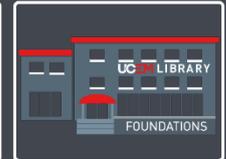


**PLEASE NOTE:** This document is over 125 pages long. Please consider the environment before printing this document. Please do not let over 100 pages put you off ... there is a contents page to help you select and easily navigate towards areas of most interest.

| BUILDING | CONSTRUCTION | DEVELOPMENT | SUPPORTED ONLINE LEARNING | EDUCATION | FINANCE | LAW |  
MANAGEMENT | PLANNING | PROPERTY | RESIDENTIAL | REAL ESTATE | RURAL | SUSTAINABILITY | VALUATION |



## Knowledge Foundations



**February 2019**

Welcome to UCEM's monthly *Knowledge Foundations* (formerly the Library e-bulletin), a compendium of news & views, research & resources relating to the educational sector and the Built Environment.

The UCEM Library aims to disseminate information, promote current awareness and share good practice, to assist in the continual professional development of all those working and aspiring to work within the Built Environment / Property and Construction industries.

We welcome news and information from readers to include in future editions - please [email us](#)

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## Other news

**[Things you need to know this week:](#)** Leisure plan unveiled for Blackpool Central - The biggest *Placemaking Resource* (incorporating *Regeneration + Renewal*) hitting the news are shared. In this article, further information is provided on a proposal combining Blackpool Central leisure attractions with food market, restaurants, hotels and homes that raise hopes for regeneration for former station site.

**[Case Study:](#)** Redesigning the workspace for creatives

**[Analysis:](#)** Building and biodiversity

**['News from the nationals'](#)** – gain access to *Estates Gazette's* daily round-up of the top property stories with quick links provided

[How has construction changed since Carillion's collapse?](#)

### Latest Data Protection News and Research:

- Latest news: [Google hit with £44m GDPR fine over ads](#),
- General Data Protection Regulation (GDPR) – [What's new](#),
- [Related resource links and further information on Data Protection](#) (Incl. Re: UCEM), and
- [Construction firms hit by massive summer surge in cyber-attacks](#)

**Please note** that there is a new **Information Governance** section in this issue **incl. Copyright and Data Protection**

**Grenfell Tower fire** – Latest developments / outcomes from

- [High-rise combustible cladding ban: What you need to know.](#)
- [Building a Safer Future: an implementation plan](#) – setting out the government's programme of work to ensure people who live in residential high-rise buildings are safe and feel safe, now and in the future.
- [GOV.UK – Information relating to the fire at Grenfell Tower.](#)

### Other News and Views cont.

[The future of retail](#) – 'Are bricks-and-mortar shops really doomed, as the headlines seem to suggest?', and 'Retail industry experts have called for a community-focused to tackling the challenges facing high streets'

CBRE: [Future of Retail 2030](#) – The retail industry is rewriting the laws of physics. Change is coming at an even faster rate each year. Explore the world in 2030 and the future of retail 2030.

[Smart Cities District Information Modelling and Management for Energy Reduction](#) – Latest research collaboration from ARUP

[Scale of UK's housing crisis revealed in damning report](#)

[Outlook for UK housing market is its worst in 20 years, surveyors warn among growing Brexit uncertainty](#)

[Construction output forecast slashed amid Brexit uncertainty](#)

[Unlocking construction's digital future: A skills plan for industry.](#)

[Concerns for Skills Shortages in the 21<sup>st</sup> Century: A Review into the Construction Industry](#)

Royal Institution of Chartered Surveyors (**RICS**) [Knowledge and research – Insights](#) cover topical issues in land, real estate, construction and infrastructure to promote understanding of the profession, aid knowledge transfer and stimulate debate.

'Housing market activity set to weaken again next year' – [RICS Latest Housing Market forecast: 2019](#)

[Tackling mental health in the workplace and wellbeing with the Construction Industry](#) – Management: What construction can learn from mental health in rugby

[Revaluing Parks and Green Spaces – Measuring their economic and wellbeing](#) – Latest research from Fields in Trust

[The Construction Index](#) – Lendlease reports gender pay gap progress

[Microsoft to pump \\$500m into affordable housing](#)

[RICS News / New HMO rules came into effect in England on 1 October 2018](#)

[Building Cost Information Service \(BCIS\) Schedules of rates updated for 2019](#)

[Selecting benchmark building prices & further information on RICS's BCIS](#)

[Access to the Joseph Rowntree Foundation's \(JRF\) latest research](#) reports and comments relating to policy and practice Incl.

[Social Housing Green Paper: JR Foundation and JR Housing Trust response](#)

[Family sharing – a minimum income standard for people in their 20s living with parents](#) - Latest research from Loughborough University and funded by JRF

[Designing a Shared Property Fund](#)

[Home Builders Federation \(HBF\) Reports and Housing Calculator](#)

**UK Property Research** – Latest research from Savills UK incl.

- [UK Property Research](#) - *Valuing Britain 2018*
- [Affordable Housing Research](#) - Publication | *Bedfordshire: Unlocking potential* – December 2018
- [Residential research](#) – Publication | *UK Housing Market Update* – January 2019
- [Commercial research](#) – Publication | *Spotlight: UK cross sector outlook* – January 2019
- [Rural Research](#) – Publication | *Spotlight: Estate benchmarking* – November 2018
- [Brexit Research](#) – dedicated pages to the implications for different sections of the UK property market of the European Union (EU) referendum result.

**Access to the House of Commons Library**, Research briefings that impact on our industries incl.

- [The Construction Industry: statistics and policy](#), and
- [Latest research briefing papers from the House of Commons Library](#)

**CIOB (Chartered Institute of Building) portal on government policy**

- [CIOB Policy Portal latest](#)
- [Construction and the Modern Slavery Act: Tackling Exploitation in the UK](#)
- [CIOB, RIBA and RICS collaborate on initiative to improve building quality](#)
- [Help shape the CIOB response to industry consultations](#)

**Latest information on Apprenticeships** incl.

- ['The exhausting road to my apprenticeship dream'](#) – BBC News apprentice tells us about her journey
- [Develop talent for your business](#) - Further information on UCEM Apprenticeship programme
- [Need to know: Apprenticeship levy FAQs](#)
- [UCEM Accreditation and recognition](#)

**Access to 'Designing Buildings Wiki'** – the construction industry knowledge base incl.

- [Further information on 'Designing Buildings Wiki', featured articles, and news,](#)
- ['Designing Buildings Wiki' presents the most popular articles in each of the 32 subject areas, and for 2018 the most read \(at over 150,000 times\) was entitled, 'Types of drawings for building design',](#)

- [Fragmentation of the UK construction industry](#),
- [A-Z of Construction industry institutes and associations](#), and
- [Student resources including a wide range of resources aimed at students of the built environment](#).

#### **The Construction Information Service - CIS Insight 01/2019 Edition –**

- [CIS Insight](#) (01/2019 Edition) – ‘Hyperloop: Shaping the future of transport’. With rapid population growth and increased demand for resources being two of the major challenges the construction industry is currently facing, PlanBEE student Will Marshall looks at how Hyperloop could potentially revolutionise the way we live, work and travel. In part one he looks at the history behind the concept and the benefits of adopting it,

as well as the latest current awareness, industry news, publications news and further reading that can be access via The Construction Information Service.

**The Smith Institute** - a leading independent ‘think tank’ which promotes progressive policies for a fairer society.

- [Information on The Smith Institute](#) (SI).

Gain access to the latest SI research reports incl.

- [Safe as Houses 2: A follow-on report into the impact of Universal Credit on Southwark Council’s housing tenants rent payment behaviour](#),
- [The hidden costs of poor-quality housing in the North](#)
- [Out of Contract: Time to move on from the ‘love in’ with outsourcing and PFI](#), and
- [#notjustforboys / women in construction](#). **Related link -**

**Women in construction: building a career in a challenging environment** - The Guardian picture essay.

#### **The National Trust (NT)**

- [National Trust - Big Issues \(incl. ‘Transport & Tourism’ and ‘Land-use & planning’\) and their views](#)
- [Why the National Trust care about planning](#)
- NT – [“Our Planning Principles”](#),
- NT – [“How we engage in planning: our role as a developer”](#),
- [Planning at a national level](#), and
- [Planning at a local level](#).

**Upcoming Revo Research:** Revo - Property. Community. (formerly the British Council of Shopping Centres)

**Foster + Partners Projects** - Further information available and access to the following:

- Image gallery,
- Sketches and drawings,
- Construction,
- Facts & Figures, and
- Project downloads.

#### **[Access the latest information on Building Information Modelling \(BIM\)](#)**

- What is Building Information Modelling?
- Gain access to **theNBS.com** website

**The National BIM (Building Information Modelling) Library** - Latest information freely available to access and download incl.

- The NBS BIM Toolkit, and NBS TV – the online video resource servicing-built environment professionals
- Free access to the **‘NBS National Building Information Modelling (BIM) Report 2018’**, and previous BIM Reports Incl. International BIM Reports in full,
- Blogging about BIM, Construction and NBS.

**[Latest news on BIM](#)** – New international BIM standard launched

[Latest library resources incl. book titles, journal articles and research](#) Incl.

Take a look at Taylor and Francis Online, FREE planning and urban design series e-books and blog

[RICS Library services and e-Resources](#), and

[UCEM Library services and e-Resources](#) Incl. Emerald Insight – access provided to the entire ‘Property Management and the Built Environment’ collection

...and finally

[A rocky road: A look at 2018’s most read stories from \*Global Construction Review\* \(GCR\) journal](#)



## Property and Construction Statistics

Latest **RICS Economic Research / Market Surveys** incl.

- [RICS UK Economy and Property Market Chart Book \(Q4, 2018\)](#) – Brexit uncertainty features heavily in survey data
- [UK Residential Market Survey](#) (December 2018)

[Barbour API’s ‘Economic and Construction Market Review’](#) – Report

[‘Prepare for distress’: Turner & Townsend warns of UK construction insolvencies](#) – *Global Construction Review*

Latest Statistics and updates from the **Office for National Statistics** (ONS) incl.

- [ONS Release calendar](#)
- [Construction Industry update](#)
- [Construction Industry highlights](#) incl. *Construction Output in Great Britain: November 2018*
- [Datasets related to the Construction Industry](#)
- [Output in the Construction Industry](#) Incl. *Short-term economic indicators commentary: June 2018* and Construction Statistics Development Programme – Work plan
- [Construction Statistics, No. 19, 2018](#) Edition (Latest release) - Latest Construction Statistics release from ONS

[Glenigan \(provider of UK construction project sales leads, market analysis, forecasting, and company intelligence\)](#) - Construction Market Analysis

[Health and Safety Executive \(HSE\) Statistics](#) – Construction industry

[GOV.UK \(incl. House of Commons Library, Briefing Papers\)](#) – Construction Statistics



## e-Journal review

- RICS [Modus](#) Digital Magazine – January 2019: The Future Shocks Issue
- Latest 2019 issue of [Contractors World International](#) (Vol 9, No 1) incl. UK: World famous landmark undergoes renovation, and Potholes – Fighting a losing battle
- Institute of Workplace and Facilities Management (IWFM) Digital Magazine – [FM World](#) January 2019: the latest issue
- The Heritage Alliance's latest [‘Heritage Update’](#) e-Bulletin (2019) – The e-Bulletin provides current awareness and industry news over a number of built environment-related fields incl. ‘Serious concerns over ‘building up’ and permitted development demolition proposals’; ‘Collaborative working in the historic environment sector’; ‘£675 million fund to transform high streets and town centres open’;

'Government launches plan to tackle air pollution', 'Resources and waste strategy for England published'; 'Have your say – Lightning Protection: Design and Installation for historic churches and buildings', and more.

- [Open Praxis](#) (published by the International Council for Open and Distance Education – ICDE) is a peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education. The latest issue published (October 2018) incl. 'Exploring the Emerging Field of Online Tertiary Education for Refugees in Protracted Situations'; 'Cheating and Plagiarism in E-Assessment: Students' Perspectives'; 'Entry Qualifications of Students as Predictors of Academic Performance in Various Degree Programs in Distance Education setting in Pakistan'; 'The relationship between Personality Traits, learning Styles and Academic performance for E-Learners'; 'Employers' Perceptions and Expectations of Professional Competency of Distance Learning Graduates: A Tracer Study of Nursing Graduates of the National Open University of Nigeria (NOUN)'; 'Experiences of Timorese language teachers in a blended Massive Open Online Course (MOOC) for Continuing Professional Development'; 'Are Private Universities Exempt from Student Concerns About Textbooks Costs? A Survey of Students at American University', and Book Review - 'Best Practices for Teaching with Emerging Technologies'.
- [EURODL \(European Journal of Open, Distance and E-Learning\)](#) is an electronic, multi-media, open access journal. It publishes the accounts of research and presents scholarly work and solid information about open, distance, online and e-learning in technology-enhanced education and training in its most inclusive definition. The latest issue incl. Liyanagunawardena T, Scalzavara S, and Williams S (2017) 'Open Badges: A systematic Review of Peer-Reviewed Publishers Literature (2011-2015)'
- Online Learning Consortium (OLC) [Online Learning Journal](#) – Latest issue published. NOTE: The MERLOT community has joined forces with the OLC (formerly Sloan-C) to expand scholarly research in the field of online education, with a merger of the Journal *Online Learning* (formerly JALN) and the *Journal of Online Learning and Teaching* (JOLT) that was previously reviewed within this e-Bulletin. The latest issue published (Vol 22, No 4 (2018)) incl. Special Issue [S.I.]: 'Introduction to The American Educational Research Association (AERA); 2018 Online Teaching and Learning (OTL) Special Interest Group (SIG)'; 'Synchronous and Asynchronous Discussions: Effects on Cooperation, Belonging, and Affect'; 'Navigating assigned roles for asynchronous online discussion: Examining participants' orientation using conversation analysis'; 'Exploring the Impact of Small-group Synchronous Discourse Sessions in Online Math Learning'; 'Quiet Participation: Investigating non-posting in online learning'; 'Characterising Super-Posters in a MOOC for Teachers' Professional Development'; 'Digging deeper into Data: The role of gateway courses in online student retention'; 'Going the Distance – Online Course Performance and Motivation of Distance-Learning Students'; 'The Effect of a Multifactor Orientation on Student Performance: Organisation Skills, Goal setting Orientation to Classroom, and Academic Support'; 'Examining Construct Validity of the Student Online Learning Readiness (SOLR) Instrument Using Confirmatory Factor Analysis'; 'Student engagement with course content and peers in synchronous online courses discussions'; 'Supporting Learning Engagement with Online Students', and more.

The [Open Education Research Hub](#) (OER Hub) research the impact of open educational resources (OER) in teaching and learning practices.

The [Directory of Open Access Journals](#) (DOAJ)

UCEM Students and Staff have full access to the Current and Archive copies of the following key academic journals:

**Taylor and Francis Online** incl.

- [Construction Management and Economics](#),
- [Building Research and Information](#), and
- [Journal of Property Research](#).

**Henry Stewart Publications** incl.

- [Corporate Real Estate](#),
- [Journal of Building Survey, Appraisal & Valuation](#), and
- [Journal of Urban Regeneration and Renewal](#).

[e-Journal review archive](#)



## [e-Book review](#)

**(Note:** Books are also reviewed within the e-Journals listed above)

- The Battle for Open: How openness won and why it doesn't feel like victory
- The new landscape of mobile learning: Redesigning education in an app-based world
- Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education
- Studying at a Distance
- Rethinking Pedagogy for a Digital Age, 2<sup>nd</sup> edition
- ADDING SOME TEC-VARIETY: 100+ Activities for Motivating and Retaining Learners Online

[The Directory of Open Access Books \(DOAB\)](#)

[Latest Published Books and Journal Titles](#)

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## Information Governance incl. © Guidance and Data Protection

[Copyright and advice from the Copyright Licensing Agency Ltd \(CLA\)](#)

- Copyright Licensing Agency - [Title search tool](#)
- Further guidance on Copyright and Digital Copyright
- 5 Ways to find images for your website
- Know your copyrights from wrongs (within Construction and Development Projects)

[Latest Copyright News](#)

[Data Protection information, advice and guidance provided incl.](#)

- Get on track with the new Data Protection rules
  - What are the aims, benefits and key changes of the new General Data Protection Regulations (GDPR)?
  - Roles: 'Controller' or 'Processor'?
  - Will GDPR matter for organisations in the UK after Brexit? and
- Further Information, Advice, and Guidance on Data Protection
- 



## Useful online resources

Incl. Open Educational Resources (OERs)

1. [Health and Safety Executive \(HSE\)](#) - Construction related information and health and safety guidance available
2. [REVO](#) – Retail. Property. Community (formerly the British Council of Shopping Centres (BCSC)). Access to further online resources incl. Research and Education

3. [The National Building Information Modelling \(BIM\) Library](#)
4. [Infabode](#) – The daily resource for **Real Estate** professionals and students
5. [Royal Institution of Chartered Surveyors \(RICS\)](#) – is an independent body committed to setting and upholding the highest standards of excellence and integrity in land, property and construction.
6. [Chartered Institute of Building \(CIOB\) Archive](#) incl. research on Innovation in construction & Sustainability
7. [Inclusive Design Hub for the Built Environment](#)
8. [Building Research Establishment \(BRE\)](#)
9. [Global Research Gateway](#): CBRE’s online resource for Real Estate Research
10. [TRUSTDR \(Trust in Digital Repositories\)](#) – a research project that examined how to effectively manage the legal aspects of digital collections of learning resources and produced a policy development toolkit.
11. [The CIT-EA Project Creating Innovative Technology – Enhanced Assessments](#) – a research project that explored ways to increase the amount of assessment in Further and Higher Education using technology.
12. [COPAC\\*](#) - COPAC exposes rare and unique research material by bringing together the catalogues of c.90 major UK and Irish Libraries. In a single search, you can discover the holdings of the UK’s national libraries (including the British Library), many University libraries, and specialist libraries. N.B. COPAC has loaded the catalogue of the Institution of Civil Engineers (ICE) Library onto COPAC.



### [UCEM e-Library portrait](#) incl. enquiry service



### [Student career service](#)

#### **UCEM Careers service**

**GoConstruct.org** – Careers website: A career in construction gives you the chance to be part of something BIG! [goconstruct.org](http://goconstruct.org) & [#ElizabethLine](https://twitter.com/ElizabethLine)

**TARGETjobs** – careers guides and directories (incl. *Property 2019* and *Engineering 2019*) for you to view online and download for future reference

#### **House building careers**

#### **Access to: RICS Careers**

[Building a better you](#) – Property Elite provide training and CPD services for property professionals, incl. students and APC candidates.

#### **LATEST: Hot Topic Highlight – Complaints Handling Procedure (CHP) – January 2019**

- Property Elite’s latest blog post takes a closer look at Complaints Handling Procedures. This updates an earlier blog article, to include the revised RICS Alternative Dispute Resolution (ADR) Mechanisms – UK & Ireland (Version 6), which takes effect from January 2019. This will be relevant for a variety of pathways, including Building Surveying, Building Control, Quantity Surveying & Construction, Residential Property, Valuation and Commercial Property.

## [UCEM's Sustainability Hub](#)



### [Useful web-links](#)

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## **Welcome to *Knowledge Foundations*** (formerly the UCEM Library *e-bulletin*)

– a compendium of news & views, research & resources



The Oxford English Dictionary defines the word '**bulletin**' as “A short official statement or broadcast summary of news” (OED, 2019).

After producing the monthly UCEM Library *e-bulletin* for exactly 6 years and building the bulletin from 7 pages at the onset (January 2013) to approximately 150 pages in December 2018, it was felt that the UCEM Centenary year was a good time to rebrand, relaunch and find a more suitable name to reflect this highly valued information service.

The initial aim of this UCEM Library current awareness service was to help keep students and staff informed of the education sector and industry specific news, share current and best practice, highlight the latest research and identify case studies that will support studying and supplement teaching and learning resources. However, over the years and upon request, the readership has now expanded and is being promoted further afield.

### **Supported online learning -**

The readership has expanded (to include Alumni) and is now promoted further afield, with the latest version appearing on the UCEM Website [UCEM Website > Home > Supported online learning > e-Library] and available at: [www.ucem.ac.uk/supported-online-learning/elibrary/](http://www.ucem.ac.uk/supported-online-learning/elibrary/) [accessed 18 January 2019]. It is also featured within a weekly Information News blog [UCEM Website > Home > News & Events > Blog > Lucy Roper's weekly Built Environment news round-up] @ [www.ucem.ac.uk/news-events/blog/](http://www.ucem.ac.uk/news-events/blog/) [accessed 25 January 2019]

“The new title of *Knowledge Foundations* reflects the importance of laying the foundations upon which to build and increase knowledge that will help you succeed and assist with continual professional development (CPD)” (Roper 2019).

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## Latest UCEM news

100 years of UCEM &

**UCEM launches Centenary Fund to support Built Environment students**



- **2019 marks the University College of Estate Management's Centenary.** Our 100<sup>th</sup> anniversary is an opportunity to showcase our heritage, celebrate our successes and share our vision for the future with a range of special events and activities as we continue to dedicate ourselves to providing access to education and training to all in the property, land and construction sectors.

- **On 14<sup>th</sup> January, UCEM was delighted to launch its centenary fund to raise money for Built Environment students.** UCEM is hoping to raise £112,500 to help an additional 100 students embark on a programme of study with the institution to access or progress their career in the Built Environment.

Awards will start to be granted from the 2019/20 academic year and applicants will be assessed on academic ability, demonstrated commitment to enter the surveying profession and financial need.

UCEM alumni, friends and supporters have already raised £2,375 in support of the campaign which is now going out more widely to the public.

UCEM Deputy Principal, Jane Fawkes said: "The celebrations for our centenary year are not only about looking back, but also looking ahead to the future of the sector and how we can use this unique opportunity the centenary affords to make a positive impact.

"Every year, many prospective students who are not being sponsored by an employer contact us and, despite a huge desire to enrol on a programme of study with us, are simply unable to afford the fees. UCEM's mission is to provide accessible and cost-effective education and whilst today we already maintain fees for our undergraduate and postgraduate programmes at well below that of competing higher education institutions, some students still require more assistance.

"We award a number of bursaries each year, but the launch of our Centenary Fund is a call to action to ask our alumni, friends and supporters in the Built Environment to contribute towards our first ever bursary fundraising campaign and help us reach our target.

"Our programmes are part-time allowing students to study around other commitments, accessible online from any location and offered at the same fee no matter where you live in the world and, it is in this spirit of widening participation that we have been bold in our ambition with the fund. I hope this will capture the sector's imagination and lead to a wider range of professionals fulfilling their potential and contributing towards a better Built Environment."

To find out more and to donate, visit [mydonate.bt.com/charities/ucem](http://mydonate.bt.com/charities/ucem) .

**Please note:** To keep up-to-date with UCEM's plans for its centenary year, keep your eye on our website for further announcements.

For more information, visit

UCEM (2019) '100 years of UCEM' [UCEM Website > Home > 100 years of UCEM] UCEM Website [online].

Available at: [www.ucem.ac.uk/100-years-of-ucem/](http://www.ucem.ac.uk/100-years-of-ucem/) [accessed 25 January 2019], and

UCEM (2019) – 'UCEM launches Centenary Fund to support Built Environment students' – 14 January [UCEM Website > Home > News & Events > News > UCEM launches Centenary Fund to support Built Environment

students] UCEM Website [online]. Available at: [www.ucem.ac.uk/news-events/news/ucem-launches-centenary-fund-to-support-built-environment-students/](http://www.ucem.ac.uk/news-events/news/ucem-launches-centenary-fund-to-support-built-environment-students/) [accessed 25 January 2019]

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## UCEM launches Level 3 Facilities Management Supervisor apprenticeship

UCEM is offering its first apprenticeship in Facilities Management (FM) this year (2019).

The first programme to launch will be the Level 3 FM Supervisor apprenticeship, with the first intake due to start in June 2019.

Facilities Management is a key service that underpins effective management of the Built Environment by creating safe, productive spaces where an organisation's workforce can thrive. The programme will be of interest to all types of organisation in the public and private sector that employ FM teams to manage their workplaces. It will also be relevant to companies that provide outsourced FM services to clients.

Apprentices who successfully complete the programme will be awarded the Institute of Workplace and Facilities Management (IWFM) Level 3 Diploma in Facilities Management and will also meet the qualifying criteria for Associate Membership of the IWFM.

Stephen Bartle, Director – Commercial and Business Development, commented: "UCE has been delivering apprenticeships for over three years and now has more than 900 apprentices on programme. In response to requests from our clients we are starting to broaden the range of programmes we offer to help them address their workforce development needs.

"Having successfully delivered the Surveying Technician apprenticeship since 2015/16, we were pleased to be judged by Ofsted during their recent monitoring visit to be making reasonable progress on all themes. We are delighted to now be working with IWFM and partner employers to offer our second Level 3 apprenticeship programme."

For further information about this apprenticeship programme click [here](#). The programme will be open for applications from 1 February 2019. Employers can register interest in this apprenticeship at any time prior to this date by contacting [businessdevelopment@ucem.ac.uk](mailto:businessdevelopment@ucem.ac.uk).

Further information is also available at:

UCEM (2019) 'UCEM launches Level 3 Facilities Management Supervisor apprenticeship', 8 January [UCEM Website > Home > News & Events > News > UCEM launches Level 3 Facilities Management Supervisor apprenticeship] UCEM Website [online]. Available at: [www.ucem.ac.uk/news-events/news/ucem-launches-level-3-facilities-management-supervisor-apprenticeship/](http://www.ucem.ac.uk/news-events/news/ucem-launches-level-3-facilities-management-supervisor-apprenticeship/) [accessed 25 January 2019]

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## Former RICS President becomes UCEM Trustee

UCEM is delighted to announce the appointment of Amanda Clark on to its Board of Trustees.

The appointment was approved at the Board's meeting last month (13 December 2018) and see the CBRE Executive Director, who served as RICS President from June 2016 until November 2017, join with immediate effect.

Amanda's 17-month tenure as RICS President was the longest anyone had been in the role in 123 years and she became the second woman to hold the post in the institution's 150-year history.

Amanda's entry into the Built Environment was as a Quantity Surveyor and she also qualified in project management before taking on a variety of roles within RICS. She is a Fellow of RICS, a Fellow of the Institution of Civil Engineers, the Institute of Management and the Royal Society of Arts and a Certified Management Consultant.

She is an advocate of advancing the cause of women within the Built Environment and was a member of the All Parliamentary Group for Excellence in the Built Environment (APGEBE) as part of a Commission of Inquiry into

Skills. She was also an Independent Expert on the Advisory Panel advising MHCLG on keeping people safe in buildings following the Grenfell Tower fire.

Commenting on her appointment, Amanda said: "I have been aware of UCEM for a long while, but more recently have admired its approach and growth, going from strength to strength. Having studied part-time for both my degrees, I know and appreciate what it's like to study in this way.

"Helping the next generation of Built Environment professionals is close to my heart, and this feels a natural fit for us both. I'm really excited to be joining UCEM ahead of its Centenary year and hope to help set the agenda for the next 100 years."

UCEM Chairman, John Gellatly, said: "I am very pleased that Amanda has accepted our offer to join the Board. Amanda brings a wealth of relevant experience to the Board and I look forward to the contributions she will provide the Trustee group, so we can benefit from her industry insight and professional knowledge.

"Amanda has already played a significant role with the institution, supporting our inaugural Skills Summit and building relationship with our Senior Leadership Team and we are delighted to formally invite her to directly contribute towards UCEM's success."

At the same meeting, a small reception was held to mark the [retirements of David Larkin and Adam Marks](#) from the Board.

For further information please visit:

UCEM (2019) '*Former RICS President becomes UCEM Trustee*', 3 January [UCEM Website > Home > News & Events > News > Two long-serving UCEM Trustees retire] UCEM Website [online]. Available at: [www.ucem.ac.uk/news-events/news/former-rics-president-becomes-ucem-trustee/](http://www.ucem.ac.uk/news-events/news/former-rics-president-becomes-ucem-trustee/) [accessed 25 January 2019]

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## **Two long-serving UCEM Trustees retire**

Two of UCEM's longest-serving Trustees have retired.

Adam Marks and David Larkin, who have been on UCEM's Board of Trustees since 2006 and 2007, respectively, have stepped down after overseeing a period of great change for the institution.

Notably, David and Adam were part of the Board who made the strategic decision for the institution to become independent from the University of Reading and apply for taught degree awarding powers (TDAP).

David and Adam attended their final Board meeting last month (13 December 2018), after which a small reception was held for them to mark the occasion.

UCEM Chairman, John Gellatly, said: "David and Adam have been a huge help since I joined a Chairman, and, on behalf of the Board, I am truly grateful for the significant service they have given to UCEM.

"David was instrumental in UCEM's move to its new office at Horizons and Adam in his role of Chair of Nominations and Governance appointed Ashley [Wheaton] as Principal. These are just a couple of their important and hugely positive actions which have changed the institution for the better and it is only right that their role in UCEM's history is recognised.

"I wish them all the best for their well-earned retirement."

David's association with UCEM first began in 1966, when he studied full-time at the institution which was then based in London. Following his studies, David began his career as a Trainee Surveyor at Debenhem Tewson and Chinnocks before spending nearly 30 years at Jones Lang Wootton. His work utilised his skills in leasing and development, valuations and property management and during his tenure as Trustee, David was Chair of the Finance Committee and service on the Nominations and Governance Committee. David was also Honorary Treasurer from March 2016.

David said: "I was very pleased and proud to serve as a Trustee and be part of the huge transformation achieved over the last few years. Not only was my passion for helping to educate tomorrow's professionals furthered but I was able to employ some of the skills developed in my career to good effect."

Adam is a Partner at Taylor Wessing LLP. His spell at Taylor Wessing has seen him serve the international law firm as Head of the Real Estate department from 2004-2007 and as Senior Partner from 2011-2017. Adam has also sat on the Executive Board and International Management Board at the firm. He has considerable experience in a wide range of commercial property issues having spent more than 30 years handling a variety of commercial and residential developments, investments, acquisitions and disposals.

Adam reflected: "To have been part of such an incredible organisation that has contributed so much to the Built Environment has been enormously rewarding and it has been both an honour and a privilege to have worked with so many talented individuals both on the Board and within UCEM itself throughout the last 12 years."

Further information is available at:

UCEM (2019) '*Two long-serving UCEM Trustees retire*', 3 January [UCEM Website > Home > News & Events > News > Two long-serving UCEM Trustees retire] UCEM Website [online]. Available at: [www.ucem.ac.uk/news-events/news/two-long-serving-ucem-trustees-retire/](http://www.ucem.ac.uk/news-events/news/two-long-serving-ucem-trustees-retire/) [accessed 25 January 2019]

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## **UCEM Tutor delivers CPD sessions to more than 200 people and meets with alumni in Nigeria**

A UCEM Tutor delivered CPD sessions to more than 200 people and networked with alumni and real estate professionals during a week-long visit to Nigeria.

Valuation Tutor, David Hunt spoke on the theme of 'International valuation approaches for the West African market' during three, day-long CPD sessions in Enugu, Lagos and the Nigerian capital, Abuja, respectively.

David also hosted an informal alumni event in Lagos attended by five former UCEM students and was invited to present an award at an industry gala in Enugu during his visit last month.

The bespoke valuation training event was created by UCEM in partnership with CEMRAAN [The College of Estate Management Reading Alumni Association of Nigeria] at the request of their Founder, Johnbull Amayaevbo, who is also the 2<sup>nd</sup> Vice President of the Nigerian Institution of Estate Surveyors and Valuers (NIESV).

David said: "It was a very worthwhile trip. It wasn't just an opportunity to provide training but also increase the exposure of our institution. I also had the privilege to learn about some local approaches to real estate management and valuation.

"I was able to meet fellow academic, as well as valuation industry, colleagues and we managed to add a small alumni event in Lagos. The alumni event was a highlight because three of the attendees were unable to attend our graduation ceremony in the UK so my visit on behalf of UCEM meant a great deal to them, especially as I taught one of them.

"I was reminded that the first real estate professionals in Nigeria studied with us. Many people I met spoke fondly of The College of Estate Management. The trip was a chance for UCEM to build on that goodwill."

UCEM will be hosting a four-day CPD event for Nigerian delegates, covering specialist valuation techniques at its Horizons HQ in Reading in April as the institution looks to further its relationship with the country's industry professionals.

Further information is available at:

UCEM (2019) '*UCEM Tutor delivers CPD sessions to more than 200 people and meets with alumni in Nigeria*', 2 January [UCEM Website > Home > News & Events > News > UCEM Tutor delivers CPD sessions to more than 200 people and meets with alumni in Nigeria] UCEM Website [online]. Available at: [www.ucem.ac.uk/news-events/news/ucem-tutor-delivers-cpd-sessions-to-more-than-200-people-and-meets-with-alumni-in-nigeria/](http://www.ucem.ac.uk/news-events/news/ucem-tutor-delivers-cpd-sessions-to-more-than-200-people-and-meets-with-alumni-in-nigeria/) [accessed 25 January 2019]

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## UCEM's widening participation ambitions boosted by acquisition of Built Environment digital network



UCEM's widening participation ambitions have been boosted after acquiring an innovative Built Environment digital network.

Building People, a social enterprise that aims to connect people traditionally not involved in the Built Environment sector with employers seeking to plug skills gap via an online platform, is now a subsidiary of UCEM.

As part of the acquisition, Building People founder, Rebecca Lovelace, has joined UCEM as an employee and will continue to advance the work of the technology platform and network, enabling and connecting an ecosystem of existing employment and skills providers with employers and jobseekers. Part-funding will now come directly from UCEM as part of the institution's every-growing focus on widening access to opportunities across the Built Environment.

UCEM Principal, Ashley Wheaton, commented: "I am delighted to welcome Rebecca and Building People to UCEM in what I believe will be a hugely positive development for all involved.

"When we held the **first Built Environment Skills Summit at UCEM at the end of 2017** (see further information below), all the stakeholders in the room were unanimous in the view that the sector lacked a coherent voice and sufficient collaboration to effect demonstrably positive change.

"I then spoke to Rebecca who told me about Building People and her vision which convinced me that the organisation could provide that missing link between real estate and construction firms and underrepresented groups within the sector. I am tremendously excited about the future for Building People and look forward to supporting Rebecca in her efforts to galvanise the sector as it modernises to meet the challenges of an insufficient skills supply and appeal to more sections of society."

Rebecca Lovelace added: "It's fantastic that UCEM has been the first to truly invest in Building People. We already have significant support across industry and more many third sector employment and skills providers, and this commitment and leadership from UEM is enabling Building People to more securely take the next steps in joining the dots across the Built Environment.

"Building People's mission is to collaboratively develop and deliver a technology platform that enables improved connections between supply and demand across the Built Environment, aggregating and adding value to providers, not duplicating nor reinventing what already exists.

"Our aim is for Building People to become the single digital marketplace to connect people to opportunities across the sector in the UK. We don't need to create yet another initiative; we need to enable and improve connections, drive traffic and add value to what already exists and make it easier for jobseekers and employers to come together. It is by enabling this collaboration that we can truly create one single marketplace that connects supply with demand.

Many groups and organisation are already supporters of Building People, including the Royal Institution of Chartered Surveyors (RICS), the Chartered Institute of Building (CIOB), Landsec, the Federation of Master Builders (FMB) and Women into Construction.

Sir John Armit, Chairman of the City & Guilds Group, said: "The industry needs to improve its productivity and we need to find a better way to recruit, develop and retain the talent of diverse individuals.

"The ambition of Building People to create a technology platform and collaborative network, which enables connections and seeks to reduce skills shortages across the Built Environment, is timely and needed."

To find out more about **Building People** and get involved, visit Building People website [online]. Further information is available at: <https://buildingpeople.org.uk/> [accessed 25 January 2019]

UCEM (2018) 'UCEM's widening participation ambitions boosted by acquisition of Built Environment digital network', 21 November [UCEM Website > Home > News & Events > News > UCEM's widening participation ambitions boosted by acquisition of Built Environment digital network] UCEM Website [online]. Available at: [www.ucem.ac.uk/news-events/news/ucems-widening-participation-ambitions-boosted-by-acquisition-of-built-environment-digital-network/](http://www.ucem.ac.uk/news-events/news/ucems-widening-participation-ambitions-boosted-by-acquisition-of-built-environment-digital-network/) [accessed 25 January 2019]

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**Other UCEM News stories incl.**

**UCEM's Built Environment Skills Summit report demands the UK rises to the challenge**



For further detail and access to the report in full, please visit,

UCEM (2018) 'UCEM's Built Environment Skills Summit report demands the UK rises to the challenge', 31 January [UCEM Website > Home > News & Events > News > UCEM's Built Environment Skills Summit report demands the UK rises to the challenge] UCEM Website [online]. Available at: [www.ucem.ac.uk/news-events/news/ucems-built-environment-skills-summit-report/](http://www.ucem.ac.uk/news-events/news/ucems-built-environment-skills-summit-report/) [accessed 25 January 2019]

**Online, Flipped, Blended Approach to Apprenticeship Education: A case study of UCEM's Surveying Technician Diploma**

'Online, Flipped, Blended Approach to Apprenticeship Education: A case study of UCEM's Surveying Technician Diploma', presented at the World Conference on Online Learning [online], 6-19 Oct, Toronto. For further information on this innovative project and to access the case study in full please [Click Here](#). [accessed 25 January 2019].

**University College of Estate Management features in 'Masterminds of Construction' in association with ITN productions and the CIOB**

UCEM (2017) 'University College of Estate Management features in 'Masterminds of Construction' in association with ITN productions and the CIOB', 13 December [UCEM Website > Home > News & Events > News > UCEM features in 'Masterminds of Construction' in association with ITN Productions and the CIOB] UCEM Website [online]. Available at: [www.ucem.ac.uk/news-events/news/ucems-centenary-activity-boosted-by-national-lottery-grant/](http://www.ucem.ac.uk/news-events/news/ucems-centenary-activity-boosted-by-national-lottery-grant/) [accessed 25 January 2019]

**See also:** CIOB – Chartered Institute of Building website [online]. Available at [www.ciob.org/masterminds-construction](http://www.ciob.org/masterminds-construction) [accessed 25 January 2019]

**N.B. Please refer to additional information provided later within this issue.**

**UCEM website @ [www.ucem.ac.uk](http://www.ucem.ac.uk)**

**& why not follow us on our newly updated Social Media sites also incl.**



<https://twitter.com/StudyUCEM> [accessed 25 January 2019],



<https://www.facebook.com/StudyUCEM> [accessed 25 January 2019],



<https://www.linkedin.com/company/university-college-of-estate-management> [accessed 25 January 2019],



<https://www.youtube.com/user/cembuildingfutures/videos> [accessed 25 January 2019].

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## Other news

### Things you need to know this week: Leisure plan unveiled for Blackpool Central

'Things you need to know this week' is a weekly article produced by Placemaking Resource and incorporating *Regeneration + Renewal* magazine and highlights the biggest placemaking stories from the past seven days (see below mentioned publication date). In this article, further information is provided on a proposal combining Blackpool Central leisure attractions with food market, restaurants, hotels and homes that raises hopes for regeneration for former station site.

This and other stories incl.

- **Developer Nikal and Media Invest Entertainment (MIE) have unveiled plans to create a leisure scheme in Blackpool, incorporating Virtual Reality experiences and visitor attractions inspired by a work by Swiss author Erich Von Daniken.** The plans for Blackpool Central could also provide hotels, restaurants, a food market, event square, homes and parking space. The masterplan for the scheme is inspired by Von Daniken's 1968 book, *Chariots of The Gods*, which explores alien encounters and ancient civilisations. Blackpool City Council is working with the developers on the project, which could create around 1,000 jobs. The Blackpool Central site was once home to the resort's mail rail station and was in the past targeted unsuccessfully for development of a super-casino. Blackpool Council leader, councillor Simon Blackburn, said, "Over more than fifty years, many ideas for this site have come and gone. The difference this time is that we have worked very hard with our fantastic partners at Nikal and MIE for almost two years to create a scheme that is not just aspirational, but highly deliverable."
- **Derby City Council has announced plans to back the development of a four-storey office building in its city centre in a bid to help drive city business growth.** The council has agreed a deal with developer Wilson Bowden, which owns the site, and a third party that has agreed to take a lease on the building at One Cathedral Green. Council investment enables simultaneous construction on the same site of new offices for the Unite the Union, which is buying an adjoining building for a new regional headquarters. The entire scheme is expected to create up to 180 jobs. Cabinet members for regeneration momentum and unlocking the potential to create a vibrant workplace environment for an expanding business community." The Cathedral Green regeneration has already seen the city's former Magistrates' Court converted to SME business space, with homes and a hotel constructed alongside.
- **Pub chains Greene King and Marstons were found to be the largest branded retail occupiers of listed buildings in an assessment of 50 of England's cities and town centres.** The findings come from the annual audit of England's heritage produced by heritage body Historic England on behalf of cross-sectoral committee for England, the Historic Environment Forum. The Heritage counts report found that the number of listed buildings occupied by business has increased by 18 per cent since 2012, from 10,456 to 12,353. The increase is in part due to the rise in the number of branded retailers choosing to trade from listed buildings, says the report, which is available via the below provided source link.
- **A Manchester City Council review of housing affordability has advised that the council should be building 3,000 homes in the next decade, with equal numbers for social rent, affordable rent and shared ownership.** Overall, the policy paper says that the city needs more than 30,000 homes over the next decade, with equal numbers of social rent, affordable rent and shared ownership. Overall, the policy paper says that the city needs more than 30,000 homes over the next decade, almost half of which should be on affordable tenures. The policy paper looks at ways of increasing supply of affordable tenures. The policy paper looks at ways of increasing supply of affordable homes in the face of challenges posed by population growth and austerity.
- **Croydon Council will next month (see publication date) launch a search for designers for a new public space in the south London borough.** The council is looking for architects and landscape architects to help create Fair Field, a new public space in the heart of Croydon's new cultural quarter.

- **London's UCL (University College London) has launched its Bartlett Real Estate Institute (BREI), a research group aiming to rethink traditional views of real estate.** Yolande Barnes, former lead in global research at property consultant Savills, is chair of BREI.

#### Related Links:

Historic England (n.d.) 'On behalf of the Historic Environment Forum – Heritage Counts' [online]. Available at: <https://historicengland.org.uk/research/heritage-counts/> [accessed 4 January 2019]

Source: **Placemaking Resource** (incorporating *Regeneration + Renewal*), Smit, J., 11 December 2018, *Need to know: Leisure plan unveiled for Blackpool Central* [online]. Further information available at: [www.placemakingresource.com/article/1520961/need-know-leisure-plan-unveiled-blackpool-central](http://www.placemakingresource.com/article/1520961/need-know-leisure-plan-unveiled-blackpool-central) [accessed 25 January 2019]

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## Case study: Redesigning the workspace for creatives

- Refurbishment of a canal side building is the first phase in the development of a west London hub for SMEs, finds the author of this article.

More than 40 office schemes are under development across the capital, according to the London Office Crane Survey, published this month (see publication date) by consultant Deloitte Real Estate. "This is the highest level of office space brought to market in over 14 years," Mike Cracknell, director in the firm's capital projects advisory team says, and almost seven million square feet are expected to be completed before the end of this year.

This new space is notable for attracting the new breed of businesses: the providers of co-working space for start-ups as well as major names in technology, media and telecoms. Whether large or small, creative and innovative occupiers are demanding more imaginative design in their office space. Out have gone the ubiquitous carpeted corporate interiors, and in have come more flexible and distinctive workspaces, where table tennis tables and cafes are just as important as desks.

One of the best known of the new genre of workspaces is the Alphabeta Building in London's Old Street, a shared workspace that brings together the financial and creative, media and tech industries. The architect behind the project, Studio RHE, has just completed the first phase of another addition to London's creative workspace market, The Gramophone Works, in Ladbroke Grove.

### Challenge

The Gramophone Works' debut phase has involved the refurbishment of a 1920s building on a site directly beside the Grand Union Canal. The building has had a varied history, as a canal loading dock and storage shed, as well as a record factory.

Over the years the five storey Art Deco building had become internally congested by sub-division into smaller spaces and had fallen into a state of some dilapidation. It now sits at the heart of a broader regeneration being carried out by developer Resolution Property.

### The solution

Refurbishment has stripped away the building's sub-divisions and now showcases its muscular concrete structure. Open spaces with high ceilings, exposed services and raw painted brickwork give flexibility and volume in a distinctive industrial aesthetic. These are factors that have maximum appeal for the building's target market: small to medium enterprises in the creative sector. The building has 1,858 square metres of office space in all, with floor plates ranging from 55-460 square metres.

As a workplace for creatives, the building appropriately features its own creative additions, including a glazed atrium and a timber reception desk backed by neon signage. Amenities provided for workers include cycle storage, changing rooms with shower facilities and four external terraces.

Building facades have been repaired, repainted and internally insulated to improve thermal efficiency. New windows match the old, apart from in the reception area where aluminium-framed contemporary windows have been adopted.

Resolution Property's head of UK asset management James Baker describes the end result as a "vibrant new office campus", but the overall project is by no means over. A second phase is set to deliver a new five-storey building alongside, which will generate a further 6,000 square metres of workspace with roof terraces and a canal side café.

Source: **Placemaking Resource** (incorporating *Regeneration + Renewal*), Smit J, 28 November 2018, *Case Study: Redesigning the workspace for creatives* [online]. Further information available at:

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## Analysis: [Building and biodiversity](#)

- Nature is often seen as a constraint on construction, but proposals to require development to deliver a biodiversity net gain to seek to change that, writes the author of this article.

The principles that development activity should leave a site's biodiversity in better shape than it was before the bulldozers arrived has gathered business momentum as well as policy backing. Major housebuilding names, such as Berkeley Group, have voluntarily enhanced the biodiversity of sites, and infrastructure provider Balfour Beatty earlier this year called for biodiversity net gain to be made obligatory under UK planning policies.

Now, under a government consultation, delivering biodiversity net gain could become mandatory for development requiring planning permission. The consultation sets out plans to require developers to enhance biodiversity onsite by 10 per cent. For those developers unable to meet this requirement, the alternative could be payment of a tariff of £9,000 to £15,000 per biodiversity unit, a measure based on a site's habitat distinctiveness, conditions and area.

The proposals are set out in Net gain: consultation proposals, which were issued by the Department for Environment, Food and Rural Affairs (DEFRA) earlier this month (see publication date). They follow on from the ambitions set out in the government's 25-year environment plan published at the start of the year and the objectives of the National Planning Policy Framework (NPPF). **Please note:** The consultation runs until **10 February 2019**.

### Minimum benchmark

Biodiversity net gain might be familiar to several developers, but the current proposals could still have a negative impact on the viability of some sites. "The key challenge is the mandatory 10 per cent level of the net gain," says Nick Graham, associate director, planning at Turley. "It could be challenging for large and complex sites, for smaller sensitive sites, and even for sites which are of low value but which, for example, depend upon access via a small but sensitive piece of land."

The decision to consult on a mandatory approach follows a pilot programme by DEFRA and local authorities, including Warwickshire County Council. Evaluation of the pilot found that a voluntary approach was not enough to deliver net environment benefits or a level playing field for developers. The pilot programme saw DEFRA and Natural England develop biodiversity units as part of a common approach to assessing biodiversity losses and compensation. "There are a range of models and approaches out there, including the use of qualitative assessment by experienced ecologists," explains Graham. "It is logical to have a common metric or standard approach, but there are concerns that the proposals could have a detrimental effect on development viability by setting a high 10 per cent minimum benchmark."

### Improved communication

For some in the development sector there may need to be a shift in mindset, away from seeing biodiversity as a constraint on activity, to recognising it as an asset that is actively protected and improved. Morgan Taylor, associate with sustainability and environmental consultancy Greengage Environmental, points out that this shift needs to occur at all levels of the development team. "Many have picked up on biodiversity net gain and begun to embed it within policy, design and approach. However, there is still a challenge in delivery," he says. "Translating corporate strategy or policy/legislative change to the project manager level on the ground will require improved communication and education throughout development teams."

Every site's habitat is individual, but rural sites could present demands, Taylor adds. "Given the nature of the calculation methodology, the most challenging sites are likely to be rural, particularly if opportunities for compensatory and enhanced habitat coverage are constrained on site, requiring offset arrangements."

For many sites, however, there may be little difference. "Generally, application of biodiversity net gain should not drastically change the approach already taken when surveying and assessing a site and then designing mitigation, compensation and enhancement measure within a scheme," says Taylor. "It will, however, provide a robust framework against which to secure and quantify these measures, meaning, if anything, it could make certain elements of ecological design simpler."

And the result is likely to be better places and homes, for the environment as well as for people. There is an increasing amount of research around the economic and others benefits of natural capital, which encompasses features such as green roofs, green space, trees and other natural assets. “Creating biodiverse and functional spaces, prioritising the embedding of nature where people live, will have myriad benefits, not least through improvements in people’s health and wellbeing,” says Taylor. “Well designed green infrastructure, which could be maximised when taking the biodiversity net gain approach, is acknowledged as being crucial for new development, providing ecosystem services and the resilience needed to address risks posed by a changing climate.”

Further information is available at:

Smit J (2018), ‘*Analysis: Building and biodiversity*’, Placemaking Resource, Incorporating *Regeneration and Renewal* [online], 11 December. Available at: [www.placemakingresource.com/article/1520980/analysis-building-biodiversity](http://www.placemakingresource.com/article/1520980/analysis-building-biodiversity) [accessed 25 January 2019]

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### **Estates Gazette’s News from the nationals’**

– Access to a daily round-up of the top property stories with quick links ...

*Estates Gazette* (2017) ‘News from the nationals’ [online]. Further information is available at: [www.egi.co.uk/news/](http://www.egi.co.uk/news/) [accessed 25 January 2019]

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### **How has construction changed since Carillion’s collapse?**

- One year on from the shock liquidation of Carillion, what has the construction industry learned? The author of this article spoke to senior figures from across the industry.

It was one of the UK’s biggest corporate failures, Carillion’s collapse on 15 January 2018, under a £1.5bn pile of debt, sent shockwaves through the industry.

In the wake of the firm’s liquidation, two Commons select committees – the Business, Enterprise and Industrial Strategy (BEIS) Committee and the Work and Pensions Committee – joined forces to investigate what went wrong, hauling ministers, former Carillion directors, and accountants up for public interrogation.

**Paul Morrell: Carillion’s ‘insane’ business model:** But what has construction – and government – learned since the momentous events of January 2018?

Paul Morrell former chief government construction adviser told *CM*: “For government, I would say the main lesson to be learned is **how to manage relationships with major suppliers**.

“Carillion will be a rich source of case studies for years to come, on matters from mis-pricing of capital, through to some of the more primitive aspects of the insolvency process (with the bones picked clean by “advisers”). There are signs that some of the more fundamental issues such as auditing are being addressed, but too often such inquiries are reduced to looking for someone to blame, rather than addressing the structural reasons for bad outcomes.”

Carillion’s notorious payment terms have been under scrutiny, and Morrell reveals he discussed this issue with former CEO Richard Howson shortly after his appointment.

The Cabinet Office promised late last year (see publication date) to bar contractors who fail to demonstrate prompt payment to their suppliers from public work by autumn 2019. But will that change main contractors’ attitudes towards payment terms?

Ann Bentley, global director of Rider Levett Bucknall who sits on the Construction Leadership Council board, says: “Build UK has recently published a payment terms table for its (mainly contractor) members. There are certainly several contractors who pay very quickly. But there is substantial feedback from the tier 2 and 3 contractors that they are still effectively funding the construction sector.”

Phil Wade, director at developer First Base, adds: “I am not sure attitudes are changing. We continue to see instances of other contractors being exposed for **poor payment terms** (for example, Kier), so maybe Carillion has just raised awareness. Those who have always behaved well don’t get so recognised, which is a shame.”

In his capacity as a client, however, Wade won't tolerate poor payment practices. "I wouldn't employ anyone with poor payment terms to the trades. Why would we? We pay on time and we expected everyone else to do the same to make sure we have motivated and well-rewarded teams," he says.

Clients like Wade may be the exception rather than the rule though, believes Mark Beard, chairman of Beard and vice president of the CIOB. "Customer are taking more interest in the relationship contractors have with their supply chain, but very few customers have a full **understanding of the dynamics of contracting and subcontracting** and their comments tend to be superficial," he says.

### **Business model reappraisals**

Beard points to some of the shrewder contractors reappraising their business models in the wake of Carillion's demise.

"I believe the more informed contractors realised a little while ago that doing less and increasingly offloading the risk was going to make them less relevant and limit the margin they could make for their role in the project," he says.

"I believe this realization has led to a small number of contractors taking on more risk in return for slightly higher margins. However, most contractors are still trying to pass as much risk down **the supply chain** as possible and this is one of the reasons they are struggling to command margins of much greater than 1%"

Meanwhile, Peter Caplehorn, deputy chief executive, Construction Products Association, sees the need for **more stability in the construction market** if business models are ever really going to change significantly.

"The main contractor business model is primarily based upon merely **winning projects and managing them**," he argues. "It uses **subcontracting of activity, fixed costs and risk to deal with volatility in demand in the industry**. If demand were more stable in the long-term then it would be able to justify investing in the ability to do the projects themselves but until then it is highly unlikely."

Richard Saxon, consultant and former chairman of BDP, has noticed a shift since Carillion's demise. "I do see more clients and contractors interested in construction management for complex projects, and in longer-term supplier relationships since Carillion's collapse," he comments.

One procurement development since Carillion's demise has been the abandonment of **PFI and its successor PF2**, which Chancellor Philip Hammond ruled out using for future government contracts in his autumn budget.

However, another form of **private financing** may yet re-emerge.

Further information and links to the below list of CM's top stories for the year available via the below mentioned source:

Gerrard N (2019) 'How has construction changed since Carillion's collapse?', *Construction Manager* [online], 6 January. Available at: [www.constructionmanagemagazine.com/insight/how-has-construction-changed-carillions-collapse/](http://www.constructionmanagemagazine.com/insight/how-has-construction-changed-carillions-collapse/) [accessed 25 January 2019]

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## **Latest Data Protection News & Research:**

### **[Google hit with £44m GDPR fine over ads](#)**

- Google has been fined 50 million euros (£44m) by the French data regulator CNIL, for a breach of the EU's data protection rules.

CNIL said It had levied the record fine for "lack of transparency, inadequate information and lack of valid consent regarding ads personalization". The regulator said it judged that people were not "sufficiently informed" about how Google collected data to personalise advertising.

In a statement, Google said it was "studying the decision" to determine its next steps. Complaints against Google were filed in May 2018 by two privacy rights groups: noyb and La Quadrature du Net (LQDN). The first complaint under the EU's new General Data Protection Regulation (GDPR) was filed on 25 May 2018, the day the legislation took effect. The groups claimed Google did not have a valid legal basis to process user data for ad personalization, as mandated by the GDPR.

Although Google's European headquarters is in Ireland, it was decided among the authorities that the case would be handled by the French data regulator, since the Irish watchdog did not have "decision-making power" over its Android operating system and its services.

### **A lack of transparency**

The regulator said Google had not obtained clear consent to process data because “essential information” was “disseminated across several documents”.

“The relevant information is accessible after several steps only, implying sometimes up to five or six actions,” the regulator said.

“Users are not able to fully understand the extent of the processing operations carried out by Google.”

### **No valid consent**

Additionally, the regulator said Google had failed to obtain a valid legal basis to process user data. “The information on processing operations for the ads personalization is diluted in several documents and does not enable the user to be aware of their extent,” it said. It said the option to personalise ads was “pre-ticked” when creating an account, which did not respect the GDPR rules.

“The user gives his or her consent in full, for all the processing operations purposes carried out by Google based on this consent (ads personalisation, speech recognition, etc).

“However, the GDPR provides that the consent is ‘specific’ only if it is given distinctly for each purpose.”

The regulator said it was Google’s “utmost responsibility to comply with the obligations on the matter”.

In a statement, Google said: “People expect high standards of transparency and control from us. We’re deeply committed to meeting those expectations and the consent requirements of the GDPR.”

Fox C (2019) ‘Google hit with £44m GDPR fine over ads’ BBC News, Technology [online], 21 January 2019.

Available at: [www.bbc.co.uk/news/technology-46944696](http://www.bbc.co.uk/news/technology-46944696) [accessed 25 January 2019]

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## **GDPR - What’s new?**

The guide to the GDPR explains the provisions of the GDPR to help organisation comply with its requirements. The Information Commissioner’s Office website has a **What’s new** section that is updated on a regular basis to highlight and link to any changes as they occur, for example:

**December 2018** – ICO have published a ‘Guide to Data Protection’, combining existing guidance on the GDPR and law enforcement regimes with new guidance explaining some basic concepts, how the DPA 2018 works, and which regime applies. They have expanded guidance on scope and key definitions in the guide to law enforcement processing. They have also expanded guidance on contracts, published guidance on controllers and processors and published detailed guidance on controllers and processors and contracts and liabilities.

**November 2018** - ICO published detailed guidance on encryption,

**September 2018** – ICO expanded their guidance on exemptions,

**August 2018** – ICO expanded guidance on International transfers.

Further information is available at:

ICO (2019) ‘What’s new’ [ICO Website > Home > For organisations > Guide to the General Data Protection Regulation (GDPR) ] ICO [online]. Available at: <https://ico.org.uk/for-organisations/guide-to-the-general-data-protection-regulation-gdpr/whats-new/> [accessed 25 January 2019]

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## **Related resource links and further information on Data Protection:**

### **Data laws made fit for the digital age**

- Tough new data protection laws, The General Data Protection Regulation (GDPR) became law on 25 May 2018.

Source: GOV.UK, Department for Digital, Culture, Media and Sport, and Margot James MP (2018), News Story: ‘Data laws made fit for the digital age’ [online]. Available at: [www.gov.uk/government/news/data-laws-made-fit-for-the-digital-age?utm\\_source=792e6351-26af-4550-abe1-85b07a4a97a5&utm\\_medium=email&utm\\_campaign=govuk-notifications&utm\\_content=immediate](http://www.gov.uk/government/news/data-laws-made-fit-for-the-digital-age?utm_source=792e6351-26af-4550-abe1-85b07a4a97a5&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate) [accessed 25 January 2019].

### **Democracy disrupted? Personal information and political influence**

– Latest report from the Information Commissioner’s Office (ICO)

Source: ICO (2018) *Democracy disrupted? Personal information and political influence* – Latest report from the Information Commissioner’s Office (ICO) [online]. Available at: <https://ico.org.uk/> [accessed 25 January 2019]

## What is GDPR?

**WATCH: What is GDPR? [video].** Available via the above-mentioned link. Duration **[1m 53s]** and via *Source:* Fox C (2019) 'Google hit with £44m GDPR fine over ads' BBC News, Technology [online], 21 January 2019. Available at: [www.bbc.co.uk/news/technology-46944696](http://www.bbc.co.uk/news/technology-46944696) [accessed 25 January 2019]

## In relation to UCEM

**In relation to UCEM, we are fully committed to protecting the rights of individuals to have their personal data collected and stored securely and used for only legitimate and lawful purposes for which their consent has been sought. UCEM complies with the Data Protection Act 1998 and complies with General Data Protection Regulation 2016 that became part of UK law from May 2018.**

**To access the UCEM full Data Protection Policy and its Privacy Policy that sets out the type of information UCEM collect and how it is used, can be accessed via the UCEM website and available at: UCEM Website > Home > About UCEM > UCEM policies @ [www.ucem.ac.uk/about-ucem/ucem-policies/](http://www.ucem.ac.uk/about-ucem/ucem-policies/) [accessed 25 January 2019]**

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## Construction firms hit by massive summer surge in cyber-attacks

- Malicious attacks on company systems running Microsoft's Internet Information Services (IIS) rose from 2,000 in the first quarter of 2018 to 1.7 million in the second, with the construction industry one of the five sectors most targeted, a report claims.

The analysis from eSentire, a cybersecurity consultant based in Cambridge, Ontario, looked at attacks on servers running IIS, as well as Oracle WebLogic and the Drupal open-source platform. It found that the attacks mostly originated from servers with Chinese IP addresses.

Sectors most affected were construction, accounting, biotechnology, marketing and real estate, which eSentire said was caused by the prevalence of vulnerable, outdated IT systems.

Hackers gained control of systems to create mayhem by accessing confidential information, unleashing ransomware, or planting "cryptominers" on servers to force them to use their CPUs to create digital currency. A common attack uses the Emotet trojan to obtain enough financial information to access a company's bank account.

The programs are often found in malicious documents or URL links inside the body of an email, sometimes disguised as an invoice or PDF attachment. About half of Emotet attacks used files with "invoice", "payment", or "account" in their name.

Construction was the least likely sector to be attacked out of the five, but it was the principal target for phishing attacks, often based on the DocuSign app for handling digital invoices, as well as fake Office 365 and Dropbox files.

The severity of this kind of "credential theft" depends on what service the username and password were being used to log onto. The theft of DocuSign or Dropbox credentials being particularly dangerous, especially if the same credentials are used to access more than one service.

The report comments that companies can take simple steps to reduce their exposure to cyber-attacks.

It says: "The reason attacks continue is because most organisations have internal systems they hesitate to update for fear it will change or break something.

"These systems are sometimes accidentally exposed to background internet radiation which includes a firehose of exploits. Or, they are unaware that a patch if necessary or underestimate the gravity of failing to patch.

"This is an easily rectifiable problem that lingers for many."

Further information and access to download the report is available at:

GCR Staff (2018) 'Construction firms hit by massive summer surge in cyber-attacks' [online], Global Construction Review, CIOB. Further information is available at: [www.globalconstructionreview.com/trends/construction-firms-hit-massive-summer-surge-cyber/](http://www.globalconstructionreview.com/trends/construction-firms-hit-massive-summer-surge-cyber/) [accessed 25 January 2019]

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## Grenfell Tower - Latest developments / outcomes from

### High-rise combustible cladding ban: What you need to know

- This year (see publication date), at Party Conferences, Secretary of State, James Brokenshire announced a ban on combustible cladding materials used on all new buildings higher than 18m, a proposal that was welcomed by RICS as taking yet another step in the right direction.

On Thursday 29 November 2018, the Government laid the regulations – **The Building (Amendment) Regulations SI 2018/1230** - before Parliament implementing the ban on the external use of combustible materials in external walls of high-rise buildings, defined as relevant building meaning a building with a storey (not including roof-top plan areas or any storey consisting exclusively of plant rooms) at least 18 metres above ground level and which – (i) contains one or more dwellings; (ii) contains an institution; or (iii) contains a room for residential purposes (excluding any room in a hostel, hotel or boarding house).

RICS have been working closely with the Ministry of Housing, Communities and Local Government (MHCLG) to help drive change in the sector following the Grenfell Fire, and will continue to do so to ensure this ban is brought forward for existing high-risk buildings which are under 18m high. The latest amendments are set to come into force on 21 December 2018, but MHCLG accept that there needs to be a transitional period.

Therefore, the Amendment Regulations will not apply where a building notice or an initial notice has been given to a local authority before this date. MHCLG also state that building work that starts the day before the 21 December 2018 or is started within a period of two months beginning on that day will work within the regulations which were in place prior to this update.

For clarity, MHCLG have defined a commencement of work as:

- Excavation for strip or trench foundations or for pad footings;
- Digging out and preparation of ground for raft foundations;
- Vibrofloatation (stone columns) piling, boring for piles or pile driving;
- Drainage work specific to the building(s) concerned.

For those who are working on several buildings on a site, the commencement of work is based on the first building within the application which will determine whether all building work can take advantages of the transitional provisions and not just the individual building.

Further information is available at:

RICS (2018) 'High-rise combustible cladding ban: What you need to know', [RICS UK website > Home > News & Insight > Latest News > High-rise combustible cladding ban: What you need to know] RICS [online], 3 December. Available at: [www.rics.org/uk/news-insight/latest-news/news-opinion/high-rise-combustible-cladding-ban-what-you-need-to-know/](http://www.rics.org/uk/news-insight/latest-news/news-opinion/high-rise-combustible-cladding-ban-what-you-need-to-know/) [accessed 25 January 2019]

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## **Building a safer future: an implementation plan**

On 18 December 2018, Secretary of State for Communities James Brokenshire announced the creation of a stronger and more effective regulatory framework to improve building safety, implementing the recommendations made by Dame Judith Hackitt following the Grenfell Tower fire. This will mean tougher sanctions for those who disregard residents' safety, more rigorous standards and guidance for those undertaking building work, and a stronger voice for residents.

**Building a safer future: an implementation plan**, commits the government to a programme of reform which will:

- Take forward all the recommendations in the Hackitt review,
- Create a more effective regulatory and accountability framework,
- Introduce clearer standards and guidance, including a new Standards Committee to advise on construction product and system standards and regulations.
- Put residents at the heart of the new system of building safety, empowering them with more effective routes for engagement and redress.
- Help create culture change and a more responsible building industry, from design, through to construction and management.

The government will establish a Joint Regulators' Group to trial elements of a new regulatory system, bringing existing regulatory bodies together to work with developers and building owners, residents and tenants. This will include; Local Authority Building Control, The National Fire Chiefs Council, the Health & Safety Executive, the Local Government Association which includes the fire and rescue authorities, and others as required.

A full review of fire safety guidance within the building regulations has also been launched. The government has issued a call for evidence and is also inviting views from residents and those who manage buildings about how to improve fire and structural safety.

James Brokenshire MP said; “My plan for stronger, tougher rules will make sure there is no hiding place for those who flout building safety rules. By making people responsible and more accountable for safety, we will create a more rigorous system so residents will always have peace of mind that they are safe in their own homes.”

LABC Chief Executive, Paul Overall said: “The Secretary of State has shown leadership by recognising the need for systemic reform of the building safety regime by implementing Dame Judith Hackitt recommendations in full. LABC has pledged to provide full support to the new Joint Regulators Group and we are ready with resources, people and expertise”.

Chris Blythe OBE, Chief Executive of the CIOB, said; “There is a lot in this comprehensive document which supports the work the CIOB and their partner organisation – including RICS and RIBA – have been doing. We will now examine and absorb the detail in the document, pull together all the different aspects of quality in construction that we have been working on, and work with government on the next steps to create and implement the framework they want in place to ensure building safety now and in the future.”

From the below mentioned link you can also gain access to further information and access to the report in full:

Designing Buildings Wiki (2018) ‘Changes to Approved Document B following Hackitt review’ [online], last edited 21 December 2018. Further information is available at:

[www.designingbuildings.co.uk/wiki/Building\\_a\\_safer\\_future:\\_an\\_implementation\\_plan](http://www.designingbuildings.co.uk/wiki/Building_a_safer_future:_an_implementation_plan) [accessed 25 January 2019]

#### **Related Links:**

Designing Buildings Wiki (2018) ‘Building a safer future: an implementation plan’ [online], last edited 21 December 2018. Further information is available at:

[www.designingbuildings.co.uk/wiki/Changes\\_to\\_Approved\\_Document\\_B\\_following\\_the\\_Hackitt\\_review](http://www.designingbuildings.co.uk/wiki/Changes_to_Approved_Document_B_following_the_Hackitt_review) [accessed 25 January 2019]

GOV.UK (2018) Policy paper: ‘Building a safer future: an implementation plan’ [GOV.UK > Home > Housing, local and community > Planning and building > Building regulation] GOV.UK [online]. Available at:

[www.gov.uk/government/publications/building-a-safer-future-an-implementation-plan](http://www.gov.uk/government/publications/building-a-safer-future-an-implementation-plan) [accessed 25 January 2019]

GOV.UK, Ministry of Housing, Communities & Local Government (2018) Guidance: ‘The Building Safety Programme’ [GOV.UK > Home > Housing, local and community > Planning and building > Building regulations] GOV.UK [online], 21 November. Available at: [www.gov.uk/guidance/the-building-safety-programme?utm\\_source=8a4a7b08-6d99-4bf7-aa85-3cb1e66b45da&utm\\_medium=email&utm\\_campaign=govuk-notifications&utm\\_content=immediate](http://www.gov.uk/guidance/the-building-safety-programme?utm_source=8a4a7b08-6d99-4bf7-aa85-3cb1e66b45da&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate) [accessed 25 January 2019]

[www.gov.uk/guidance/the-building-safety-programme?utm\\_source=8a4a7b08-6d99-4bf7-aa85-3cb1e66b45da&utm\\_medium=email&utm\\_campaign=govuk-notifications&utm\\_content=immediate](http://www.gov.uk/guidance/the-building-safety-programme?utm_source=8a4a7b08-6d99-4bf7-aa85-3cb1e66b45da&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate) [accessed 25 January 2019]

Heritage Update e-Bulletin [online], Issue **No 383**, 30 November 2018, The Heritage Alliance. Available at:

[www.theheritagealliance.org.uk/heritage-update](http://www.theheritagealliance.org.uk/heritage-update) [accessed 25 January 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at:

[www.theheritagealliance.org.uk/update/](http://www.theheritagealliance.org.uk/update/) [accessed 25 January 2019].

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#### **NOTE: Use of Wikipedia as a reference site:**

Wikipedia and use of other Wiki are increasingly being used by people in the academic community, as an easy source of information about anything and everything. However, citation of Wikipedia may not be considered acceptable, because Wikipedia is not a creditable source.

It is important to note that whilst Wikipedia may be one of the Web’s most popular reference sites, it is not classed as a credible resource because anyone can be a contributor to the website.

This can be avoided by following two simple rules:

- Remember that any encyclopaedia (which includes Wikipedia and any other wiki) can be a good starting point for research, and not an ending point.
- An encyclopaedia can be good for getting a general understanding of a subject before you extend your study of the subject further. But you then must consider the subject in more depth using books, journal articles and other appropriate and credible resources. What you find in these other sources of information will be more

detailed, more precise, and more carefully reasoned than the summary you found in an encyclopaedia. The sources you reference/cite in your work will therefore be these more detailed sources you have used.

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## Collection: Grenfell Tower

### GOV.UK – [Information relating to the fire at Grenfell Tower](#)

- Information relating to the fire at Grenfell Tower. Contents incl. Announcements; Letters; and **Guidance** incl.

- Advice for building owners: large-scale wall system test,
- Grenfell Recovery Taskforce: terms of reference,
- Explanatory note on large scale cladding systems testing,
- Grenfell Tower fire: handling immigration cases,
- Explanatory note on safety checks and testing,
- HB Bulletin U3/2017: Discretionary Housing Payments to former residents of Grenfell Tower, and
- Grenfell Tower fire: support for people affected (see below).

Government information incl.

- **Support for people affected by the Grenfell Tower fire**

Information about the support available for people affected by the Grenfell Tower fire can be found (as mentioned above) – *Source*: GOV.UK (2017), Department for Communities and Local Government and Home Office, Park of: Grenfell Tower, published: 15 June 2017, last updated: 1 August 2017, *Guidance*: *Grenfell Tower fire: support for people affected* [online]. Available at: [www.gov.uk/guidance/grenfell-tower-fire-june-2017-support-for-people-affected](http://www.gov.uk/guidance/grenfell-tower-fire-june-2017-support-for-people-affected) [accessed 25 January 2019]

- Information about the support available for people affected by the Grenfell Tower fire on 14 June 2017 incl. Urgent advice and support for victims, their friends and families; Updates; Mental health support; Mental health and emotional support for young people; Bereavement support; Physical injuries; Air quality and smoke exposure; Business support advice; Pet support; and How you can help.

*Source*: GOV.UK (2017), Department for Communities and Local Government, published: 22 June 2017, last updated: 20 July 2017, *Collection*: *Grenfell Tower* [online]. Available at: [www.gov.uk/government/collections/grenfell-tower](http://www.gov.uk/government/collections/grenfell-tower) [accessed 25 January 2019]

#### Further Related Links:

GOV.UK, Ministry of Housing, Communities and Local Government (2018) *Independent report - Independent Review of Building Regulations and Fire Safety: final report* [online], 17 May. Available at: [www.gov.uk/government/publications/independent-review-of-building-regulations-and-fire-safety-final-report](http://www.gov.uk/government/publications/independent-review-of-building-regulations-and-fire-safety-final-report) [accessed 25 January 2019]

RICS – *Working together, we will right the wrongs of Grenfell* - Clark A, RICS President 2016/17 (2017) *Working together, we will right the wrongs of Grenfell* [online]. Available at: [www.rics.org/uk/news/news-insight/comment/working-together-we-will-right-the-wrongs-of-grenfell/](http://www.rics.org/uk/news/news-insight/comment/working-together-we-will-right-the-wrongs-of-grenfell/) [accessed 25 January 2019]

RICS guidance on existing high-rise buildings fire safety - RICS (2017) *RICS guidance on existing high-rise buildings fire safety* [online]. Available at: [www.rics.org/uk/news/news-insight/comment/rics-guidance-on-existing-high-rise-buildings-fire-safety/](http://www.rics.org/uk/news/news-insight/comment/rics-guidance-on-existing-high-rise-buildings-fire-safety/) [accessed 25 January 2019]

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## Retail industry experts have called for a community-focused approach to tackling the challenges facing high streets

Retail industry experts have called for a community-focused approach to tackling the challenges facing high streets and town centres in a new report. This gives practical recommendations to reinvigorate town centres by creating a community hub which, alongside retail, includes leisure and social services and more residential property.

Panel chair Sir John Timpson called for an ‘Upside Down Government’ approach which would empower local leaders to implement their plans to reinvent their town centres. They would be supported with expert advice from a Town Centres Task Force and funding from the government’s Future High Streets Fund. Another recommendation includes calling on local communities to celebrate their town centres with a ‘National High Street Perfect Day’ to tackle litter and graffiti so people can take pride in their local shopping centres. Source: Heritage Update e-Bulletin [online], Issue **No 385**, 17 January 2019, The Heritage Alliance. Available at: [www.theheritagealliance.org.uk/heritage-update](http://www.theheritagealliance.org.uk/heritage-update) [accessed 25 January 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: [www.theheritagealliance.org.uk/update/](http://www.theheritagealliance.org.uk/update/) [accessed 25 January 2019].

#### **Related link:**

Further information (including the challenges of Wages, Brexit, Consumer spending, Online shopping, Competition, and High-street retailers) can be found at:

Telegraph (2018) ‘**The Future of Retail**’, *The Telegraph* [online]. Available at: [www.telegraph.co.uk/business/tips-for-the-future/future-of-retail/#.W78La1ah7EY.mailto](http://www.telegraph.co.uk/business/tips-for-the-future/future-of-retail/#.W78La1ah7EY.mailto) [accessed 25 January 2019]

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### **Future of Retail 2030 – [Latest research from CBRE](#)**

- The retail industry is rewriting the laws of physics. Change is coming at an ever faster rate each year and 2030 will be upon us before we know it. Explore the world in 2030 and the future of retail via the source web-provided below.

40 Insights From Retail 2030 are looked at in more detail within observations and outcomes for each of the following:

- (1)** Enhanced interaction will drive engagement through virtual and augmented reality, holograms and haptic, **(2)** City centers will be vehicle-free, **(3)** Open-air retail centers will grow in popularity,
- (4)** 3-D printing will serve as invisible inventory, **(5)** The circular economy will become part of the way people interact with businesses, **(6)** Specialized stores will re-emerge as a force in retail,
- (7)** There will be a resurgence of local markets and experiences, **(8)** A dynamic shift will occur in how goods are produced, **(9)** Trust and transparency will become objective – and measurable,
- (10)** Physical stores will be reimagined via digital technology, **(11)** Retailers will focus on understanding customer emotions, **(12)** Consumers will expect their loyalty to be rewarded,
- (13)** Storefronts will become virtual stores after hours, **(14)** Health-focused offers and products will be much more prominent, **(15)** Personal enhancement services will require more space,
- (16)** Delivery will be when and where you want it – without you even realizing it, **(17)** The High Street will look very different to today, **(18)** Customization will become the new loyalty,
- (19)** The sharing economy will be commonplace, **(20)** Curating the offer will be a basic expectation, **(21)** Returns will be made simple, **(22)** Delivery tracking information will be precise,
- (23)** Flexible lease structures will be far more common, **(24)** Consumers will be able to experience a purchase before making payment,
- (25)** The focus of gas stations globally will shift as they become important mini-logistics hubs and as fueling needs, **(26)** Smartphones will no longer exist, but mobile commerce will increase,
- (27)** Independent stores and food and beverage operators will be more prevalent, **(28)** The traditional in-store physical point of purchase will disappear,
- (29)** Fitting rooms help as opposed to hinder the shopping experience, **(30)** Wellness establishments will flow in number, **(31)** Shopping centers will become simply “centers”,
- (32)** Retail will be leisure, **(33)** The power of prediction has enabled decision making to be outsourced to machines, **(34)** Personal ownership of cars has dramatically reduced,
- (35)** Customer experiences are specific not generic, **(36)** Buying what you want, where and how you want is the norm, **(37)** Stores have become showrooms and experiential brand centers,
- (38)** Pure play is no longer an important part of retail, **(39)** Robotics and automation will replace many jobs in the retail sector, and **(40)** Competition for people’s disposable income has increased.

Further information and access to read online or download the above-mentioned research report is available at CBRE (n.d.) *Future of Retail 2030* [online]. Further information is available at: <https://www.cbre.com/united%20states/real-estate-services/real-estate-industries/retail-services/retail-innovation-hub/retail-2030> [accessed 25 January 2019]

#### **Related Links:**

Access essential **CBRE Research and Reports**, date and insights @ CBRE via the CBRE website, *Research and Reports* [online]. Available at: [www.cbre.com/research-and-reports](http://www.cbre.com/research-and-reports) [accessed 25 January 2019], Incl.

CBRE (2018) *Global Real Estate Market Outlook 2018* [online]. Further information is available at: [www.cbre.com/research-and-reports/Global-Real-Estate-Market-Outlook-2018](http://www.cbre.com/research-and-reports/Global-Real-Estate-Market-Outlook-2018) [accessed 25 January 2019]

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### **Smart Cities District Information Modelling and Management for Energy Reduction – Latest research collaboration from ARUP**

ICT is recognised as being a key player against climate change: smart meters, big data, and actuators can efficiently control the energy supply networks (smart thermal and electricity grids).

A District Information Model and Management system for Energy Reduction (DIMMER) was developed by Arup to present real-time energy consumption and production (electricity, heating, cooling), analytics, and **visualisation** on a web-based interface incorporating 3D models and interactive client applications.

The objective of DIMMER was to make district energy production and consumption information available using a natural, visual, web-service oriented interface to increase energy efficiency, load balancing, and energy market flexibility. The results from research undertaken by Arup enhanced 3D modelling, visualization, and user interaction technologies by enabling user profiling and feedback to promote energy efficient behaviours.

The DIMMER project focused on unlocking the potential of smart technologies. Integration of heterogeneous monitoring systems exploiting middleware technologies was an important aspect of the DIMMER project. Virtual models of districts were created, based on **BIM**, to enable simulation and interactive visualization of energy flows.

The project was validated through case studies in Turin and Manchester. Building user feedback information was correlated with opportunities for energy optimization. Analysis was performed to enable personalized energy tariff plans and their evaluation based on profiled use of energy. A set of client applications were developed for three types of users: energy suppliers, public administrators, and energy and building managers.

#### **Project Impact**

The DIMMER project provided many benefits for our client and has impacted on European research. It allowed Facilities Managers to access building information by means of 3D models to enhance building automation and control, in order to enable energy savings.

The project also informed users by making them aware of the importance of their energy-related actions.

Variable/personalized energy tariffs were supported and promoted through the project, as well as utility load balancing and optimization of energy efficiency measures. The DIMMER project provided a system for verifying energy saving potential and cost-effectiveness of novel demand-side technologies.

Arup (n.d.) *Smart Cities District Information Modelling and Management for Energy Reduction* [online], London: Arup. Available at: [www.arup.com/projects/smart-cities-district-information-modelling-and-management-for-energy-reduction](http://www.arup.com/projects/smart-cities-district-information-modelling-and-management-for-energy-reduction) [accessed 25 January 2019]

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### **Scale of UK's housing crisis revealed in damning report**

- A report says a 20-year building programme is needed to provide social housing to millions of people who do not currently qualify.

**More than three million new social homes are required to solve Britain's housing crisis, according to research carried out by Shelter.**

The charity's report recommends a 20-year building programme that would provide social housing to millions of people who fail to qualify under the current system.

Sixteen independent commissioners were appointed to examine the housing shortage, including politicians, an architect, and Grenfell fire survivor Ed Daffern.

The commissioners heard from hundreds of social tenants and thousands of members of the public about the problems faced. They concluded that an extra 1.27 million homes are needed for those in the greatest need, including homeless people, people with a disability or long-term illness, or those in very poor conditions. Another 1.17 million homes are needed for so called “trapped renters”, according to the report which says half of young people will never be able to afford to buy their own home. And a further 690,000 extra homes are needed for older private renters who struggle to afford household costs after retirement.

“The housing crisis is chronic,” says Kate Henderson, chief executive of the National Housing Federation. “It affects every single part of the country from coastal communities to rural villages to many of our inner-city areas.

“This report reveals the scale of the crisis but also puts forward a series of very positive recommendations about the role of social housing in meeting our national housing need and solving the housing crisis.”

Communities Secretary James Brokenshire said: “Providing quality and fair social housing is a priority for this government.

“We’ve asked tenants across the country for their views and the thousands of responses we’ve received will help us design the future of social housing.

“Our ambitious £9bn affordable homes programme will deliver 250,000 homes by 2022, including homes for social rent.

“A further £2bn of long-term funding has already been committed beyond that as part of a ten-year home building programme through to 2028.

“We’re also giving councils extra freedom to build the social homes their communities need and expect.”

From the source and web-link provided below you can also gain direct access to further information/news items relating to ‘**Housing**’.

Source: Johnson B (2019) ‘Scale of UK’s housing crisis revealed in damning report’, Sky News UK [online] 8 January. Available at: <https://news.sky.com/story/britain-needs-millions-more-new-social-homes-charity-report-says-11601520> [accessed 25 January 2019]

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## [Outlook for UK housing market it its worse in 20 years, surveyors warn among growing Brexit uncertainty](#)

- The slump is expected to continue as buyers are put off by Brexit uncertainty
- Research was conducted by the Royal Institution of Chartered Surveyors
- Office for National Statistics found house prices rose by 2.8% up to November (2018)

Hopes for the housing market have hit a 20-year low, a study has found, after sales slowed to a crawl. And surveyors across the country expect the slump to continue as buyers are put off by Brexit uncertainty, research by the **Royal Institution of Chartered Surveyors (RICS)** has found.

In December 2018, most surveyors reported declining house prices for the fourth month in a row. RICS recorded a difference of 28 percentage points between the number of surveyors who believe sales volumes will continue to fall and those who expect them to go up – the biggest gap since records began in 1998. It means property professionals in every region do not expect the market to recover soon.

It came as separate figures from the **Office for National Statistics** showed that house prices across Britain rose by just 2.8 per cent in the year to November, with the average property valued at £231,000.

Simon Rubinsohn, RICS chief economics, said: ‘It is hardly a surprise, with ongoing uncertainty about the path to Brexit dominating the news agenda, that even allowing for the normal patterns around the Christmas holiday, buyer interest in purchasing property in December was subdued. ‘This is also very clearly reflected in a worsening trend in near-term sales expectations’. Last month (see publication date) the Bank of England warned that demand was falling and the supply of new homes as also low.

Extra stamp duty on more expensive homes is also thought to have stalled sales, by making it harder for families to move up the property ladder and out of cheaper, smaller homes usually snapped up by first-time buyers.

Data from the Land Registry shows a collapse in the number of transactions. There were 59,691 sales in England in September (2018) – down by almost a quarter from the same month in 2017. In London, the number fell 22

per cent to 6,438. The capital – for decades a centre of red-hot growth – was the only region to experience an outright fall in property prices in the year to November, with a 0.7 per cent drop to an average £473,000. The West Midlands was the fastest-growing region for prices, with the average property's value up 4.6 per cent as £197,000. East Midlands homes were the next best performers, with growth of 4.4 per cent and an average value of £192,000. In England the average value rose by 2.6 per cent to £247,000. Wales saw growth of 5.5 per cent to £161,000; Scottish prices rose 2.9 per cent to £151,000; and Northern Ireland prices were up 4.8 per cent at £135,000.

Kevin Roberts, of Legal & General Mortgage Club, said some buyers and seller were taking a 'wait-and-see approach when it comes to the property market'.

Further information is available at:

Burton J (2019) 'Outlook for UK housing market is its worst in 20 years, surveyors warn among growing Brexit uncertainty', *Daily Mail* [online], 17 January. Available at: [www.dailymail.co.uk/news/article-6600485/Outlook-UK-housing-market-worst-20-years.html](http://www.dailymail.co.uk/news/article-6600485/Outlook-UK-housing-market-worst-20-years.html) [accessed 25 January 2019]

#### **Related Link:**

RICS (2018) 'Brexit Deal Agreement: What happens next?', [RICS UK website > Home > News & Insight > Latest News > Brexit > Brexit Deal Agreement: What happens next?] RICS [online], 11 December. Available at: [www.rics.org/uk/news-insight/latest-news/brexit/brexit-deal-agreement-what-happens-next/](http://www.rics.org/uk/news-insight/latest-news/brexit/brexit-deal-agreement-what-happens-next/) [accessed 25 January 2019]

**Please note:** Within *Knowledge Foundations* there is a 'Property and Construction Statistics' section containing further statistics from the Royal Institution of Chartered Surveyors (RICS), Office for National Statistics (ONS) and other organisations.

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## **Construction output forecast slashed amid Brexit uncertainty**

- The Construction Products Association (CPA) has downgraded its forecast for the UK construction industry's output this year, amid uncertainty about the manner of the UK's withdrawal from the European Union (EU). Six months ago (see publication date), the CPA expected output to rise by 2.3% in 2019, however is has now cut that figure to just 0.3%. However, the uncertainty could drive growth in certain sub-sectors of the industry, the CPA said.

In its latest growth forecast, it predicted that the private housing and infrastructure sectors would remain the primary drivers of industry growth in the coming years. Housebuilding output is forecast to rise by 2% in 2019 and 1% in 2020, driven by the Government's Help to Buy scheme, which continues until March 2023.

Meanwhile, the infrastructure sector is expected to reach its highest level on record in 2019 driven by large project such as HS2, Thames Tideway and Hinkley Point C. Growth is forecast to rise by 8.8% in 2019 and 7.7% in 2020.

But the commercial sector, particularly felt in the offices sub-sector, is expected to see significant declines. Investors have signalled the uncertainty is too high to justify significant up-front investment, and output is expected to fall 20% in 2019.

Nonetheless, the CPA said Brexit-related uncertainties could help drive growth in other sub-sectors. The harbours sector is expected to grow by 12% in 2019 and 10% in 2020 and could be higher if works on improvements and expansions of ports need to be carried out. If there are major issues around Brexit, warehousing will be another sector that benefits from increased activity due to demand for storage and stockpiling facilities. Following growth of 20% in 2018, construction activity in this sector is forecast to rise a further 10% in 2019 and 2020.

Noble Francis, economics director at the Construction Products Association said: "Fortunes for construction depend greatly on which sector firms are operating in.

"Our latest construction forecasts are conditional on either a revised Brexit Withdrawal being agreed with the EU and getting through UK Parliament or a delay to Article 50. However, even if this occurs, the uncertainty surrounding Brexit is clearly affecting the construction industry in areas that require high investment up front for a long-term rate of return such as commercial offices.

"The construction of prime residential apartments and industrial factories is also being affected greatly by the high and rising Brexit uncertainty. However, whilst this uncertainty adversely affects some construction sectors, it provides a boost to others. The warehouses and harbours are relatively small sub-sectors, but both are

growing rapidly and are expected to enjoy double-digit growth this year as the demand rises for storage and trading facilities.”

Francis also warned, following the news that work on Hitachi’s Wylfa Newydd nuclear power station had been suspended, that “government inability” to deliver major projects to time and budget remained a “major concern” when it came to infrastructure growth.

“If the government can improve its delivery of major infrastructure projects, then construction output could outperform our forecasts in spite of Brexit uncertainty. However, it is a big ‘if’”, he added.

For further information, please, visit

Source: Gerrard N (2019) ‘Construction output forecast slashed amid Brexit uncertainty’, *Construction Manager* [online], 20 January. Available at: <http://www.constructionmanagermagazine.com/news/output-forecast-downgraded-amid-brexit-uncertainty/> [accessed 25 January 2019]

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## Unlocking construction’s digital future: A skills plan for industry

- Digital technology has the potential to transform construction – but only if the sector is equipped with the right skills and knowledge.

This report shows how modern technologies can raise productivity, increase efficiency and help attract people to the sector. Without widespread digital adoption, construction risks being marginalised and losing a generation of new talent to other sectors.

The report found that:

- Digital construction is a catch-all term understood to mean different things by different people. This lack of consensus is part of the problem: industry should be clear on what digital construction means, how best to use it and what skills employees have – and will need.
- Much of technology being used is not at the cutting edge of what is available. Innovative technology – if used at all – is generally limited to small pilots or trials. Sharing best practice will help industry evolve understanding of the value of digital and the skills and training needed.
- Data and its effective collection, communication and management are central to digital transformation.
- Technology-specific skills aren’t the problem – the broader skills and competencies at various levels need to be addressed.
- Following the green paper’s findings, CITB is committing to a programme of support, including targeted funding, to help meet the skills challenge to enable sector digitalisation.

For further information, access to the reports and a video that highlights digital best practice in the industry, please visit

Source: CITB (2018) ‘Unlocking construction’s digital future: A skills plan for industry’ [online]. Available at: [www.citb.co.uk/research-and-insight/innovation-technology/unlocking-constructions-digital-future/](http://www.citb.co.uk/research-and-insight/innovation-technology/unlocking-constructions-digital-future/) [accessed 25 January 2019]

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## Concerns for Skills Shortages in the 21<sup>st</sup> Century: A Review into the Construction Industry, Australia

The Australian Construction Industry is now facing skills shortages in all trades. As an industry focused on the skills of its workforce, there is now concern the Australian standard in quality, workmanship, and productivity will inhibit both at national and international level.

This research paper addresses the underlying, influential factors concerning skills shortages in the Australian construction industry. The influential factors addressed include funding, training statistics, employer expectations, financial limitations, Industrial Relations and immigration. Given the reference to skills shortages within the industry, and documented in related literature, if skills shortages are to continue to exist, their effect will impact upon the overall performance of construction companies throughout Australia.

UTS ePRESS is Open Access and therefore to access this article in full, please visit -

Source: Watson M (2007) ‘Concerns for Skills Shortages in the 21<sup>st</sup> Century: A Review into the Construction Industry, Australia’, *Construction Economics and Building*, Vol 7 (1) [online], UTS ePress. Available at: <http://epress.lib.uts.edu.au/journals/index.php/AJCEB/article/view/2977> [accessed 25 January 2019]



Please note: This work is licensed under a [Creative Commons Attribution 4.0 International License](https://creativecommons.org/licenses/by/4.0/).

#### Related Links:

Parker K, Head of Business Improvement at Town and Country Housing Group (2018) **'Mind the gap!' – managing the skills gap in the construction sector'**, LinkedIn [online]. Available at: [www.linkedin.com/pulse/mind-gap-managing-skills-construction-sector-katherine-parker/](https://www.linkedin.com/pulse/mind-gap-managing-skills-construction-sector-katherine-parker/) [accessed 25 January 2019]

Deloitte (2017) **'Soft skills for business success'** [online]. Available at: [www2.deloitte.com/au/en/pages/economics/articles/soft-skills-business-success.html](https://www2.deloitte.com/au/en/pages/economics/articles/soft-skills-business-success.html) [accessed 25 January 2019]

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### [RICS Research](#)

Within the Royal Institution of Chartered Surveyors (RICS) Research they recognise the huge importance of property, land, construction and the built environment. Through their market surveys and research, they aim to advance the thinking of the professional and raise the profile of our industry.

**RICS Research** cover topical issues in land, real-estate, construction and infrastructure in order to promote understanding of the profession, aid knowledge transfer and stimulate debate.

As of **9 January 2019**, the topics covered include.

- **Residential property** – incl. International Evidence Review on Housing Taxation
- **Facilities & management** – incl. Big data: a new revolution in the UK facilities management sector
- **Environment** – incl. Cities, health and well-being
- **Rural** – incl. Global Trends in Data Capture and Management
- **Property management** – incl. The implications of extending permitted development rights in England
- **Property technology** – incl. BIM for Project Managers
- **Planning & development** – incl. Leadership in the UK rail industry
- **Quantity Surveying & construction** – incl. Impact of extending developments rights to office-to-residential change
- **Sustainability** – incl. Changing priorities in investor decision-making: the sustainability agenda
- **Commercial property** – incl. Perspectives on Global Real Estate Investment
- **Infrastructure** – incl. Valuing Unregistered Land
- **Valuations** – incl. The Future of Valuations

To access and download the above-mentioned reports, please visit

Source: RICS website > Home > News & Insight > Research (2018) [online]. Available at: [www.rics.org/uk/news-insight/research/](https://www.rics.org/uk/news-insight/research/) [accessed 25 January 2019]

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### **Market forecasts – Housing Market forecast: 2019**

To access and download **Analysis and discussion papers**, please visit

Source: RICS website > Home > News & Insight > Research > Market surveys > **Analysis and discussion papers**  
Incl.

RICS (2019) *Housing Market forecast: 2019* [online]. Available at: [www.rics.org/uk/news-insight/research/market-surveys/analysis-and-discussion-papers/](https://www.rics.org/uk/news-insight/research/market-surveys/analysis-and-discussion-papers/) [accessed 25 January 2019]

- Overall sales volumes to weaken by around 5% in 2019
- National house price growth likely to come to a standstill but supply shortage should negate outright falls
- Rental growth to accelerate slightly during 2019 due to declining availability of homes for let

The UK residential market has continued to struggle against several well-established obstacles over the past year. Affordability issues, a lack of stock, political uncertainty and the prospect of further interest rate rises have

all been factors seemingly weighing on activity to varying degrees. Sentiment has remained relatively subdued as a result, with new buyer demand tailing-off gradually throughout much of 2018. Sales volumes have also weakened during the past twelve months, while house price inflation has continued to cool at the national level. In the near term at least, we remain convinced that activity trends will break away from the recent sluggish picture.

Nevertheless, tackling the challenge around supply and affordability remains a primary goal on the domestic political agenda, with the prime minister announcing a scrapping of the local authority lending cap for housebuilding in the latest attempt to boost delivery. Just how effective the policy measure will be in lifting housebuilding remains to be seen, but, either way, the government still faces a huge task in reaching their 300,000 new homes per year target 2022.

**Recent improvement in housebuilding has slowed** – Although total net additions to the housing stock across England have now improved in five successive years, the rate of progress over the past year has slowed significantly. Indeed, 222,000 housing units were added in 2017/18, an increase of only 2% from the previous year's figure of 217,000. This represents the smallest yearly pick-up since the recovery started, following a low point of 125,000 net additions in 2012-13.

Perhaps of greater concern is the fact that growth has slowed noticeably even before surpassing the level hit prior to the onset of the global financial crisis. Furthermore, a closer look at the statistics reveals that this has occurred even though additional dwellings created through change of use (such as conversion from office to residential) were 68% higher last year than in 2007/8. From this point on, arriving at the government's target of delivering 300,000 new houses per annum will require a further 35% increase. In fairness, the timeliest figures available suggest growth may have regained some momentum, with nearly 240,000 Energy Performance Certificates issued for new dwellings in the twelve months to Q3 2018 (up 9% on this time last year). However, the fact that construction started on 160,000 new homes in the year to Q2 2018, down 3% annually, does not bode particularly well for housing delivery prospect further out (see publication date).

Further information and access to the report in full is available at:

Source: RICS (2019) *Housing Market forecast: 2019* [RICS website > Home > News & Insight > Research > Market surveys > **Analysis and discussion papers**] RICS [online]. Available at: [www.rics.org/uk/news-insight/research/market-surveys/analysis-and-discussion-papers/](http://www.rics.org/uk/news-insight/research/market-surveys/analysis-and-discussion-papers/) [accessed 25 January 2019]

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## Tackling mental health and wellbeing within the construction industry



*Builder&Engineer* (2017)

### Management – [What construction can learn from mental health in rugby](#)

- Site workers are more likely to die from suicide than falls from height. John Warne, head of divisional marketing at RMD Kwikform, on how construction can learn from a rugby club mental health initiative. Until recently I was only vaguely aware of mental health and the problem of suicide until a friend took his own life and the statistics became very real. James was 40 when he died. I had played rugby with him for over 30 years. We knew he had a complicated life but we all do, and it was very easy when he tried to open up occasionally to say, “don’t be so soft” or “don’t worry – it’ll get better soon”.

News of James’s death was hard for all of us to take and at the rugby club we wanted to do something positive in his memory. So, we started working with a charity called It Takes Balls to Talk, working with sports clubs to break down the stigma around mental health. We train members of the team at the rugby club to be listening mates, to support and to talk about things that men traditionally aren’t very good at talking about.

Since James's death I've become more aware of the issues around suicide and particularly about suicide in construction workers. Perhaps a site is similar to a rugby club changing room – with the bravado and banter and the inability of men to talk to other men about the problems they're facing. These are things we need to start breaking down.

**“The Samaritans say that site workers are more than six times likely to die from suicide than from falling at height. That's an awful statistic. And something as an industry we need to change.”**

That's why for me having balls to talk is a really important topic and one as men we need to challenge head on. I believe by breaking down the stigma of mental health, by showing that men can listen and talk about their emotional side, we will start to make a positive impact.

**#starttheconversation**

**Ittakesballstotalk.com**

Further information is available at:

Warne J (2019) 'Management – What construction can learn from mental health in rugby', *Construction Manager* [online], 10 January. Available at: [www.constructionmanagermagazine.com/management/rugby-club-moves-tackle-mental-health-stigma/](http://www.constructionmanagermagazine.com/management/rugby-club-moves-tackle-mental-health-stigma/) [accessed 25 January 2019]

**Related links incl.:**

SCN – *Scottish Construction New* (2018) 'New app launched to support mental health of construction workers' [online]. Available at: [www.scottishconstructionnow.com/article/new-app-launched-to-support-mental-health-of-construction-workers](http://www.scottishconstructionnow.com/article/new-app-launched-to-support-mental-health-of-construction-workers) [accessed 25 January 2019]

Gerrard N (2018) 'Laing O'Rourke and Skanska in occupational health pilot', *Construction Manager* [online], 5 October. Available at: [www.constructionmanagermagazine.com/news/laing-orourke-skanska-and-morgan-sindall-new-occup/](http://www.constructionmanagermagazine.com/news/laing-orourke-skanska-and-morgan-sindall-new-occup/) [accessed 25 January 2019]

RICS Research (2018), *Cities, health and wellbeing*. [RICS website > Home > News & Insight > Research > Cities, health and well-being]. RICS [online]. Available at: [www.rics.org/uk/news-insight/research/insights/cities-health-and-well-being/](http://www.rics.org/uk/news-insight/research/insights/cities-health-and-well-being/) [accessed 25 January 2019]

Kirkup A (2018) 'Tackling mental health in the workplace' [online], 2 February 2018. Further information is available at: [www.ice.org.uk/news-and-insight/the-civil-engineer/february-2018/tackling-mental-health-in-the-workplace](http://www.ice.org.uk/news-and-insight/the-civil-engineer/february-2018/tackling-mental-health-in-the-workplace) [accessed 25 January 2019]

Buckland D (2017) 'Building up wellbeing in construction' [online], *Future of Construction*. Available at: <https://futureofconstruction.org/> [accessed 25 January 2019]

**Designing Buildings.co.uk Wiki**, (2017) 'Building up wellbeing in construction' [online], last edited 29 August 2017. Further information is available at: [www.designingbuildings.co.uk/wiki/Home\\_and](http://www.designingbuildings.co.uk/wiki/Home_and) [www.designingbuildings.co.uk/wiki/Building\\_up\\_wellbeing\\_in\\_construction](http://www.designingbuildings.co.uk/wiki/Building_up_wellbeing_in_construction) [accessed 25 January 2019]

Sharman J, NBS (2017), '*Mental health and the construction industry*' [online]. Available via the Construction Information Service (CIS) Short Article 05/2017 (accessed via the VLE e-Library, Athens, and IHS Information Services)

Cameron, C., (2017), '**Mind matters: Protecting the wellbeing of your workforce by raising awareness of mental health**' [online], and available at: [www.builderandengineer.co.uk/feature/mind-matters-protect-wellbeing-your-workforce-raising-awareness-mental-health](http://www.builderandengineer.co.uk/feature/mind-matters-protect-wellbeing-your-workforce-raising-awareness-mental-health) [accessed 26 November 2017], *Building&Engineer*, 7 March.

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## Revaluing Parks and Green Spaces – [Measuring their economic and wellbeing](#)

*Revaluing Parks and Green Spaces: Measuring their economic and wellbeing value to individuals* is research conducted in line with HM Treasury best practice in valuing non-market goods. This research provides a robust economic valuation of parks and green spaces in the UK as well as valuing improvements in health and wellbeing associated with their frequent use. It is the first study on parks and green spaces to apply welfare weighting methodology allowing for more informed evidence-based policy decisions.

### Headline Findings

- **The Total Economic Value to an individual is £30.24 per year** (£2.52 per month), and includes benefits gained from using their local park of green space and non-use benefits such as preservation of parks for future generations.

- **The Wellbeing Value associated with the frequent use of local parks and green spaces is worth £34.2 billion per year** to the entire UK adult population
- **Parks and green spaces are estimated to save the NHS around £111 million per year** based solely on a reduction in GP visits and excluding any additional savings from prescribing or referrals

To access and download the report, visit

Source: Watt E, Lawton Dr. R [et al.] (2018) Revaluing Parks and Green Spaces – Measuring their economic and wellbeing [online], London: Fields in Trust. Available at: [www.fieldsintrust.org/research](http://www.fieldsintrust.org/research) [accessed 25 January 2019]

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## [Lendlease reports gender pay gap progress](#)

- Lendlease is on a drive to recruit more women as it strives to eliminate its gender pay gap.

Lendlease’s 2018 gender pay gap report reveals that the pay gap in its construction business has reduced from 30.4% to 29.6% in the past year.

Lendlease’s workforce is now 67% men and 33% women, up from 29% female last year (see publication date).

Two years ago, Lendlease introduced a 50:50 gender target for graduate recruitment and as a result has increased the number of female graduates from 38% in 2015 to 62% in 2018.

Between 2016 and 2018, it has increased female hires – across all grades – from 29% to 47%.

The ratio of women in executive roles has gone from 24% to 31% in the last two years.

		2018		2017	
		Mean	Median	Mean	Median
Lendlease Construction	Hourly fixed pay gap	29.6%	35.8%	30.4%	33.0%
	Bonus gap	64.2%	49.2%	65.4%	51.4%
Lendlease UK	Hourly fixed pay gap	17.4%	26.6%	19.2%	26.5%
	Bonus gap	44.5%	39.1%	46.2%	39.3%

Source: The Construction Index (2018), ‘Lendlease reports gender pay gap progress’, *The Construction Index* [online]. Available at: [www.theconstructionindex.co.uk/news/view/lendlease-reports-gender-pay-gap-progress](http://www.theconstructionindex.co.uk/news/view/lendlease-reports-gender-pay-gap-progress) [accessed 25 January 2019].

Lendlease Europe chief executive Dan Labbad said: “Last year the gap in our Construction business was 30.4% and we’re now at 29.6%. A small change, however, we currently employ 14.6% women in core Construction roles – 3.6% higher than participants of the Paydata Building & Civil Engineering survey – a fact we’re proud of. And, even more promisingly, the overall average gender pay gap for our UK business is 17.4%. This reflects an improvement of 2% when compared with 2017.

“Of course, we recognise that we have a long way to go. We need to continue to be proactive and execute a long-term strategy to close the gender pay gap.”

He added: “We need more women in senior roles at Lendlease. Of course, recruiting, hiring, training, and promoting women at this level isn’t something we can achieve overnight, but we are committed to making it happen.”

Further information is available via

The Construction Index (2018), ‘Lendlease reports gender pay gap progress’, *The Construction Index* [online].

Available at: [www.theconstructionindex.co.uk/news/view/lendlease-reports-gender-pay-gap-progress](http://www.theconstructionindex.co.uk/news/view/lendlease-reports-gender-pay-gap-progress) [accessed 25 January 2019].

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## [Microsoft to pump \\$500m into affordable housing](#)

- In a bid to tackle a housing crisis which the success of companies like itself helped create, software behemoth Microsoft will invest half a billion dollars in affordable homes provision in the Puget Sound region of Washington State, where its headquarters are.

On Wednesday (16 January) the company said housing costs have risen across the region, which includes Seattle, Microsoft's home of Redmond, and nine smaller cities, hitting people on lower and middle incomes. Thanks to the success of Microsoft, Amazon, and other tech companies in the area, Puget Sound has become the sixth most expensive region in the country, where a 21% increase in jobs since 2011 has been met with only a 13% increase in housing units, Microsoft said after an eight-month probe into the issue.

While technical staff of these firms may enjoy housing security, teachers, nurses, first responders and other workers face long commutes and homelessness, Microsoft's president Brad Smith and chief financial officer Amy Hood wrote in a blog post, noting that Microsoft set up in the city in 1979 with just 30 employees.

"If we're going to make progress, we'll all need to work together as a community," they said.

"Ultimately, a healthy business needs to be part of a healthy community. And a health community must have housing within the economic reach of every part of the community, including the many dedicated people who provide the vital service on which we all rely."

Most of the cash will be disbursed over the next three years in the form of loans worth \$475m and a \$25m grant to tackle homelessness.

Microsoft will lend \$225m at below market rate returns for preserving and developing new middle-income housing on King County's Eastside, and \$250m at market rate returns to support low-income housing across the King County region.

Twenty-five million dollars in "philanthropic grants" are on offer to address homelessness. Two initial commitments include \$5m for local non-profits to prevent people from becoming homeless by providing legal representation, helping with back rent and offering caseworker help; and \$5m to help the city of Seattle, and King County, to create a "consolidated entity" to address homelessness.

Accompanying Microsoft's announcement was a joint declaration from the mayors of nine of the largest cities around Seattle to "take steps" to increase affordable housing capacity.

Mayors of Auburn, Bellevue, Federal Way, Issaquah, Kent, Kirkland, Redmond, Renton and Sammamish will "consider changes" in zoning to increase the pipeline of housing in selected areas, providing desirable public land near transit locations, addressing permitting processes and fees, and creating tax incentives for developers.

The *New York Times* called Microsoft's initiative the "most ambitious effort" by a tech company to address inequality and notes that it comes less than a year after Amazon resisted proposals for a new tax in Seattle on big companies to build affordable housing and fund services for the homeless.

Further information is available at:

Source: GCR Staff (2019) 'Microsoft to pump \$500m into affordable housing', *Global Construction Review* [online]. Available at: [www.globalconstructionreview.com/news/microsoft-pump-500m-affordable-housing/](http://www.globalconstructionreview.com/news/microsoft-pump-500m-affordable-housing/) [accessed 25 January 2019]

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## **New HMO rules came into effect in England on 1 October 2018**

- New regulations to bring mandatory licensing to all multi-occupied properties where there are five or more people, forming two or more separate households.

The main changes are:

- Altered definition of an HMO under the Housing Act 2004: for licensing purposes, from 1/10, an HMO will be any property occupied by five or more people, forming two or more separate households.

This contrasts with the existing HMO definition which is a property occupied by 5 or more people, forming two or more separate households and comprising three or more storeys.

- If you already have an HMO license under the current definition, this will continue to be valid until the licence expiration date (usually 5 years from date of issue). After the expiration you will need to apply for a new license as usual.
- If you currently let an HMO which didn't previously require licensing but will do after the new order comes into effect later in the year (see publication date), then you will need to apply for a license through the local council.
- There is an important exception: if the property is in a purpose-built block of flats comprising 3 or more units
- Regulation 2 introduces minimum room standards for those properties falling within the scope of mandatory licensing

The proposals will prohibit landlords from letting rooms to a single adult where the usable floor space is less than 6.51sqm and 10.22sqm for a room occupied by two adults. It will be mandatory for an HMO licence to include a condition that states the maximum number of persons who may occupy each specific room in a property as sleeping accommodation.

#### **In breach of licence condition**

Landlords will have to stop letting rooms that fall below the nationally prescribed standard. If they do not, then they will be in breach of licence condition and could be prosecuted by the local authority or alternatively receive a civil penalty under the new Housing and Planning Act 2016 provisions. Rooms below the prescribed standard that have previously been found suitable for occupation will no longer be capable of being let separately as sleeping accommodation by any person aged over 10 (4.64 for children under 10).

Rooms under 4.64sqm cannot be used for sleeping. Floor area under a height standard of 1.5m is not included in the calculation.

- In the event of a breach of the minimum room size, new licences granted after 1<sup>st</sup> October 2018 will contain a condition giving landlords 18 months to act.
- Note that landlords will also need to comply with the local council's HMO licensing standards, which may involve making changes to comply with minimum room sizes, amenity standards (kitchen facilities, number of bathrooms etc.)
- Another condition of the licences will relate to refuse disposal and storage facilities, with minimum numbers of bins and storage facilities for waste expected to be set out by the government.

We welcome the upgrading of HMO standards but would caution that the introduction of minimum room sizing in particular, risks reducing capacity with potential knock-on effects on rent rises, as business plans are impacted.

The Licensing of Houses in Multiple Occupation (Prescribed Description) (England) Order 2018 SI 2018/221 & The Licensing of Houses in Multiple Occupation (Mandatory Conditions of Licences) (England) Regulations 2018 SI 2018/616 can be read on **Gov.UK**

For further information on this, please visit:

GOV.UK, Ministry of Housing, Communities and Local Government (2018) *Guidance: Houses in multiple occupation and residential property licensing reform: guidance for local housing authorities*, [online], 20 June. Available at: [www.gov.uk/government/publications/houses-in-multiple-occupation-and-residential-property-licensing-reform-guidance-for-local-housing-authorities](http://www.gov.uk/government/publications/houses-in-multiple-occupation-and-residential-property-licensing-reform-guidance-for-local-housing-authorities) [accessed 25 January 2019]

Source: RICS (2018), 'New HMO rules came into effect in England on 1 October 2018' [**RICS website > Home > News & Insight > Latest news > New HMO rules come into effect in England on 1 October 2018**] RICS [online], 8 August. Available at: [www.rics.org/uk/news-insight/latest-news/news-opinion/new-hmo-rules-come-into-effect-in-england-on-1-october-2018/](http://www.rics.org/uk/news-insight/latest-news/news-opinion/new-hmo-rules-come-into-effect-in-england-on-1-october-2018/) [accessed 25 January 2019].

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### **BCIS Schedules of rates updated for 2019**

- The latest BCIS review of construction resource costs shows that costs have generally risen between 1.5% to 3.5% over the last 12 months, however the picture is not the same across all trades.

The costs of woodwork, plumbing and mechanical and electrical installations have risen by an average of 6% in the same period. This underlines the importance of using the most up-to-date datasets to ensure that your estimates are accurate.

The BCIS resource datasets have been completely revised and updated for 2019 to include all recent changes to wage rates, plant and materials prices, revisions to adjustment factors and a range of new items. Pricing information is based on 2<sup>nd</sup> quarter 2018. They are published in the following data sets:

- BCIS Comprehensive majors works 2019 (36<sup>th</sup> edition)
- BCIS Comprehensive minor works 2019 (36<sup>th</sup> edition)
- BCIS Alterations & refurbishment 2019 (24<sup>th</sup> edition)

The BCIS major works estimating dataset focuses predominantly on large 'new build' projects with a value around £3.5 million, reflecting the economies of scale found in these types of scheme. The BCIS minor works estimating dataset focuses on small to medium sized 'new build' projects, around £1 million in value, reflecting the increase in costs brought about by reduced output, lower discounts, and increased carriage and supervision.

## Additions to the datasets

Several items have been added to both datasets, including:

- New items in the roofing, gutter and flashings section
- Extended sections on lighting and luminaires
- Ductwork specialist rates now include detailed build-ups

The Alterations & refurbishment dataset focuses on small to medium sized projects, generally within an existing building, and reflects the increase in costs associated with more difficult access and the possibility of working in occupied premises.

New additions to the 2019 dataset include:

- An expanded section on lighting and luminaires and
- New items added to the roofing, gutter and flashings section

The online version of the 2019 datasets (Schedules of rates online) is easily accessible via computer, netbook or tablet. It allows subscribers (of which UCEM is) to create, save and reuse abstracts of an estimate or schedule of rates and has the option of adjusting rates for location and base date, as well as providing rate breakdowns.

Source: RICS (2018), 'BCIS Schedules of rates updated for 2019' [RICS website > Home > News & Insight > Latest news > BCIS Schedules of rates updated for 2019] RICS [online], 8 August. Available at: [www.rics.org/uk/news-insight/latest-news/news-opinion/bcis-schedules-of-rates-updated-for-2019/](http://www.rics.org/uk/news-insight/latest-news/news-opinion/bcis-schedules-of-rates-updated-for-2019/) [accessed 25 January 2019].

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## Selecting benchmark building prices

- The Building Cost and Information Service (BCIS) average prices section provides a statistical analysis of the costs projects, which can be used to provide a budget for a project. The costs can be adjusted for location and date.

Care should be taken in selecting an appropriate figure; the factors to consider are:

- The likely design and specification expectations of the clients – are they typical for the type of building or are they likely to be more or less complex?
- The current market in the locality – are the existence of other large projects likely to influence the demand and supply of labour and materials?
- The constraints of the site – will the physical characteristics of a particular site, its size, accessibility and topography influence the design or ease of construction.
- Any anticipated difference between the main contractor's preliminaries, overheads and profit for the current scheme compared with an average scheme.

The statistics presented for a building type may include mean, media, upper and lower quantiles, deciles and overall range. A scatter diagram and histogram can also be found where the sample is at least 10.

While an average figure is provided by the mean or median, it will usually be more appropriate to pick a cost from within the range, to reflect the project's likely position within the distribution of costs for a building type, by considering the factors listed above.

A video showing how to use the BCIS average prices sections is also available via -

RICS (2018) 'BCIS – Guide to project analyses', YouTube [video]. Available at:

[www.youtube.com/watch?v=IFkipnh10Qs&utm\\_source=ricsmembership&utm\\_medium=email&utm\\_campaign=bcisprojectanalysisvideo](http://www.youtube.com/watch?v=IFkipnh10Qs&utm_source=ricsmembership&utm_medium=email&utm_campaign=bcisprojectanalysisvideo) [accessed 25 January 2019]

**Please note:** UCEM Staff and Students have access to the **Building Cost Information Service (BCIS)** via the **VLE e-Library** and within **section 5 – Industry Information Sources**.

RICS (2018) BCIS Construction [RICS website > Home > Products > Data Products > BCIS Construction] RICS

[online]. Available at: [www.rics.org/uk/products/data-products/bcis-construction/](http://www.rics.org/uk/products/data-products/bcis-construction/) [accessed 25 January 2019]

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## Access to The Joseph Rowntree Foundation’s latest research reports and comments relating to policy and practice

- The Joseph Rowntree Foundation is an independent organisation working to inspire social change through research, policy and practice.

Their vision is for a prosperous UK without poverty where everyone can thrive and contribute. To achieve this, they work in partnership with private, public and voluntary sectors, as well as with individuals and communities. Using evidence and experience, they search for the underlying causes of social problems and demonstrate practical solutions in order to influence lasting change.

They **search** out the underlying causes of poverty and disadvantage and identify solutions – through research and learning from experience.

They **demonstrate** solutions – developing and running services, managing land and buildings, and supporting innovation.

They aim to **influence** positive and lasting change – publishing and promoting evidence and bringing people together to share ideas.

Their website is broken down into

Cities, Towns and Neighbourhoods covering:	Housing covering:	Income and Benefits covering:	People covering:	Society covering:	& Work covering:
Cities	Affordable housing	Debt	Active citizenship	Ageing society	Employment
Climate change	Care homes	Food	Ageing population	Austerity	Equality
Devolution	Home ownership	Living standards	Carers	Civic participation	Forced labour
Economic Development and Local Growth	Homelessness	Living wage	Child poverty	Crime / Anti-social behaviour	Labour markets
Flooding	Housing regeneration	Minimum income standards	Children	Faith and religion	Low pay
Loneliness	Housing market	Pay	Dementia	Government	Retirement
Neighbourhoods	Housing providers	Pensions	Disabled people	Immigration	Skills
Planning	Private rented sector	Personal Finance	Divorce / Family breakdown	Local government	Volunteering
Public Spaces	Retirement housing	Tax	Drugs / Alcohol	Localism	Working with employers
Regeneration	Social housing	Unemployment	Education	Riots	
Services and local government	Tenant participation	Universal credit	Ethnicity	Slavery	
Transport	Tenants		Gender	Social exclusion	
			Independent living	Voluntary sector	
			Lone parents		
			Mental health		
			Migration		
			Older people		
			Sexuality		
			Social care		
			Young people		

Joseph Rowntree Foundation website, About us [online]. Further information is available at: [www.jrf.org.uk/](http://www.jrf.org.uk/) [accessed 25 January 2019]

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## **Social Housing Green Paper: JRF and JRHT response**

- As a society we believe that supporting each other is the right thing to do – we want to live in a country with a decent, affordable home for everyone. This response to the Social Housing Green Paper looks at two areas: increasing tenant voice and power and improving affordability.

This submission draws on the extensive research and policy work undertaken by JRF (Joseph Rowntree Foundation) and our experiences as landlords through JRHT (Joseph Rowntree Housing Trust).

These are the recommended actions:

- In the area of increasing tenant voice there is a lot of good practice, but more work is needed to ingrain modern forms of tenant engagement across the sector. In addition, a greater responsiveness to complaints is needed.
- It's not right that in a country like ours people on the lowest incomes are struggling to keep their heads above water. The Government must develop a plan to increase the supply of social housing, at rent levels that ensure affordability for families on low incomes.

Source: Soodeen F (2018) 'Social Housing Green Paper: JRF and JRHT response' [online], 13 November 2018.

Available at: [www.jrf.org.uk/report/social-housing-green-paper-jrf-and-jrht-response](http://www.jrf.org.uk/report/social-housing-green-paper-jrf-and-jrht-response) [accessed 25 January 2019].

### **JRF Housing Related Links:**

Barnard H, Heykoop L, and Kumar A (2018) 'How could Brexit affect poverty in the UK?' [online], 6 September 2018. Available at: [www.jrf.org.uk/report/how-could-brexit-affect-poverty-uk](http://www.jrf.org.uk/report/how-could-brexit-affect-poverty-uk) [accessed 25 January 2019]. **N.B.** Part of 'Solving poverty after Brexit'

Wright S, and Masters C (2018) 'Social Housing Green Paper: failing families on low income' [online], 14 August 2018. Available at: [www.jrf.org.uk/press/social-housing-green-paper-failing-families-low-incomes](http://www.jrf.org.uk/press/social-housing-green-paper-failing-families-low-incomes) [accessed 25 January 2019]

Brook P (2018) 'Life on a housing treadmill: struggling to make a home on a low income' [online], 30<sup>th</sup> April, JRF. Available at: [www.jrf.org.uk/blog/life-housing-treadmill-struggling-make-home-low-income](http://www.jrf.org.uk/blog/life-housing-treadmill-struggling-make-home-low-income) [accessed 25 January 2019]

Barnard H (2018) 'People on low incomes bear brunt of housing crisis: it's time to act' [online], 26 June 2018. Available at: [www.jrf.org.uk/blog/people-low-incomes-bear-brunt-housing-crisis-its-time-act](http://www.jrf.org.uk/blog/people-low-incomes-bear-brunt-housing-crisis-its-time-act) [accessed 25 January 2019]

Altair Consulting (2018) 'Housing and life experiences: policy development' [online], 30 April 2018. Available at: [www.jrf.org.uk/report/housing-and-life-experiences-policy-development](http://www.jrf.org.uk/report/housing-and-life-experiences-policy-development) [accessed 25 January 2019]

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## ***Family sharing – a minimum income standard for people in their 20s living with parents*** **– Latest research from Loughborough University and funded by Joseph Rowntree Foundation (JRF)**

- Cost of living almost doubles for young adults who fly the nest: New research examines the minimum income requirements of 20-somethings living at home

- Young adults' living costs can be 45% lower living with parents than if they rented a flat
- Cost of having a son or daughter at home adds about £24-a-week to parents' expenses
- Minimum cost of living for a single person and their parents is £135-a-week less overall than if both lived separately
- Two-third of single 20-somethings still live with parents
- Living with parents has become a 'normal' expectation for 20 to 30-year-olds

- The desire to save money for renting or buying is the main motivation for ‘living at home’

A growing number of families in which adults aged 20 to 30 live with their parents are having to negotiate new ways of pooling their resources, according to pioneering research investigating how these families live and the costs that they face.

Loughborough University’s Centre for Research in Social Policy investigated what families such as these need as a minimum to live on, and what determines their living standards.

The research, *Family sharing – a minimum income standard for people in their 20s living with parents*, talked to both young adults and parents living in such households, discussing present-day norms of how they share living arrangements and expenses.

For further information and access to the research in full, please visit

Loughborough University (2019) *Family sharing – a minimum income standard for people in their 20s living with parents* [online]. Available at: <https://www.lboro.ac.uk/news-events/news/2019/january/cost-of-living-with-parents/> [accessed 25 January 2019]

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## **Designing a Shared Prosperity Fund**

- (Part of **Solving poverty after Brexit**)

This report presents research on how the Government’s proposed UK Shared Prosperity Fund can invest in places that have been left behind by economic change, putting into practice the idea of ‘inclusive growth’.

What you need to know

- After Brexit, the UK will lose access to £2.4 billion from European Union (EU) Structural Funds (including associated match funding).
- The UK Government has proposed a new fund – the UK Shared Prosperity Fund – to replace these funds, using money returned from the EU.
- The UK Share Prosperity Fund should be targeted, flexible, devolved and designed to promote inclusive growth.

Source: Tinker R (2018) ‘Designing a Share Prosperity Fund’, Part of ‘Solving poverty after Brexit’ [online], 8 October 2018. Available at: [www.jrf.org.uk/report/designing-shared-prosperity-fund](http://www.jrf.org.uk/report/designing-shared-prosperity-fund) [accessed 25 January 2019]

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## **Home Builders Federation (HBF) Reports and Housing Calculator**

The impact of the housing crisis is now being truly understood at both local and national level with considerable focus now on political parties’ policies for addressing the chronic shortage of housing that has developed over several decades.

HBF Reports and Housing Calculator provided within the below mentioned website incl.

- Maximising the private sector’s contribution to solving our housing undersupply crisis – Following Greg Clark MP’s appointment as Secretary of State for Communities and Local Government, HBF submitted a policy paper, *Maximising the private sector’s contribution to solving our housing undersupply crisis* which outlined a series of recommendations and areas requiring immediate attention by the new Secretary of State (see below mentioned publication date).
- Solving England’s housing supply crisis – To read a more in-depth overview of the conditions required to dramatically increase the level of private house building and HBF’s suggestions on how to achieve this.
- Economic Footprint of House Building in the UK – To help inform our activity at the General Election and beyond, in early 2015 HBF commissioned Nathaniel Lichfield & Partners to conduct an extensive analysis of the economic and social benefits associated with house building, and the
- **Housing Calculator** – Estimate the potential benefits of increasing house building.

Home Builders Federation (HBF), Policy and Activities, HBF Reports and Publications [online]. Further information is available at: [www.hbf.co.uk/reports/](http://www.hbf.co.uk/reports/) [accessed 25 January 2019]

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## UK Property Research – Savills latest research incl.

### Valuing Britain 2018

- What does the value of Britain's housing stock mean for investors and landlords

**Value of the UK's housing stock = £7.14 trillion** – This would buy you Google, the International space station, the top 20 UK housebuilders, all the oil left in the North Sea, all bitcoin circulation, Amazon, Apple, Coca-Cola, McDonald's all companies in the FTSE100 and FTSE250, the top 15 mortgage lenders and the English Premier League.

This and more facts and figures can be found at:

Savills Research (2018) *Valuing Britain 2018* [online]. Available at: [www.savills.co.uk/valuing-britain/index.html](http://www.savills.co.uk/valuing-britain/index.html) [accessed 25 January 2019]

Savills Research (2018) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: [www.savills.co.uk/services/research.aspx](http://www.savills.co.uk/services/research.aspx) [accessed 25 January 2019]

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### Affordable Housing Research

#### Publication | Bedfordshire: Unlocking potential

##### Market overview

- Bedfordshire sits in the centre of one of the UK's most exciting growth opportunities that will deliver innovation, infrastructure and sustainable economic and housing growth.

##### Underdeveloped, affordable and with a strong outlook

Bedfordshire is a county with diverse characteristics. It ranges from small, rurally set commuter towns, such as Sandy, to the much more urban and densely populated Luton. What is consistent across the county is relative housing affordability and excellent strategic location.

Bedfordshire's strength as a location is multifaceted. It has excellent links to London with journey times into Kings Cross St Pancras as quick as 24 minutes from Luton and less than 50 minutes from most other towns in the county.

It is situated in a central area in the heart of the Cambridge-Milton Keynes-Oxford growth corridor, which is one of the most innovative and economically successful parts of the UK. The corridor has huge opportunities for further growth and the support of central government. Improved infrastructure will be a key part of this and continue to improve connectivity in the region along with the expansion of Luton airport.

The strength of the location has been recognised by a number of high-growth global businesses that operate in the area and are thriving. The three unitary authorities that make up the county, Bedford, Central Bedfordshire and Luton, have all developed their own significant local sector strengths.

Employers are also attracted by Bedfordshire's positive demographic picture, it has seen population growth of 8.0% since 2011, significantly outperforming the national rate of 4.35% (ONS) and it has a strong local labour pool with high levels of employment. Bedfordshire's outlook is also strong, with base-case population and employment growth projected to be higher than both national and regional projections.

Further information on the 'Housing market' and access to the research in full is available @

Williams E, Rose-Nokes J [et al.], Savills Research and articles (2018), 'Publication: *Bedfordshire: Unlocking potential*' [online], 12 December. Available at: [www.savills.co.uk/research\\_articles/229130/272691-0](http://www.savills.co.uk/research_articles/229130/272691-0) [accessed 25 January 2019]

Savills Research (2018) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: [www.savills.co.uk/services/research.aspx](http://www.savills.co.uk/services/research.aspx) [accessed 25 January 2019]

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### Residential Research

#### Publication | UK Housing Market Update

- Transaction volumes have stabilized, but house price growth has slowed

House prices dropped 0.7% in December, the largest monthly fall since 2011, according to Nationwide. That surprisingly weak performance coincided with raised political uncertainty leaving annual house price growth at 0.5% for 2018, marginally undershooting our forecast of 1.0%. Annual growth varied across the regions: it was strongest in the East Midlands at 4.0%, followed by Wales at 3.9% and Yorkshire & the Humber at 3.7%. After a

long period of outperformance that has left affordability constrained, London was fared the worst, with value down 2.2% since the start of the year. Wales was the strongest performer in Q4, whilst the East and the West Midlands slowed. This is in line with our forecast that house price growth in Wales and the North will overtake the Midlands over the next two years.

Although house price growth was weaker than expected at the end of 2018, transaction volumes appear to have stabilized across all regions in October. That stability continued into November at a national level, according to data from HMRC. But new instructions and enquiries both continued to fall in December, according to the RICS survey. They reached their lowest levels since the immediate aftermath of the Brexit vote.

Brexit is the most cited cause (according to the RICS survey) for reduced activity, and housing market uncertainty is likely to continue until some clarity emerges. This could come with the result of the parliamentary vote on Theresa May's deal on 15<sup>th</sup> January 2019. But if Parliament votes against her deal, we will need to wait until the end of the month for Parliament to present an alternative. Any deal agreed by Parliament will also need to be ratified by the EU before 'Brexit Day' on 29<sup>th</sup> March.

Further information and access to the research in full is available @

Hampson E, and Buckle C, Savills Research and articles (2019), 'Publication: *UK Housing Market Update*' [online], 8 January. Available at: [www.savills.co.uk/research\\_articles/229130/273367-0](http://www.savills.co.uk/research_articles/229130/273367-0) [accessed 25 January 2019]

Savills Research (2019) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: [www.savills.co.uk/services/research.aspx](http://www.savills.co.uk/services/research.aspx) [accessed 25 January 2019]

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## **Commercial Research**

### **Publication | Spotlight: UK cross sector outlook**

- Investment trends and forecasts for 2019 across the commercial, residential and rural sectors

Welcome to the 2019 edition of this Savills annual Cross Sector Outlook. Their three heads of research, Mat Oakley, Lucian Cook and Emily Norton present their forecasts for the coming year and give their hot picks for out-performance in 2019 and beyond.

With Brexit uncertainty imminent, calling the market for 2019 is no easy task. The autumn budget (see publication date) confirmed that there is slack in the system to support a shock to the economy, but political change and regulatory reform remain key risk factors. In this uncertainty, a flight to real-estate assets could be expected, but with capital growth lacking in the short term, seeking the best rental growth prospects means finding niches and meeting changing expectations. Attractive investment opportunities are still coming to the market.

This Spotlight helps identify where the best value can be found across the various asset classes in the rural, commercial and residential sectors to inform your future investment decisions.

Savills expert knowledge and insight across all sectors are tangible benefit to their clients, and – especially at times of uncertainty – their real-estate expertise has never been more important.

By visiting the below provided source link, you can gain access and listen to a podcast where Savills researchers debate their predictions of the key trends for 2019.

Further information and access to the research in full is available @

Sparrow J, Oakley M [et al.], Savills Research and articles (2019), 'Publication: *West End Investment Watch*' [online], 8 January. Available at: [www.savills.co.uk/research\\_articles/229130/272773-0](http://www.savills.co.uk/research_articles/229130/272773-0) [accessed 25 January 2019]

Savills Research (2018) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: [www.savills.co.uk/services/research.aspx](http://www.savills.co.uk/services/research.aspx) [accessed 25 January 2019] [Back to top](#)

## **Rural Research**

### **Publication | Spotlight: Estate Benchmarking**

- There are many challenges ahead for owners of rural estates, which means being able to benchmark performance against others remains essential.

#### **Facing up to change**

In England, the recent publication of the Agriculture Bill heralds the start of the Government's clarification of the Impact of Brexit on the farming sector.

From the information currently, available we know there is significant disruption to come in the way in which land is farmed and managed, and we anticipate a major shift in the occupation of land as a result. While the Bill will not be enacted in Scotland, following its publication in October the Scottish Affairs Committee launched an inquiry to investigate how any post-Brexit agricultural system, in conjunction with Land Reform, can meet the needs of Scotland's farmers and crofters. We eagerly await the outcome of the inquiry to understand to what extent policy will be influenced by Westminster.

Despite the differing policies north and south, opportunities will undoubtedly surface, but meanwhile the resilience of rural estates will be tested, and in particular those that are heavily exposed to farming.

As we navigate our way through this period of change, understanding the performance of rural businesses and being able to benchmark them against others remains essential in determining strategy and actions needed to meet the challenges ahead. Our *2018 Estate Benchmarking Survey* confirms businesses are continuing to operate dynamically with all asset classes being worked hard.

Across the sectors reported, gross incomes continue to improve, with agriculture and residential property remaining the bedrock of the rural estate, owners have been giving renewed focus to opportunities for diversification with many privately-owned estates looking to now trading businesses as a source of additional revenue and as a means of managing down the risk of the impact of Brexit on farm incomes.

Concurrently, one temptation may be to cut back on property repairs, which currently stand at 23% of gross income. However, history has shown that such an approach will only serve to create a legacy of lack of repair, which will impact on future performance due to a lack of demand for a poor product and the spiraling cost of overcoming years of no repairs. It is essential to keep residential stock at a level with market expectations. There are real challenges ahead, which means estate owners will need to watch closely the impact of legislative and regulatory change on their enterprises and the impact they have on costs and associated income. Resilient estates will need to adapt and face up to change with a positive attitude whilst navigating the choppy post-Brexit waters ahead.

Further information, and articles from publication '*Market in Minutes: Agricultural Rents*', and access to the research in full is available @

Bailey I, Baxter J [et al.] (2018), Research and articles, Publication: '*Spotlight: Estate Benchmarking*' [online], 6 November. Available at: [www.savills.co.uk/research\\_articles/229130/266087-0](http://www.savills.co.uk/research_articles/229130/266087-0) [accessed 25 January 2019]

Savills Research (2018) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: [www.savills.co.uk/services/research.aspx](http://www.savills.co.uk/services/research.aspx) [accessed 25 January 2019]

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## **Brexit Research**

### **Brexit Research**

- This section of Savills Research has web-pages dedicated to the implications for different sections of the UK property market of the European Union (EU) referendum result.

#### **Latest publications incl.**

- Brexit Briefing #2: The Impact on the Central London Office Market – Market stabilising in a post-referendum environment
- Brexit Briefing: Food and Farming – Navigating through the complexity of the post-Brexit landscape: The impact of the farming sector of leaving the EU is likely to be high
- Challenges and opportunities in the next decade – What part will Brexit, housing policy and industry innovation play in meeting the nation's housing challenges?

#### **Trending articles incl.**

- The Impact on the central London office market – Uncertainty will be a drag on activity, but London still looks comparatively attractive
- The Impact on Global Real Estate – Reassessing risk and opportunity following Britain's decision to leave the EU
- The Impact on the UK Logistics Market – Robust occupier take-up and low vacancy rate will keep sector attractive for investors

Savills Research (2018) *Brexit Research* [online]. Available at: [www.savills.co.uk/insight-and-opinion/research.aspx?rc=United-Kingdom&p=&t=Brexit&f=date&q=&page=1](http://www.savills.co.uk/insight-and-opinion/research.aspx?rc=United-Kingdom&p=&t=Brexit&f=date&q=&page=1) [accessed 25 January 2019]

Savills Research (2018) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: [www.savills.co.uk/services/research.aspx](http://www.savills.co.uk/services/research.aspx) [accessed 25 January 2019]  
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## Access to the House of Commons Library, Research briefings that impact on our industries incl.

### [The Construction Industry: statistics and policy](#)

- **Key statistics on the construction industry – employment, new orders, output. Also, construction sector policy initiatives.**

In 2014 the construction industry in the UK contributed £103 billion in economic output, 6.5% of the total. 2.1 million jobs or 6.25% of the UK totals were in the construction industry in Q 2015.

The construction industry, particularly house building, fared badly during the recession. Output in the construction sector fell faster than the whole economy in 2008. 2009 saw the sector recover faster than the economy, and 2010 and 2011 saw broadly flat growth, followed by another contraction in 2012 and partial recovery through 2013.

The Coalition Government's strategy paper on the construction industry is *construction 2025*, published in July 2013.

The construction industry was also highlighted in the March 2011 *Plan for Growth*.

Rhodes C (2015), *Construction industry: statistics and policy*, House of Commons Library, Briefing Paper Number 01432, 6 October 2015 [online] and available at:

<http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN01432> [accessed 25 January 2019]

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### Related Links/Source of further information –

#### Latest research briefing papers from the House of Commons Library

The House of Commons Library produces research briefing which provide in-depth and impartial analysis of all major pieces of legislation, as well as many areas of policy, or cover frequently asked questions and topical issues.

The following might be of interest as they impact on our industries:

#### **Under Housing and planning, 2018 -**

**Tackling the under-supply of housing in England** [10 December 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7671> [accessed 25 January 2019]

**2019 Benefits Uprating** [5 December 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8458> [accessed 25 January 2019]

**Housing Market: Key Economic Indicators** [29 November 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02820> [accessed 25 January 2019]

**Leasehold high-rise flats: who pays for fire safety work** [23 November 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8244> [accessed 25 January 2019]

**New-build housing: construction defects – issues and solutions (England)** [18 November 2018]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7665> [accessed 25 January 2019]

**House prices (UK): Social Indicators page** [14 November 2018]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02645> [accessed 25 January 2019]

**Housing: key resources for constituency casework (England)** [12 November 2018]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN04433> [accessed 25 January 2019]

**Grenfell Tower Fire: Background** [15 May 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8305> [accessed 25 January 2019]

**Grenfell Tower fire: Response and tackling the fire risk in high rise blocks** [1 August 2017] [online]. Further information is available at: <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7993> [accessed 25 January 2019]

**Brexit: a reading list of post-EU Referendum publications by Parliament and the Devolved Assemblies** [3 December 2018] [online]. Further information is available at <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7912> [accessed 13 December 2018].

**Topics/Subject terms incl.** Administration of justice; Agriculture and environment; Animals; Armed forces; Asylum; Aviation; Central government; Civil law; Climate change; Common Agricultural Policy; Companies; Consumers; Criminal law; Data protection; Defence equipment and procurement; Defence policy; Devolution; Economic policy; Economic situation; Energy; Environmental protection; Equality; EU- European Union budget; EU external relations; EU institutions; EU law and treaties; Europe; Farmers; Financial institutions; Financial services; Fisheries; Food; Forestry; Genetics; Health services; Higher education; Housing; Human rights; Immigration; Incomes and poverty; Industry; Information technology; International development; International economic relations; International organisations; International politics and government; International trade; Legislative process; Local government; Medicine; Middle East; North America; Overseas territories; Parliament; Pensions; Railways; Research and innovation; Roads; Russia; Science; Terrorism; Unemployment; and Water.

**A short history of rent control** [30 March 2017] [online]. Further information is available at: <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN06747> [accessed 25 January 2019]

## **Under Education, 2018 –**

**Teacher recruitment and retention in England** [10 December 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7222> [accessed 25 January 2019]

**Adult further education funding in England since 2010** [7 December 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7708> [accessed 25 January 2019]

**16-19 education funding in England since 2010** [7 November 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN07019> [accessed 25 January 2019]

**What if there's no Brexit deal?** [12 October 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8397> [accessed 25 January 2019]

**Safeguarding in English schools** [5 October 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8023> [accessed 25 January 2019]

**The Office for Students** [5 June 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8294> [accessed 25 January 2019]

**T Levels: Reforms to Technical Education** [30 May 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7951> [accessed 25 January 2019]

## **Under Energy and environment, 2018 –**

**The UK's EU Withdrawal Agreement** [7 December 2018]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8453> [accessed 25 January 2019]

**Brexit: a reading list of post-EU Referendum publications by Parliament and the Devolved Assemblies** [3 December 2018] [online]. Further information is available at <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7912> [accessed 25 January 2019].

**Brexit Glossary** [22 November 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7840> [accessed 25 January 2019]

**Climate change conference (COP24): Katowice, Poland** [29 November 2018]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8450> [accessed 25 January 2019]

**Brexit: energy and climate change** [9 November 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8394> [accessed 25 January 2019]

**What if there's no Brexit deal?** [12 October 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8397> [accessed 25 January 2019]

#### Archive of key topic areas incl.

- **Housing Market: Key Economic Indicators**
- **Implementation of Sustainable Development Goals**
- **Flood insurance**
- **Planning: change of use**
- **Planning Reform Proposals**
- **House Prices: Social Indicators**
- **Enterprise Zones, and**
- **Neighbourhood Planning**

*Source:* The above-mentioned research briefings/papers are published on the Parliament **website** and are available to MPs and to members of the public, [www.parliament.uk](http://www.parliament.uk), Parliamentary business, Publications and records, **Research briefings** [online]. Further information is available at: <http://researchbriefings.parliament.uk/> [accessed 25 January 2019]

- This page provides access to research briefings produced by the House of Commons Library, the House of Lords Library and the Parliamentary Office of Science and Technology (POST). You can filter the research briefings by date, type, or one of 350 topics. Pick your options from the dropdown menus provided.

#### **Related Link:**

*Source:* Heritage Update e-Bulletin [online], Issue **No 322**, 29 April 2016, The Heritage Alliance. Available at: [www.theheritagealliance.org.uk/heritage-update](http://www.theheritagealliance.org.uk/heritage-update) [accessed 25 January 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: [www.theheritagealliance.org.uk/update/](http://www.theheritagealliance.org.uk/update/) [accessed 25 January 2019]

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## **CIOB (Chartered Institute of Building) portal on government policy – [Policy latest](#)**

The quality of the built environment affects every member of society. As a professional body that represents the leaders and managers who work at every stage of the lifecycle of a construction project, the Chartered Institute of Building seek to influence government, industry, and other stakeholders around the world with the aim of promoting the construction management discipline and addressing the challenges that the sector faces.

Sections of the CIOB Policy and Public Affairs website incl.

- **Consultations** - view latest responses to government and industry consultations and committees
- **Research** – The CIOB carry out industry-leading research on topics such as professionalism, migration and productivity
- **Resources** – Navigate the vast array of government documentation
- **Press** – Here you will find blog posts, CIOB media mentions and all the latest news.

As of [13 December 2018](#), Policy latest incl.

- **Construction and the Modern Slavery Act: Tackling Exploitation in the UK** (see below)
- **CIOB, RIBA and RICS collaborate on initiative to improve building quality** (see below), and
- **Help shape the CIOB response to industry consultations** (see below).

*Source:* CIOB - Chartered Institute of Building's Policy and Public Affairs website [online]. Further information is available at: <http://policy.ciob.org/> [accessed 25 January 2019]

## [Construction and the Modern Slavery Act: Tackling Exploitation in the UK](#)

### Summary

- CIOB is urging the UK contractors to face up to the significant human rights risks in their supply chains, with the launch of a new report that finds both British and foreign workers at risk of exploitation.

***Construction and the Modern Slavery Act, tackling exploitation in the UK*** is published as the Gangmaster and Labour Abuse Authority (GLAA) and National Crime Agency (NCA) jointly lead national enforcement campaign involving police forces and other agencies aimed at tackling labour exploitation. NCA analysis has identified construction as one of the most common sectors for labour exploitation in the UK.

Criticising the industry's slow response to the Modern Slavery Act, CIOB's report highlights the aggressive business models that are creating an environment for unethical procurement and recruitment practices, and the systemic auditing failures that are allowing criminals to infiltrate major projects undetected.

Problems are set at the top of supply chains with lowest cost tendering, abuse of the retentions system and late payment pricing out ethical practice. The situation is creating an imbalance of power that leaves all nationalities vulnerable to exploitation. Illegal activities such as blacklisting are also believed to be continuing, despite recent high-profile court cases.

Major contactors in construction typically have long and fragmented supply chains, with little visibility beyond tiers one or two. They are also heavily reliant on temporary migrant labour, a significant indicator of risk. Nevertheless, the report found examples of complacency and disbelief that major projects were vulnerable to criminal infiltration and human trafficking. This contrasted with incidents of modern slavery being found on major UK infrastructure programmes, PFI hospital projects, power plants, recycling centres, renovation projects, demolition sites and local authority schemes.

The report highlights:

- How industry is conflating immigration checks with modern slavery checks. This is ineffective because many people trapped in modern slavery have a legitimate right to work in the UK.
- Severe weaknesses in commercial auditing models, with auditors dis-incentivised to report problems to the police.
- Poor transparency in supply chain reporting standards, with many eligible companies failing to produce a modern slavery report in the first annual reporting cycle. A significant number of published statements do not follow minimum legal requirements, including being visible on the company homepage and being signed off by a board director.
- A tendency for companies to water down their modern slavery statements to remove mention of risk, against the spirit of the Modern Slavery Act.
- Examples of sharp practice, with major players defaulting to legal compliance exercises that push responsibility onto their less well-resourced suppliers. This is also against the spirit of the legislation.

*Construction and the Modern Slavery Act* includes interviews with a number of leaders and influencers, including:

- Independent anti-slavery commissioner Kevin Hyland OBE
- The late Paul Broadbent, former chief executive of the Gangmasters and Labour Abuse Authority (GLAA)
- Leading barrister Caroline Haughey QC
- Chief constable for Devon and Cornwall Police and national policing lead for modern slavery Shaun Sawyer
- Justine Currell, executive director of Unseen and the Modern Slavery Helpline.

The report explores the legal, investor and social pressures for driving change. It also highlights examples of industry best practice as well as platforms for information sharing, such as the GLAA's construction forum. Strategies for rehabilitating survivors of slavery are included through the Co-op Group's Bright Future programme.

CIOB is calling for a new industry narrative: asking contractors to acknowledge that every supply chain is at risk and collaborate more widely to combat crime. It is launching a **Routemap to Fair Business** which sets out steps for raising standards for all workers and suppliers, encouraging a more proactive approach to tackling systemic issues.

Further information and link to the CIOB Manifesto to read online and download is available at:

Source: Crates E (2018), 'Construction and the Slavery Act: Tackling Exploitation in the UK' [online], CIOB Policy & Public Affairs Portal, 14 May 2018. Available at: <https://policy.ciob.org/research/construction-and-the-modern-slavery-act-tackling-exploitation-in-the-uk/> [accessed 25 January 2019]

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## CIOB, RIBA and RICS collaborate on initiative to improve building quality

The Chartered Institute of Building (CIOB) Past-President Paul Nash, Royal Institute of British Architects (RIBA) President Ben Derbyshire, and Royal National Institution of Chartered Surveyors (RICS) President John Hughes have signed the 'Building in Quality: Joint Memorandum of Understanding' (JMU).

As part of this agreement, the partners launched an industry-wide consultation on a proposed system for establishing a chain of custody for quality in construction projects, on the RIBA stand at Ecobuild.

Led by the RIBA's Client Liaison Group, which includes CIOB and RICS representation, the 'Building in Quality' initiative aims to encourage better collaboration, improved procurement, and to introduce new methods to improve the quality of the built environment for the benefit of the society.

The consultation process will run from April until end of June 2018 leading to a launch of the 'Quality Risk Tracker: setting up a chain of custody' at UK Construction Week from 9-11 October 2018. Parties wanting to participate in the consultation should go to our Building in Quality consultation page to register their interest. Further information is available at

RIBA (2018) 'Building in Quality' consultation – tell us your views' [online]. Available at:

[www.architecture.com/knowledge-and-resources/knowledge-landing-page/building-in-quality-consultation](http://www.architecture.com/knowledge-and-resources/knowledge-landing-page/building-in-quality-consultation)

[accessed 25 January 2019]

Further information is also available at

Source: CIOB (2018), 'CIOB, RIBA and RICS collaborate on initiative to improve building quality' [online], CIOB Policy & Public Affairs Portal. Available at: <https://policy.ciob.org/research/social-mobility-construction-building-routes-opportunity/> [accessed 25 January 2019]

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## [Help shape the CIOB response to industry consultations](#)

- Covering topics including building regulations, labour market enforcement and leasehold reform, by clicking on the link below you can have your say and shape the CIOB's response.

The CIOB is regularly invited to advise government departments, committees, political groups and other stakeholders on a multitude of issues related to the construction sector and the wider built environment.

Consultations and written evidence to committees are a key component of the policy-making process. One of the main ways CIOB engage with government and influence policy is by responding to these proposed industry changes through a combination of **drawing on CIOB existing research** alongside input from expert CIOB members. From the below link you can access a list of current consultation that CIOB are seeking input on, which are highlighted in green, as well as an archive of all previous CIOB consultation responses.

### Related Link:

CIOB, Policy & Public Affairs, Research [online]. Available at: <https://policy.ciob.org/research/> [accessed 25 January 2019]

Source: CIOB [n.d.], Policy and Public Affairs – Consultations [online]. Available at: <https://policy.ciob.org/consultations/> [accessed 25 January 2019] [Back to top](#)

## **Apprenticeships –**

### **'The exhausting road to my apprenticeship dream' – [BBC News apprentice tells us about her journey](#)**

- As an MPs' report says too many youngsters are not getting the support they need to access an apprenticeship, BBC News apprentice tell us about her journey in this article.

**“Why an apprenticeship?”** I did not want to start my adult life in debt. It’s as simple as that. If I was to accumulate nearly £30,000 worth of student debt at the age of 21 simply through taking a degree, I feared my aspiration to buy my own house would be harder to achieve. Not only that, but A-levels nearly broke me.

I realised that, after spending what felt like an entire life in education, I craved a change, but on that would bring new openings. **Apprenticeships are a ladder of opportunity, bursting full of new chances and skills waiting to be experienced by keen individuals.**

‘Life just beginning’ - **Apprenticeships can be the catalyst to a secure career in a desired industry**, and everyone deserves the choice to apply to one.

I am going to spend two years both studying in college and being stationed in a BBC News department, so **I will benefit from being part of the team in the real world of work.**

Nowadays, many employers are seeking candidates who have plenty of experience as well as a qualification. As an 18-year-old, my adult life is only just beginning. I am figuring myself out while making amazing discoveries along the way.

I am overcome with pride every time I remember that I am an apprentice, and I cannot wait to see what the future holds for me.”

Source: BBC News (2018) ‘The exhausting road to my apprenticeship dream’ [BBC news > Family & Education] BBC News [online]. Available at: [www.bbc.co.uk/news/education-45760477](http://www.bbc.co.uk/news/education-45760477) [accessed 25 January 2019]

#### **Related links:**

BBC News (2018) ‘**Apprenticeships down amid “frustration”**’ [online], 19 April. Available at: [www.bbc.co.uk/news/business-43809679](http://www.bbc.co.uk/news/business-43809679) [accessed 25 January 2019]

BBC News (2018) ‘**Firms relabeling low-skilled jobs as apprenticeships, says report**’ [online], 13 April. Available at: [www.bbc.co.uk/news/education-43739963](http://www.bbc.co.uk/news/education-43739963) [accessed 25 January 2019]

BBC News (2018) ‘**Apprenticeships: Eight things you need to know**’ [online], 21 February. Available at: [www.bbc.co.uk/news/business-42977824](http://www.bbc.co.uk/news/business-42977824) [accessed 25 January 2019]

BBC News (2017) ‘**Apprenticeships: ‘It’s the money that puts people off’**’ [online], 13 October. Available at: [www.bbc.co.uk/news/41599034](http://www.bbc.co.uk/news/41599034) [accessed 25 January 2019]

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#### **Further ‘Apprenticeship-related’ links:**

### **UCEM Apprenticeship programme – Development talent for your business**

Further information is available via the UCEM Website [online] and available @ [www.ucem.ac.uk/development-talent-for-your-business/apprenticeships/](http://www.ucem.ac.uk/development-talent-for-your-business/apprenticeships/) [accessed 4 January 2019]

**Success for UCEM’s first two apprentices** – Further information is available at:

Source: UCEM (2018) ‘Success for UCEM’s first two apprentices’ [UCEM Website > Home > News & Events > News > Success for UCEM’s first two apprentices] UCEM [online]. Available at: [www.ucem.ac.uk/news-events/news/success-for-ucems-first-two-apprentices/](http://www.ucem.ac.uk/news-events/news/success-for-ucems-first-two-apprentices/) [accessed 25 January 2019]

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### **Need to know: Apprenticeship levy FAQ**

- Understanding the funding mechanism for training can be a complex affair – so how does the government’s new apprentice training levy fit into the equation? Here’s what we know so far.

- **What is the Apprenticeship Levy?**

The Apprenticeship Levy is a new levy introduced by the government on all employers with a pay bill of more than £3m per year. It is intended to encourage employers to invest in apprenticeships, to increase the quality and quantity of apprenticeships across the whole of the economy.

The Levy was announced in the 2015 Summer Budget and will come into force in April 2017 at a rate of 0.5% of an employer’s wage bill, paid through PAYE. It is expected to raise £3bn a year by 2020.

- **How many construction firms will need to pay the Apprenticeship Levy?**

Based on current data, about 1% of employers registered with the Construction Industry Training Board (CITB), about 600 companies will need to pay. However, the apprenticeship reforms will impact on construction employers of all sizes.

- **What will employers get back from the Levy?**

Employers in England will be able to reclaim their contributions as digital vouchers to pay for apprenticeship training.

This voucher system will not apply in Scotland, Wales and Northern Ireland. The devolved governments in those countries will receive additional funds in proportion to the amount spent on training in England.

Employers that pay the Apprenticeship Levy will also receive a 10% top-up from the government towards their total monthly contributions in England. So, for every £1 an employer pays in, they can draw down £1.10 to spend on apprenticeship training.

**Other question raised incl.**

- The main details regarding funding
- How will the proposed funding bands work? Will they work for construction?
- What's the co-investment rate?
- What are the new standards going to look like?
- How will the new levy work with the current CITB levy?
- Where can I go for more information?

Further information can also be accessed via

**Related Links:**

Further information incl. **Learning from the levy** can be found at: **Apprenticeship levy: making the most of it** Husband S (2018) 'Apprenticeship levy: five myths busted', *Further Education News.co.uk* [online], 22 February. Available at: [www.fenews.co.uk/press-releases/16261-apprenticeship-levy-five-myths-busted](http://www.fenews.co.uk/press-releases/16261-apprenticeship-levy-five-myths-busted) [accessed 25 January 2019]

CIOB, CM - Construction Manager (2017), Apprenticeship levy: making the most of it, *Construction Manager* [online], 14 May. Available at: [www.constructionmanagemagazine.com/management/how-currie-brow7n-m8aking-apprenticeship-levy/](http://www.constructionmanagemagazine.com/management/how-currie-brow7n-m8aking-apprenticeship-levy/) [accessed 25 January 2019]

Bentley A (2017), CIOB, CM - Construction Manager, Management: The apprenticeship levy and how to spend it, *Construction Manager* [online], 26 June. Available at [www.constructionmanagemagazine.com/management/get-head-start-apprenticeship-levy/](http://www.constructionmanagemagazine.com/management/get-head-start-apprenticeship-levy/) [accessed 25 January 2019]

CIOB, CM - Construction Manager (2015), **Q&A briefing:** How will the new apprenticeship levy affect the industry? *Construction Manager* [online], 26 November. Available at [www.constructionmanagemagazine.com/news/ne1w-apprenticeship-levy-qa/](http://www.constructionmanagemagazine.com/news/ne1w-apprenticeship-levy-qa/) [accessed 25 January 2019]

Jones M (2017), 'Implementation is key to making the apprenticeship levy less about cost and more about gain', LinkedIn [online], 9<sup>th</sup> June. Available via [www.linkedin.com](http://www.linkedin.com) [accessed 25 January 2019]

- Dr Mark Jones is the Chief Operating Officer at the Higher Education Academy (HEA)

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## **UCEM Accreditation and recognition**

UCEM works closely with the leading professional bodies in the Built Environment to ensure that our programmes provide the knowledge and understanding required to achieve chartered status. These include the Royal Institution of Chartered Surveyors (RICS), the Chartered Institute of Building (CIOB), the Chartered Association of Building Engineers (CABE) and the Chartered Management Institute (CMI) and Hong Kong Institute of Construction Managers (HKICM). All our bachelor and masters level programmes are formally accredited by at least one of these bodies. Our Foundation Degree Surveying Practice is also recognised by RICS and CABE for Associate membership. Our Diploma of Higher Education in Surveying Practice (Real Estate Pathway),

Foundation Degree in Surveying Practice (Real Estate pathway), UCEM BSc (Hons) Real Estate Management and UCEM MSc Real Estate are recognised by the Property Services Regulatory Authority (in the Republic of Ireland).

Under the current policy of the Hong Kong Institute of Surveyors (HKIS), graduates of UCEM programmes that are accredited by RICS are permitted to take the Assessment of Professional Competence of HKIS.

Further information can be accessed via the UCEM website [online] and available at: [www.ucem.ac.uk/about-ucem/accreditation-recognition/](http://www.ucem.ac.uk/about-ucem/accreditation-recognition/) [accessed 25 January 2019]

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## Further information on ‘Designing Buildings Wiki’ –

### [The construction industry knowledge base incl. Featured articles, and news.](#)

**About** – *Designing Buildings Wiki* is the only industry-wide, cross-discipline forum for finding and sharing information. Anyone can create articles about subjects they know, and anyone can find articles about subjects they don’t.

This month covers **Featured articles** (as of 17 January 2019) on

- **U-values – What U-values are, why they matter and how they are calculated.**
- Planning for a more bio-resourceful future.
- **Building completion – Quality professionals need to take an active role in driving the completion process forwards.**
- The net-zero concept – The innovations needed to move from rhetoric to realisations.
- Gresham’s School Britten Building – Creating a sense of place, with radically-low running costs and the highest comfort levels.
- Loving heritage to death – A conversation between David Mitchell and Caitlin DeSilvey.
- **Bricks – A quick guide to brick sizes.**
- 100 Union Street – The Union Street development in Southwark was a passion, as well as a business endeavour.
- Water quality management – Do our water quality standards demonstrate to the public that they supply is clean?
- **QSAND – Sustainable approaches to relief, recovery and reconstruction after a natural disaster (see further information in the Sustainability Hub provided below)**
- Concurrent delay – An introduction to a complex issue, the legal status of which remains unclear.
- Grease management – Dealing with the fats, oils and greases that enter the sewer system.
- National Museum of Qatar – One of the Middle East’s most iconic landmarks, formed by a series of interlocking disks.
- Learning from Genoa – A reminder of the risks of time-related deterioration and increased loading.

This month also contains **news** (as of 4 January 2019) from the following organisations and online journals incl.

- BBC News – Hitachi suspends work on £20bn nuclear plant in North Wales due to rising construction costs
- **Scottish Construction Now, 16<sup>th</sup> Jan – Flats and offices planned for ‘People make Glasgow’ tower.**
- The Construction Index, 16 Jan – Pay of self-employed workers’ outstrips wages of the employed.
- Clean air strategy – BSRIA calls on government to reach deeper into the causes of pollution.
- RIBA, 14 Jan – Construction sector is not taking up tax credits for research and development.
- Construction Manager, 14<sup>th</sup> Jan – Mace wins Renzo Piano’s £825m Paddington ‘Cube’.
- New editor appointed – George Demetri brings a whole new level of technical knowledge to Designing Building Wiki.
- **GOV.UK, 14 Jan – HS2 sets a new benchmark in construction vehicle emission standards.**
- **BIM Plus, 14 Jan – BIM’s key role in the ‘golden thread’ and improving project outcomes.**

- GOV.UK, 14 Jan – Clean Air Strategy 2019 – The government launches a strategy to clean up our air.
- GCR, 11 Jan – Hitachi to “suspend all work” on Wales’ nuclear power station.
- CIAT, 9 Jan – Report says concrete is responsible for 8 per cent of all CO2 emissions
- **Knowledge survey results – A third of practitioners do not have easy access to the knowledge they need.**
- BIM Plus, 10 Jan – Will BIM turn contractors into manufacturers?
- Construction Enquirer, 9 Jan – Crossrail bosses cannot confirm a revised opening date for the delayed project.
- Scottish Construction Now, 9 Jan – The infrastructure projects behind the Glasgow Region City Deal.
- Mace, 8 Jan – Mace appointed for the construction of the £150 million arrivals terminal at London Stansted.
- **Construction Manager, 9 Jan – How has the construction changed since Carillion’s collapse (see further information above).**
- **ADF, 7 Jan – Construction starts on The Kite in Elephant and Castle.**
- Construction Enquirer, 8 Jan – Laing O’Rourke makes refinancing deal with banks.
- BSRIA, 7 Jan – Free webinar about the Soft Landings Framework 2018.
- BREEAM Workshops – How knowledge-sharing workshops have generated articles for BREEAM Wiki.

**‘Designing Buildings Wiki’ is an industry-wide, cross-discipline forum for finding and sharing information, covering the following subject areas incl.**

<b>‘Designing Buildings Wiki’ categories</b>			
<b>Project Plans</b>	<b>Project activities</b>	<b>Legislation and Standards</b>	<b>Industry context</b>
Building Information Modelling (BIM)	Appointments	Case law	Conservation
Construction manager	Client procedures	Health and safety / CDM	Education
Design and build	Construction management	Other legislations	History
Management contract	Construction techniques	Planning permission	International
Public project	Contracts / payment	Policy	Organisations
Self-build home	Cost / business planning	Property law	Projects and case studies
Traditional contract	Design	Regulations	Publications / reports
	Procurement	Standards / measurements	Research / Innovation
	Products / components	Sustainability	Theory
	Property development	Taxation	
	Public procedures		
	Roles / services		

Source: **Designing Buildings.co.uk Wiki**, (2019) [online]. Further information is available at: [www.designingbuildings.co.uk/wiki/Home](http://www.designingbuildings.co.uk/wiki/Home) [accessed 25 January 2019]

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## [‘Designing Buildings Wiki’ presents the most popular articles in each of their 32 subject areas/categories](#)

To celebrate reaching 5,000 articles, ‘Designing Buildings Wiki’ presented the most popular article in each of their 32 subject areas/categories (identified above)

Direct hyperlinks are provided to each individual article identified and can be accessed via the source provided below.

### Category – Project Activities

SUBJECT AREA	MOST POPULAR ARTICLE
1. Appointments	Design and build
2. BIM	Level of detail
3. Client procedures	Project brief
4. Contracts/Payment	Variations
5. Construction management	Tender documentation
6. Construction techniques	Value engineering
7. Cost / business planning	Bill of quantities
8. Design	Types of drawings
9. Procurement	Preliminaries
10. Products / components	Pile foundations
11. Property development	Building design and construction fees
12. Public procedures	Procurement routes
13. Roles / services	Architect’s fees

### Category – Legislation

SUBJECT AREA	MOST POPULAR ARTICLE
14. Case law	Contract vs tort
15. Health and safety / CDM	CDM 2015
16. Other legislation	Method statement
17. Planning permission	Section 278 agreements
18. Policy	Building information modelling
19. Property law	Building regulations
20. Regulations	U-values
21. Standards / measurements	Types of drawings
22. Sustainability	Sustainability in building design and construction
23. Taxation	Construction VAT

### Category – Industry context

SUBJECT AREA	MOST POPULAR ARTICLE
24. Conservation	Defects in brickwork
25. Education	Construction methods
26. History	The UK construction industry
27. International	Why so many women leave engineering
28. Organisations	Construction industry acronyms
29. Projects and case studies	The Big Bend, New York
30. Publications / reports	Latham Report
31. Research / innovation	3d printing
32. Theory	Risk in building design and construction

You can access, read online and gain direct links to the most popular articles @

Source: **Designing Buildings.co.uk Wiki**, (2017) 'Most popular articles in each subject area' [online], last edited 11 May 2017. Further information is available at: [www.designingbuildings.co.uk/wiki/Home\\_and\\_www.designingbuildings.co.uk/wiki/Most\\_popular\\_articles\\_in\\_each\\_subject\\_area](http://www.designingbuildings.co.uk/wiki/Home_and_www.designingbuildings.co.uk/wiki/Most_popular_articles_in_each_subject_area) [accessed 25 January 2019]

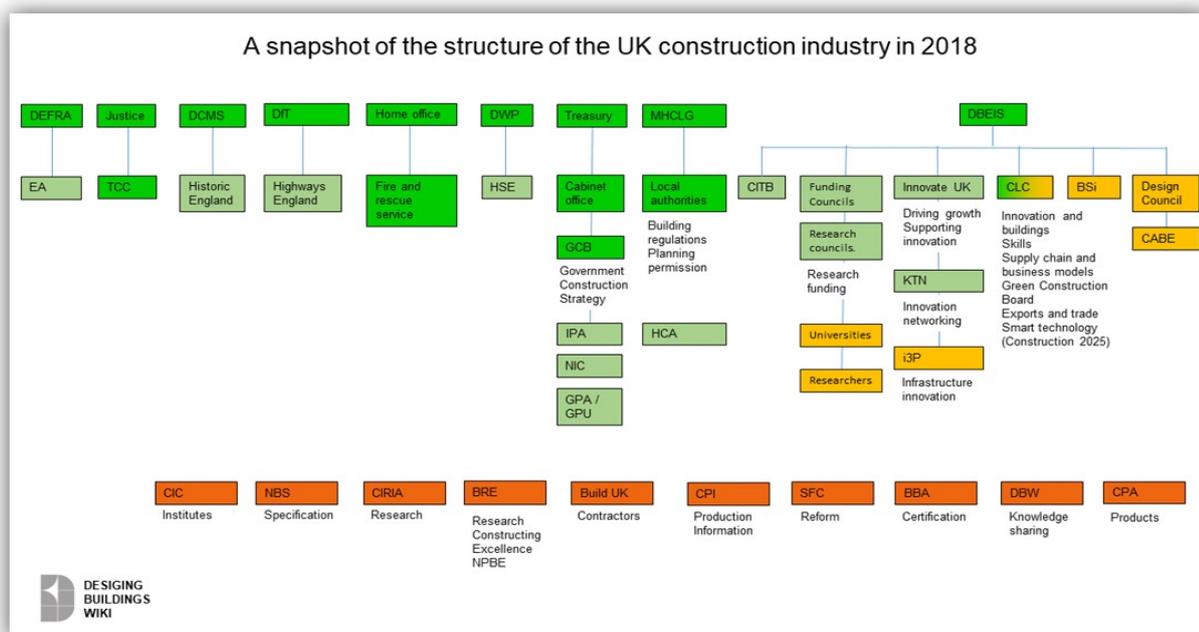
**Related Link:**

**Designing Buildings.co.uk Wiki**, (2017) 'Types of drawings' [online], last edited 5 October 2018. Further information is available at: [www.designingbuildings.co.uk/wiki/Home\\_and\\_www.designingbuildings.co.uk/wiki/Types\\_of\\_drawings\\_for\\_building\\_design](http://www.designingbuildings.co.uk/wiki/Home_and_www.designingbuildings.co.uk/wiki/Types_of_drawings_for_building_design) [accessed 25 January 2019]

- 'Designing Buildings Wiki' most popular article in 2018 and was read more than 150,000 times.

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**Fragmentation of the UK construction industry**



Source: **Designing Buildings.co.uk Wiki** (2018), 'Fragmentation of the UK construction industry' [online], last edited 8 June 2018. Further information is available at: [https://www.designingbuildings.co.uk/wiki/Fragmentation\\_of\\_the\\_UK\\_construction\\_industry](https://www.designingbuildings.co.uk/wiki/Fragmentation_of_the_UK_construction_industry) [accessed 25 January 2019]

The UK construction industry has always been complex and diverse, and the modern industry, with its separation of design and construction has to some extent always been fragmented. But despite the development of the 'design and built' procurement route, integrated project teams and the introduction of collaborative practices, there is strong evidence that industry fragmentation has become progressively worse since the 1950s. This is thought to contribute to poor performance, low investment, poor skills and a lack of innovation.

This was recognised as early as the Ministry of Works 'Survey of Problems before the Construction Industries' (the Emmerson Report) published in 1962, but most notably it was highlighted in Sir Michael Latham's 1994 report 'Constructing the Team', which notoriously described the industry as 'ineffective', 'adversarial', 'fragmented' and 'incapable of delivering for its customers'.

One of the reasons for the fragmentation of the industry is that buildings have become more complicated. Britain emerged from the Second World War with a construction industry dominated by very large contractors that had grown from war time work and were rebuilding a country ravaged by the Blitz. Wimpey were the biggest of these contractors, directly employing most of the labour necessary to execute its projects. Taylor Woodrow, even with half the annual turnover of Wimpey, employed 40,000 people.

Today however, as buildings have come more complex, it is less and less likely that any one contractor will have the required skills to carry out all the works necessary to construct them, and it does not make good commercial sense to take on new employees for one project that would then have to be laid off for the next. Increasingly therefore, contractors use sub-contractors to carry out particular elements of the works.

On a straight-forward 'traditional' project, design consultants and the main contractor, sometimes referred to as tier 1 suppliers, work for the employer, and the main contractor may have a limited chain of their own suppliers. However, the situation becomes more complicated on large projects, where the employer may have a significant number of tier 1 suppliers, all with complex and extended supply chains of their own, some of whom may be completely unknown to the employer at the top of the chain.

A report published by EC Harris in 2013 suggested that for a large building project in the £20- £25 million range, the main contractor may be directly managing around 70 sub-contractors of which a large proportion had a relatively low value of £50,000 or less.

*Construction 2025*, published in 2013 also pointed to a high degree of fragmentation, even when compared to other sectors or to countries such as the USA, France and Germany. This, it has been suggested, is because the UK has a higher level of sub-contracting driver, in part by the relatively high proportion of self-employment and a high number of small and micro businesses.

The *Government Construction Strategy 2016 2020* (published in 2016) reported that the industry was dominated by a staggering 956,000 SMEs, which accounted for 99% of businesses. However, *Construction 2025* suggested that the industry's customer base was even more fragmented, with much of the industry's workload coming to it on a one-off, piecemeal basis. This was also referenced by the *Government Construction Strategy 2011 2015* (published in May 2011) which pointed to a fragmentation of the public-sector client base.

Government oversight of the construction industry is spread across many departments, with no clear single point of responsibility. For example, the Department for Business Innovation and Skills (BIS) is responsible for *Construction 2025*, but HM Treasury is responsible for the Government Construction Strategy. In 2007/8, the Building Research Establishment (BRE) reportedly characterized the number of public sector bodies with an interest in construction as 'a completely fragmented mess'.

There was an attempt to tackle this problem in 2009, with the appointment of a Chief Construction Adviser, intended to provide cross-departmental coordination and leadership on construction industry policy. However, this position was scrapped in November 2015. This departmental situation was simplified a little in 2018 by the creation of the Ministry of Housing, Communities and Local Government (MHCLG), but there is still no overall government responsibility for the industry.

The internal organisation of the industry itself does not help, with an estimated 300 institutes, associations and other bodies representing each of the individual factions that now exist through the intended supply chain. This leads to a wasteful and ineffective duplication of effort in some areas and leaves gaping holes in others.

**See Construction industry institutes and associations (A-F and G-Z) below for more information.**

For further information on this and other related subjects, please visit

Source: **Designing Buildings.co.uk Wiki** (2018), 'Fragmentation of the UK construction industry' [online], last edited 14 June 2018. Further information is available at:

[www.designingbuildings.co.uk/wiki/Fragmentation\\_of\\_the\\_UK\\_construction\\_industry](http://www.designingbuildings.co.uk/wiki/Fragmentation_of_the_UK_construction_industry) [accessed 25 January 2019]

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## Construction industry institutes and associations

-This list is for institutes, associations and other bodies that might be considered to represent part of the construction industry.

*Designing Buildings Wiki*, 'Construction industry institutes and association', **A to F** [online]. Available at: [www.designingbuildings.co.uk/wiki/Construction\\_industry\\_institutes\\_and\\_associations\\_A\\_to\\_F](http://www.designingbuildings.co.uk/wiki/Construction_industry_institutes_and_associations_A_to_F) [accessed 25 January 2019]

*Designing Buildings Wiki*, 'Construction industry institutes and association', **G to Z** [online]. Available at: [www.designingbuildings.co.uk/wiki/Construction\\_industry\\_institutes\\_and\\_associations\\_G\\_to\\_Z](http://www.designingbuildings.co.uk/wiki/Construction_industry_institutes_and_associations_G_to_Z) [accessed 25 January 2019]

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## Designing Buildings Wiki – Student resources

**Designing Buildings Wiki – Student resources** [online] and available at:

[www.designingbuildings.co.uk/wiki/Student\\_resources](http://www.designingbuildings.co.uk/wiki/Student_resources) [accessed 25 January 2019] – *Designing Buildings Wiki* has a wide range of resources aimed at students of the built environment, incl.

**Career guides** – How to become an architect; How to become a civil engineer; How to become a construction manager; How to become an engineer; How to become a quantity surveyor; and how to become a landscape designer.

**Course guides for** – Architecture; BIM; Civil engineering; Commercial management and quantity surveying; Construction engineering management; Construction project management; and Urban design

**Dissertation guides**, and

**Universities** (incl. UCEM) and **Colleges**.

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### **NOTE: Use of Wikipedia as a reference site:**

Wikipedia and use of other Wiki are increasingly being used by people in the academic community, as an easy source of information about anything and everything. However, citation of Wikipedia may not be considered acceptable, because Wikipedia is not a creditable source.

It is important to note that whilst Wikipedia may be one of the Web's most popular reference sites, it is not classed as a credible resource because anyone can be a contributor to the website.

This can be avoided by following two simple rules:

- Remember that any encyclopaedia (which includes Wikipedia and any other wiki) can be a good starting point for research, and not an ending point.
- An encyclopaedia can be good for getting a general understanding of a subject before you extend your study of the subject further. But you then must consider the subject in more depth using books, journal articles and other appropriate and credible resources. What you find in these other sources of information will be more detailed, more precise, and more carefully reasoned than the summary you found in an encyclopaedia. The sources you reference/cite in your work will therefore be these more detailed sources you have used.

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## **The Construction Information Service (CIS)** – *Insight 01/2019 Edition*

- *CIS Insight* (01/2019 Edition) –

This month's *Insight* focuses on 'Hyperloop: Shaping the future of transport'. This is a Two-part series, and covers

- Changing the way we live, work and travel
- Concept history and benefits of adopting (part 1)

- What's been developed and challenges faced (part 2)

### Abstract

With rapid population growth and increased demand for resources being two of the major challenges the construction industry is currently facing, PlanBEE student Will Marshall looks at how Hyperloop could potentially revolutionise the way we live, work and travel. In part one, he looks at the history behind the concept and the benefits of adopting it.

### Contents

- **What is Hyperloop?**
- **Background** Incl. Core concept and technical details
- **Why do we need Hyperloop?** Incl. To solve current transportation problems, To widen employment and living opportunities, Better for the environment, and A safer way to travel being covered.
- **Hyperloop companies and start-ups** Incl. Hyperloop Transportation Technologies (HTT), and Virgin Hyperloop One.

Further information, advice and guidance is provided via the below source link:

Source: NBS (2018), The Construction Information Service (CIS) – *Insight 01/2019: Hyperloop – Shaping the future of transport. Part 1* [online]. Further information available at: <http://www.ihsti.com/CIS/document/324769> [accessed 25 January 2019]

**Please note:** CIS can be accessed through the **Athens gateway** (via the VLE e-Library) and by selecting '**IHS Information Services**'. The Briefing can be downloaded from the CIS homepage.

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## The Smith Institute

The Smith Institute is a leading independent 'think tank' which promotes progressive policies for a fairer society. They provide a high-level forum for new thinking and debate on public policy and politics. Through research, reports, briefings, monographs, events, lectures, education, and our website, the Institute offers a platform for thought leadership on a wide range of topics incl.

- **Economy and Finance** - This policy theme includes work on macro-economics, trade, tax and finance. The Smith Institute's work in this area has looked at the relationship between fairness and a strong economy.
- **Government and Politics** - The Institute is interested in constitutional reform, active citizenship and political participation. Future work will be exploring voting trends, the interplay between politics and policymaking and improving political engagement.
- **Sustainability and Environment** – The Institute's work in this field has looked at food supply, homeworking, eco-housing, and energy policy.
- **Business and Third Sector** - This policy theme includes work on the business, corporate responsibility, access to finance, charitable giving and social enterprises. This year our work in this area will be focusing on corporate governance, business and rebalancing the economy, and the third sector and public services.
- **Local Government Cities and Regions** - This policy theme includes work on the devolution and regional economic disparities and development. The economic downturn is exacerbating the gap between London (and the Greater Southeast) and other areas of the UK. Set against this backdrop the Institute is continuing work on city-regions, economic geography and localism.
- **Housing and Regeneration** - This policy theme includes work on social housing, private rented sector, eco-towns, regeneration, suburbia, and urban renewal. The Institute's work this year will be mainly focused on funding social housing, eco-homes, and place-making.
- **Work and Welfare** - This policy theme includes work on wages, good work employment, welfare, worklessness, pay, outsourcing and skills. The Institute recently undertook a major inquiry into making undertaken by Ed Sweeney (former chair of ACAS) into Making Work Better. This report was widely welcomed including support from the Labour party, unions and the EEF. The Institute's future work programme is going to focus on procurement, living wage, employment protection and will focus on some of the main themes from the *Making Work Better* report.
- **Education and Families** – The Institute's work in this policy area has looked at all levels of formal education and on early intervention policies. The Institute believe that it is far better and fairer for individuals and society, and makes clear economic sense, to intervene early before problems develop in later life.

- **Health and Wellbeing** - This policy theme covers work on healthcare, healthy living and mental health. The Institute are interested in health and social care, the delivery of efficiencies and fairness in the NHS, and health prevention. Future work will be focusing on the impact of the health and social care act, the ageing society, integration and public health.
- **Security and Criminal Justice** - This policy theme includes work on the criminal justice system, reducing re-offending and issues around combatting terrorism and national security. The Institute aim to undertake further research on offender management and security policy.
- **EU and International** - This policy area include work on the European Union, trade, and Britain's relationship with the international community and role in the world. The Institute have published a collection of essays on social Europe which, it is hoped will be followed up this year. The Institute also aim to undertake further work on economic nationalism and globalisation.

The Institute's activities are informed by a network of well-known experts, policy makers, research fellows and patrons. Based in London, it works in partnership with a range of public and private organisations, foundations and charities. As a charity, The Smith Institute had an excellent track record in influencing and shaping public policy, and extensive national and international contacts. Over the last decade it held over 500 events and published more than 150 reports – including *'Working together – thinking alike: What do councils and local enterprise partnerships expect from housing associations'* (as mentioned earlier in this issue), with contributions from Prime Ministers and MPs to archbishops and chief executives. The Smith Institute, recently reconstituted as a not-for-profit organisation, will sustain and develop this record of achievement, and maintain its reputation and influence in Westminster and Whitehall.

**N.B. The newly updated Smith Institute website** [online]. Further information is available at: [www.smith-institute.org.uk/](http://www.smith-institute.org.uk/) [accessed 25 January 2019]



<https://www.facebook.com/pages/The-Smith-Institute/251600568286?v=wall> [accessed 25 January 2019]



[https://twitter.com/smith\\_institute/](https://twitter.com/smith_institute/) [accessed 25 January 2019]

**Policy Tracker**

on The Smith Institute's website [online] and available @ [www.smith-institute.org.uk/?page\\_id=66](http://www.smith-institute.org.uk/?page_id=66) [accessed 25 January 2019]

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## Latest Research from The Smith Institute incl.

### ***Safe as Houses 2: A follow-on report into the impact of Universal Credit on Southwark Council's housing tenants rent payment behaviour***

This report was commissioned by the London Borough of Southwark. Its purpose is to examine the impacts that Universal Credit (UC) has had on the rent payment behaviours of the borough's own social housing or 'council' tenants.

To meet this objective the report scrutinises and compares the experiences of two groups of tenants that have transitioned onto UC at different times: the first doing so between August-October 2016 and the second between August-October 2017.

The analysis in this report follows on from the Smith Institute's previous UC impact study for Southwark Council, *'Safe as Houses: the impact of Universal Credit on tenants and their rent payment behaviours in the London boroughs of Southwark and Croydon, and Peabody'* (October 2017).

The previous study, which involved other social landlords whose tenants were affected by the early experience of UC full service rollout, examined the impact of UC roll-out on rent payments among those claiming the new benefit compared with those on Housing Benefit (HB).

This latest study draws on that research and seeks also to understand the longer-term impact of UC on rent payment behaviour. The report also addresses whether the rent payment behaviour of the new cohort (the 2017) group, who started claiming UC after the system had more time to bed in, was different, and, if so, in what way?

The analysis is exclusively focused on tenant's rent accounts. It does not examine the human cost and personal impacts of UC, which were explored in the previous the report. Nor does the analysis provide details on the extremely costs either to tenants (such as increased levels of personal debt to cover rent when waiting for UC payments) or to the landlord (increased cost and workloads of officers supporting tenants). The analysis reflects the experience of those who are known to have made an effective claim for UC either between August and October 2016 or August and October 2017. The Council has no way of knowing whether any of those who claimed UC continued to do so, or for what period. What the Council does know is that all those whose rent accounts were analysed for purposes of the research had "migrated" to UC and the new arrangements for meeting housing cost support for those of working age reliant on the benefit system to help pay their rent that were an integral feature of UC.

These findings do not take account of several significant changes to UC policy announced in Budget 2017 and that were fully implemented from April 2018 – for example the abolition of the seven-day waiting period and the introduction of a two-week housing benefit run-on. The impacts of those changes will be considered as part of a planned, third wave of *Safe As Houses* research, results of which are expected to be available in spring 2019.

Hunter P, Smith Institute (2018), '*Safe as Houses 2: A follow-on report into the impact of Universal Credit on Southwark Council's housing tenants rent payment behaviour*' [online]. Further information is available at: [www.smith-institute.org.uk/book/safe-as-houses-2-a-follow-on-report-into-the-impact-of-universal-credit-on-southwark-councils-housing-tenants-rent-payment-behaviour/](http://www.smith-institute.org.uk/book/safe-as-houses-2-a-follow-on-report-into-the-impact-of-universal-credit-on-southwark-councils-housing-tenants-rent-payment-behaviour/) [accessed 25 January 2019]

Further information and access to the series incl.: **All Reports; Housing; Other policy areas** Tagged with: 2018.

The Smith Institute, Publications [online] and available at: [www.smith-institute.org.uk/?post\\_type=books](http://www.smith-institute.org.uk/?post_type=books) [accessed 25 January 2019]

#### **Related Link:**

Hunter P, Smith Institute (2017), '*Safe as houses: The impact of universal credit on tenants and their rent payment behaviour in the London boroughs of Southwark and Croydon, and Peabody*' [online]. Further information is available at: [www.smith-institute.org.uk/book/safe-houses-impact-universal-credit-tenants-rent-payment-behaviour-london-boroughs-southwark-croydon-peabody/](http://www.smith-institute.org.uk/book/safe-houses-impact-universal-credit-tenants-rent-payment-behaviour-london-boroughs-southwark-croydon-peabody/) [accessed 25 January 2019]

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### ***The hidden costs of poor quality housing in the North***

Sub-standard private housing is a major problem in the North, yet the issue is overlooked and rarely discussed. The problem affects all three regions and is a particularly urgent concern for many older homeowners. Nearly 1m owner-occupied homes in the North now fail to meet the decent homes standard in addition to 354,000 private rented homes. This is also a national problem, but worse in the North where there are concentrations of pre-war, low value properties.

There have been improvements in housing conditions across the North, notably for social housing (only 9% of social housing is now non-decent), but more and more private homes are falling into disrepair. Nearly half of all non-decent homes in the North have at least one person with a long-term illness or disability or over 60 – well above the England average. Poor condition housing harms people's health and well-being. It also carries considerable costs for the NHS and social care system, as well as negative economic, welfare and environmental impacts.

The problem is largely hidden and has been made worse by the economic downturn and a national policy bias towards new build in high demand (mainly Southern) areas. Making all homes in the North decent would be a significant cost, through there is strong evidence that this intervention would be offset against reduced care and health costs. The government could start to address this challenge through increased home improvement grants under a new Decent Private Homes programme and new devolution housing deals, part funded by the savings

gained from housing improvements and a creative approach to help people to stay in improved homes or be given the choice to move to a property they are confident better suits their needs.

Opening the debate on the costs and benefits of poor condition homes in the North is an important first step in developing such an agenda for change.

Further information and access to the series incl.: **All Reports, Housing**. Tagged with: **2018**

The Smith Institute (2018), *'The hidden costs of poor-quality housing in the North'* [online]. Further information is available at: [www.smith-institute.org.uk/book/the-hidden-costs-of-poor-quality-housing-in-the-north/](http://www.smith-institute.org.uk/book/the-hidden-costs-of-poor-quality-housing-in-the-north/) [accessed 25 January 2019]

The Smith Institute, Publications [online] and available at: [www.smith-institute.org.uk/?post\\_type=books](http://www.smith-institute.org.uk/?post_type=books) [accessed 25 January 2019]

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### ***Out of Contract: Time to move on from the 'love in' with outsourcing and PFI***

The pressure on government departments, public bodies and local government to outsource public services has intensified since the 2010 election. This growing trend towards contracting out is largely being driven by fiscal austerity and the relentless search for budget savings. But also, by the Conservative Party's deep-rooted belief in marketisation, privatisation and desire for a smaller state.

Contracting out has become part of the DNA government. But, how effective has it been for the public sector and the companies concerned; has it really delivered the promised savings and improvements in service delivery; and what have been the social and human costs? It is these questions that David Walker and John Tizard address in this timely and insightful policy discussion paper, the first in The Smith Institutes 2018 series of "what needs to change" talking points.

Walker D, and Tizard J, The Smith Institute (2018), *Out of Contract: Time to move on from the 'love in' with outsourcing and PFI* [online]. Further information and access to the report is available at: [www.smith-institute.org.uk/book/contract-time-move-love-outsourcing-pfi/](http://www.smith-institute.org.uk/book/contract-time-move-love-outsourcing-pfi/) [accessed 16 January 2019]

The Smith Institute, Publications [online] and available at: [www.smith-institute.org.uk/?post\\_type=books](http://www.smith-institute.org.uk/?post_type=books) [accessed 25 January 2019]

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### ***#notjustfor boys / women in construction***

- This collection of essays highlights the barriers to working in the construction industry that women face and demonstrates how things can be improved

It is two years since The Smith Institute first published this collection of essays. Over that time the number of women in work has increased to nearly half the workforce, with many more in professional and technical jobs. Unfortunately, one area where change has been less forthcoming is the number of women working in construction and the manual trades.

Nevertheless, efforts are being made by employers, unions, professional organisations, government, schools, training agencies and others to encourage more women into the construction industries and offer support once in work. This kind of concerted action to significantly improve both recruitment and retention is far from easy, but as the Construction Youth Trust's #notjustforboys campaign (more details are at the end of the report) shows misconceptions, prejudice and bad practices that are at the root of the problems can be over-turned and young people can be inspired to think differently. Worsening skills shortages and the prospect of post-Brexit restrictions on migrant labour mean UK construction will have to recruit more women. Failure to act will damage our future prosperity.

Jowett A, Bagilhole B, Townley C [et al.], September 2016, *#notjustforboys – women in construction* [online]. Further information and access to the report is available at: [www.smith-institute.org.uk/book/notjustforboys-women-construction/](http://www.smith-institute.org.uk/book/notjustforboys-women-construction/) [accessed 25 January 2019], London: The Smith Institute

The Smith Institute, Publications [online] and available at: [www.smith-institute.org.uk/?post\\_type=books](http://www.smith-institute.org.uk/?post_type=books) [accessed 25 January 2019]

**Related link:**

The Guardian picture essay – **Women in construction: building a career in a challenging environment**

- Guardian photographer Alice Canter photographs 12 women working in the UK construction industry and talks to them about their experiences.

Canter A (2018) 'The Guardian picture essay – Women in construction: building a career in a challenging environment', *The Guardian* [online], 8 October. Available at: [www.theguardian.com/business/2018/oct/08/women-in-construction-building-a-career-in-a-challenging-environment](http://www.theguardian.com/business/2018/oct/08/women-in-construction-building-a-career-in-a-challenging-environment) [accessed 25 January 2019]

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## **National Trust (NT) - Big Issues (incl. 'Transport & Tourism' and 'Land-use & planning') and their views**

The National Trust is 'a charity that works to preserve and protect historic places and spaces – for ever, for everyone' (NT, 2015). The National trust protect historic houses, gardens, mills, coastlines, forests, woods, fens, beaches, farmland, moorland, islands, archaeological remains, nature reserves, villages and pubs. While they are very passionate about open spaces and historic places, they also work hard in other areas too, including the environment, food, farming, transport and heritage – to name but a few.

Most of the work they do though is affected by much wider global issues, which is why their interests extend far beyond just bricks and mortar.

The National Trust [online] and available @ [www.nationaltrust.org.uk/](http://www.nationaltrust.org.uk/) [accessed 25 January 2019]

Please refer to

'The National Trust' 

'Our cause'  and select either

**Nature & Wildlife; Heritage** (including information on Building Conservation); **News; Land & Landscape** (including information on Landscape, Coastline and Energy); **&/or Food**

The National Trusts work can be affected by wider national even global issues. Further information is available @ [www.nationaltrust.org.uk/our-views](http://www.nationaltrust.org.uk/our-views) [accessed 25 January 2019]

### **NT, Big issues - Transport and tourism –**

- The NT, Big issues - Transport and tourism and how special places have been impacted by the High-Speed Rail 2

Source: The National Trust (2018), What we do, Big Issues, Transport and tourism [online]. Further information is available @ [www.nationaltrust.org.uk/our-views](http://www.nationaltrust.org.uk/our-views) [accessed 25 January 2019]

**Social Media Links to follow for National Trust:**

**&**

### **NT, Big issues – Land & Landscape (incl. Land-use & planning)**

Please refer to

'The National Trust' 

'Our cause' 

'Land & Landscape' 

'Landscape'  and select

'Land-use & Planning' 

Where you can access The National Trusts 'Planning Principles' and an article on 'Planning at a national level'

**Land-use and planning** [online]. Further information is available at: [www.nationaltrust.org.uk/features/land-use-and-planning](http://www.nationaltrust.org.uk/features/land-use-and-planning) [accessed 25 January 2019]

**Reference:**

**Land & Landscape** (including information on Landscape, Coastline and Energy) [online]. Further information is available at: [www.nationaltrust.org.uk/land-and-landscape](http://www.nationaltrust.org.uk/land-and-landscape) [accessed 25 January 2019]



<https://twitter.com/nationaltrust/> [accessed 25 January 2019],



<https://www.facebook.com/nationaltrust> [accessed 25 January 2019],



<https://www.youtube.com/user/nationaltrustcharity/> [accessed 25 January 2019]

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## Why the National Trust cares about planning

Land-use planning is a key tool to help the National Trust look after the nation's special places. It can also help society to create great places for people to live, work and play, and deliver a healthier, more beautiful natural environment – two key parts of the new National Trust strategy. That's why they regularly take part in the planning system and support a plan-led system to deliver good development which meets long term needs.

An effective planning system guides good, necessary development to the right places, making an important contribution to prosperity and growth. It ensures that poorly designed developments and those in the wrong place don't get built. It delivers the new homes, shops and services that communities want, where they want them. And it protects the things that matter to us all; from much-loved open spaces, green fields and productive agricultural land to our historic city centres, towns and villages.

A planning system should:

- Be balanced - to integrate environmental, social and economic concerns
- Safeguard the public's interest - protect countryside, heritage and nature
- Start from what people value about their place

National Trust (2018), *Why the National Trust cares about planning* [online] and further information is available at @ [www.nationaltrust.org.uk/features/land-use-and-planning](http://www.nationaltrust.org.uk/features/land-use-and-planning) [accessed 25 January 2019]

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## National Trust – “Our planning principles”

“Our planning principles are used to guide us in our decision-making on the way land is developed and managed.” (National Trust, 2016)

These principles are used to guide the National Trust in their decision making about land use and planning incl.

**Seeking to influence** – The National Trust seek to influence the Planning system at local, regional and national levels in accordance with their statutory purpose and will promote an integrated approach to sustainable development.

**Supporting spatial planning** – The National Trust support spatial planning which takes a holistic approach to the environment and its resources, plans long-term, looks at the landscape, catchment or coastal ‘cell’ scale and considers climate change implications.

**Sensible management** – The National Trust promote the wise management of the natural environment and built and cultural heritage, for our future generations, and will support high design quality.

**Protecting our environment** – The National Trust will seek to protect wild and remote landscapes from built development or urbanisation, especially where it impacts on their properties.

**Using property management plans** – In managing its land through property management plans, the National Trust will support and help to achieve the objectives of any designated landscape, wildlife, or historic sites and arenas.

**Objecting to proposals, where appropriate** – The National Trust will object to land use or marine-based proposals that have a significant adverse impact on its properties and their settings and context, or in its wider interests.

**Using a sustainable construction approach** – When proposing development on their land to meet justified needs, the National Trust will use a sustainable construction approach. This will include:

- Minimising resource use and generation of waste,
- Being energy efficient,
- Minimising or preventing all types of pollution and risk of flooding,
- Safeguarding important wildlife, landscape and historic interests,
- Respecting local/regional distinctiveness, supporting local sources for goods and services where practical, and
- Encouraging community involvement and access

National Trust (2018), *Our planning principles* [online] and further information is available @ [www.nationaltrust.org.uk/features/our-planning-principles](http://www.nationaltrust.org.uk/features/our-planning-principles) [accessed 25 January 2019]

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## **National Trust – “How we engage in planning: our role as a developer”**

“We are an independent conservation charity looking after a quarter of a million hectare of land, 775 miles of coastline, hundreds of houses and thousands of archaeological monuments and historic buildings, large and small.” (National Trust, 2016)

### **The National Trust’s planning procedure**

In the course of National Trust work, they’re responsible for some new development. Whether it’s for a new visitors’ centre or a new green energy project, this means that they’re a participant in the planning system. Sometimes they apply for a change of use of a building to give it a productive future use or to aid farm or estate diversification.

Very occasionally the National Trust seek to develop ‘investment’ land to meet an identified housing need. Sometimes donors specifically offer land with development potential to help pay for conservation work in the future.

The National Trust’s conservation purposes are paramount so in all cases where they apply for planning permission, they look to include sustainable development principles, seeking to minimise resource use, waste and pollution; safeguard landscape, wildlife and historic interest; respect local distinctiveness; and provide better access, and a safe and healthy environment.

The National Trust have developed the following criteria to ensure only suitable projects proceed:

- Adhere to the policies in the relevant local plan.
- Deliver energy efficiency and reduce carbon dioxide emissions.
- Build in harmony with the local environment, built and natural.
- Involve the local community throughout the process.

The vast majority of National Trust land is held forever, for everyone. Less than 0.01% is currently allocated for housing in local plans and proposed for development by the Trust.

When the National Trust release land for development, they aim to use it to show what good housing can look like.

The National Trust sell land for development when they are completely satisfied that any proposed scheme is the best possible solution for the area and passes a rigorous set of design and environmental standards they apply as part of their decision-making process.

Some case studies are provided and include:

- Pyrland, Taunton, Somerset
- Dean Park, Bovey Tracey, Devon
- Erddig, near Wrexham, North Wales
- Stamford Brook, Cheshire

For further information and access to these case studies, visit

Source: National Trust (2018), *How we engage in planning: our role as a developer* [online] and further information is available @ [www.nationaltrust.org.uk/features/how-we-engage-in-planning-our-role-as-a-developer](http://www.nationaltrust.org.uk/features/how-we-engage-in-planning-our-role-as-a-developer) [accessed 25 January 2019]

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## **Planning at a national level**

- Across England, Wales and Northern Ireland, the National Trust look after a quarter of a million hectares of land, 775 miles of coastline, and thousands of archaeological monuments and historic buildings, large and small. Every year many millions of people enjoy the special places in the National Trust's care.

**The National Trust's role** - As an organisation rooted in the importance of place, the Trust has always looked beyond its own boundaries to achieve its core purpose. Founded to preserve and provide access to places of natural beauty or historic significance, the National Trust supporters were a voice against urban sprawl and ribbon development in the 1920s, and advocates of the Town and Country Planning Act, which became law in 1947.

**Government's planning rules for housing development and land use** – The Government's National Planning Policy Framework (NPPF) is the main set of rules that apply to planning decisions and local plan-making in England. The NPPF, introduced in March 2012, should ensure that development is steered to the most appropriate places. Planning development should not be weighted in the interests of purely economic development, but integrate the needs of people, places and the economy.

When the NPPF was being drawn up, the Prime Minister wrote to the National Trust to reassure them that 'our magnificent countryside' would continue to be protected. The Prime Minister at the time said the reforms would 'maintain protections for the green belt, for National Parks and Areas of Outstanding National Beauty,' and would 'strengthen local participation'.

**Monitoring Government's plan-led system** – Since the NPPF came into force in March 2012 the National Trust has been checking that the Government's intentions are being delivered at ground level.

For further information, visit

National Trust (2018), *Planning at a national level* [online] and further information is available @ [www.nationaltrust.org.uk/features/planning-at-a-national-level](http://www.nationaltrust.org.uk/features/planning-at-a-national-level) [accessed 25 January 2019]

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## **Planning at a local level**

- At a local level, the National Trust monitor planning proposals that are likely to affect the special place in their care.

The National Trust deal with proposals ranging from anything from a house extension, through to large residential or commercial development, to new road or airport infrastructure. These will often be proposals adjacent to National Trust land, but development some distance away can also have implications on special places, for example in the form of traffic generation, or loss of habitat.

The vast majority of applications will not be an issue for the National Trust. For others, they may object, or suggest some conditions, to those which compromise National Trust purposes and sustainable development principles, or – very rarely – if they feel an unfortunate precedent might be set.

Through informed involvement, the National Trust have been able to negotiate real environmental improvements in schemes like complex infrastructure proposals, for instance on road or rail alignments.

Where it is helpful to National Trust interests, they seek to influence local transport plans, shoreline management plans, and river basin management plans.

For further information, visit

National Trust (2018), *Planning at a local level* [online] and further information is available @ [www.nationaltrust.org.uk/features/planning-at-a-local-level](http://www.nationaltrust.org.uk/features/planning-at-a-local-level) [accessed 25 January 2019]

#### **Related links:**

GOV.UK (2018), Ministry of Housing, Communities and Local Government, published: 29 November 2016, last updated: 24 July 2018, Collection: *Planning practice guidance* [online]. Available at: [www.gov.uk/government/collections/planning-practice-guidance](http://www.gov.uk/government/collections/planning-practice-guidance) [accessed 25 January 2019]

GOV.UK (2018), Ministry of Housing, Communities and Local Government, published: 27 March 2012, last updated: 24 July 2018, Policy Paper: *National Planning Policy Framework* [online]. Available at: [www.gov.uk/government/publications/national-planning-policy-framework--2](http://www.gov.uk/government/publications/national-planning-policy-framework--2) [accessed 25 January 2019]

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## **Upcoming Revo (formerly BCSC) [Research](#)**

Revo (formerly BCSC) continues to develop a research programme that reflects industry knowledge requirements. They continue to undertake challenging projects and are seeking to find a balance between in-depth research and other shorter forms of guidance. Revo (formerly BCSC)'s committees continue to help shape and steer our research and it is through this process that topical and under-researched areas are explored.

Some recently published research includes:

- Beyond Retail: Redefining the shape and purpose of town centres
- CCTV in Shopping Centres and Associated Car Parks
- Building Information Modelling (BIM) – Guide to Best Use
- Protection of Vulnerable People
- Servicing Areas for Shopping Centres

Further Research + Education information and access to documents can be found at Revo community (formerly British Council of Shopping Centres (BCSC)), Research and Education, and **Document listing** [online] available @ [www.revocommunity.org/documents/list](http://www.revocommunity.org/documents/list) [accessed 25 January 2019] and [www.revocommunity.org/insights](http://www.revocommunity.org/insights) [accessed 25 January 2019]

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## **Foster + Partners Projects**

Foster + Partner is one of the most innovative architecture and integrated design practices in the world. Over the past four decades the practice has pioneered a sustainable approach to architecture through a strikingly wide range of work, from urban masterplans, public infrastructure, airports, civil and cultural buildings, offices and workplaces to private houses and product design. Based in London, with offices worldwide, the practice has an international reputation, with buildings in six continents. By visiting their website, you can gain further information about their current and past work, upcoming projects and gain access to the following:

- Image gallery,
- Sketches and drawings,
- Construction,
- Facts & Figures, and
- Project downloads

Available via the Foster + Partners website [online] and @ [www.fosterandpartners.com/projects/](http://www.fosterandpartners.com/projects/) [accessed 25 January 2019]



<https://twitter.com/FosterPartners> [accessed 25 January 2019],



<https://www.facebook.com/fosterpartners> [accessed 25 January 2019],



<https://www.linkedin.com/company/foster-&-partners> [accessed 25 January 2019],



<https://www.youtube.com/user/FOSTERANDPARTNERS1> [accessed 25 January 2019]

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## **Building Information Modelling (BIM) -**

### **What is Building Information Modelling?**

-There are many definitions of Building Information Modelling (BIM), but it is simply the means by which everyone can understand a building through the use of a digital model. Modelling and asset in digital form enables those who interact with the building to optimize their actions, resulting in a greater whole life value for the asset.

Through BIM the UK construction industry is undergoing its very own digital revolution, BIM is a way of working; it is information modelling and information management in a team environment, all team members should be working to the same standards as one another. BIM creates value from the combined efforts of people, process and technology.

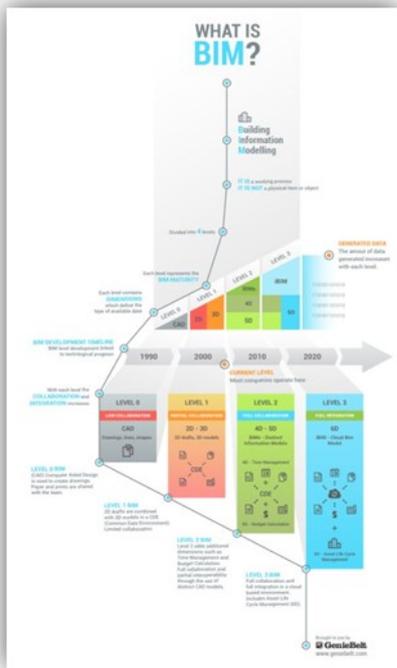
Source: National Building Specification (NBS), 19 July 2016, '*What is Building Information Modelling (BIM)?*' **theNBS.com** website [online]. Further information is available at [www.thenbs.com/knowledge/what-is-building-information-modelling-bim](http://www.thenbs.com/knowledge/what-is-building-information-modelling-bim) [accessed 25 January 2019]

**Note:** Further information can also be accessed through the above provided web link on: **BIM (Building Information Modelling)** and access to '**what is BIM**' video.

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### **The future of construction – [BIM](#)**

Building Information Modelling (BIM) can be a valuable tool in the hands of anyone who works in construction. There's no doubt that, the concept of collaborative working is becoming more and more popular through the years. That's why, it's critical for all construction agents to be aware of the different BIM maturity levels:



Source: [Designing Buildings.co.uk Wiki](http://www.designingbuildings.co.uk/wiki/The_future_of_construction_-_BIM), (2017) 'The future of construction - BIM' [online], last edited 19 June 2017. Available at: [www.designingbuildings.co.uk/wiki/The\\_future\\_of\\_construction\\_-\\_BIM](http://www.designingbuildings.co.uk/wiki/The_future_of_construction_-_BIM) [accessed 25 January 2019]

## What BIM actually is

To put it simply, BIM refers to a collaborative method of working which is based on the generation and exchange of data and information between the various project parties. Based on this information the full cycle of a building, from conception to completion, can be managed. In that sense, it's an indispensable part of the decision-making process. BIM started gaining attention in the 90's and it has evolved remarkably during the last decades.

There are different levels of shared collaboration in a construction project. Those are known as BIM maturity levels. As we proceed through the levels, the collaboration between the various sides is increasing. At the time being, there are four distinct BIM maturity levels (as shown in the figure above).

Access and further information are provided via the following:

Source: [Designing Buildings.co.uk Wiki](http://www.designingbuildings.co.uk/wiki/The_future_of_construction_-_BIM), (2017) 'The future of construction - BIM' [online], last edited 19 June 2017. Further information is available at: [www.designingbuildings.co.uk/wiki/Home\\_and](http://www.designingbuildings.co.uk/wiki/Home_and) [www.designingbuildings.co.uk/wiki/The\\_future\\_of\\_construction\\_-\\_BIM](http://www.designingbuildings.co.uk/wiki/The_future_of_construction_-_BIM) [accessed 25 January 2019]

### **NOTE: Use of Wikipedia as a reference site:**

Wikipedia and use of other Wiki are increasingly being used by people in the academic community, as an easy source of information about anything and everything. However, citation of Wikipedia may not be considered acceptable, because Wikipedia is not a creditable source.

It is important to note that whilst Wikipedia may be one of the Web's most popular reference sites, it is not classed as a credible resource because anyone can be a contributor to the website.

This can be avoided by following two simple rules:

- Remember that any encyclopaedia (which includes Wikipedia and any other wiki) can be a good starting point for research, and not an ending point.
- An encyclopaedia can be good for getting a general understanding of a subject before you extend your study of the subject further. But you then must consider the subject in more depth using books, journal articles and other appropriate and credible resources. What you find in these other sources of information will be more detailed, more precise, and more carefully reasoned than the summary you found in an encyclopaedia. The sources you reference/cite in your work will therefore be these more detailed sources you have used.

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## **The National Building Information Modelling (BIM) Library –**

Source: NBS (2016), *NBS National BIM Library* [NBS website > Home > Services > Our Tools > NBS National BIM Library] NBS [online] and available at: [www.thenbs.com/services/our-tools/nbs-national-bim-library](http://www.thenbs.com/services/our-tools/nbs-national-bim-library) & NBS homepage [online] and available at: [www.thenbs.com/](http://www.thenbs.com/) & NBS Knowledge [online] and available at: [www.thenbs.com/topics/index.asp](http://www.thenbs.com/topics/index.asp) [accessed 25 January 2019]

Latest information freely available to access and download incl. **Introducing the BIM Toolkit** [online]. Available at: [www.thenbs.com/topics/BIM/articles/NBS-live-introducing-the-BIM-toolkit.asp](http://www.thenbs.com/topics/BIM/articles/NBS-live-introducing-the-BIM-toolkit.asp) [accessed 25 January 2019]

The National BIM (Building Information Modelling) Library is the construction industry's free-to-use resource of NBS standard BIM content.

- **BIM (Building Information Modelling)**

The revolutionary force of Building Information Modelling continues to reverberate insight and analysis on BIM from NBS incl.

- **NBS Services for BIM**

NBS Services for BIM Projects; NBS Create; NBS Toolkit; NBS National BIM Library; and NBS Plug-ins

- **Further information and guidance incl.**

NBS National BIM Survey 2016; What is BIM? Levels of Information; Employers' information; Are you BIM ready? And latest articles relating to BIM

Source: NBS (2016), *NBS National BIM Library* [online] and available at: [www.thenbs.com/services/our-tools/nbs-national-bim-library](http://www.thenbs.com/services/our-tools/nbs-national-bim-library) & NBS homepage [online] and available at: [www.thenbs.com/](http://www.thenbs.com/) & NBS Knowledge [online] and available at: [www.thenbs.com/topics/index.asp](http://www.thenbs.com/topics/index.asp) [accessed 25 January 2019]

New Building Specification (NBS), NBS TV - the online video resource servicing built environment professionals.

- Case Studies • Technical Guidance • Interviews • Leading Industry Figures incl.

**Watch now on NBS TV ⇒ Design and Specification, and Building Technologies – NBS round-up latest articles featuring video content**

Source: The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website **@theNBS** [online]. Further information is available at: [www.thenbs.com/knowledge/video](http://www.thenbs.com/knowledge/video) [accessed 25 January 2019]

The NBS, NBS TV – Design & Specification [online]. Further information and additional programmes are available at: [www.thenbs.com/knowledge/design-specification](http://www.thenbs.com/knowledge/design-specification) [accessed 25 January 2019]

The NBS, NBS TV – Building Technologies, *Lighting Technology – Building in Efficiency* [online]. Further information and additional programmes are available at: [www.thenbs.com/knowledge/lighting-technology-building-in-efficiency](http://www.thenbs.com/knowledge/lighting-technology-building-in-efficiency) [accessed 25 January 2019]

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## **NBS BIM Toolkit BETA update -**

The NBS BIM Toolkit is the easy way to define who is doing what, and when, on your Level 2 BIM projects.

Further information can be accessed at The National BIM Library [online] and available @ [www.thenbs.com/services/our-tools/nbs-bim-toolkit](http://www.thenbs.com/services/our-tools/nbs-bim-toolkit) [accessed 25 January 2019]

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**NBS National Building Information Modelling (BIM) [Report](#) 2018 free to download –**



Source: [www.thenbs.com](http://www.thenbs.com)

The annual *NBS National BIM Report* is the industry's most comprehensive analysis of the state of Building Information Modelling (BIM) within the UK construction sector.

Now in its eighth year, the latest report is packed with a range of insight and expertise, it gives a snapshot of the changes the industry has been going through since the BIM mandate was implemented in April 2016.

The full, free, report is now available for download (please refer to the web-link provided below) and includes comprehensive analysis of the 2018 findings alongside unrivalled expert analysis of some of the key trends including:

- An introduction from NBS CEO Richard Waterhouse
- A warm welcome to Digital Built Britain from David Philp, Global BIM/IM Consultancy Director at AECOM
- Insights into making BIM work internationally from Peter Barker, Partner at Ryder Architecture
- May Winfield and Sarah Rock explain the idea behind the Winfield Rock Report
- Even more industry insights, and a summary of the report's key findings from NBS Head of Research, Analysis and Forecasting Adrian Malleon.

#### **What has the 2018 BIM Report shown?**

- The majority of those surveyed believe BIM will help to reduce both construction costs and completion times
- Almost two thirds of participants agree that the Government requires BIM on its projects
- BIM usage has increased by 12% compared to last year
- The number of those who have adopted BIM, but who use it only on a minority of projects has dropped from a third to around a quarter
- Lack of in-house expertise is the main barrier to BIM adoption

The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website, *NBS National BIM Report 2017 @theNBS* [online] and available at: [www.thenbs.com/knowledge/the-national-bim-report-2018](http://www.thenbs.com/knowledge/the-national-bim-report-2018) [accessed 25 January 2019]

#### **NBS National BIM Report 2017 -**

The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website, *NBS National BIM Report 2017 @theNBS* [online] and available at: [www.thenbs.com/knowledge/nbs-national-bim-report-2017](http://www.thenbs.com/knowledge/nbs-national-bim-report-2017) [accessed 25 January 2019]

#### **NBS National BIM Report 2016 -**

The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website, *NBS National BIM Report 2016 @theNBS* [online] and available at: [www.thenbs.com/knowledge/national-bim-report-2016](http://www.thenbs.com/knowledge/national-bim-report-2016) [accessed 25 January 2019]

#### **NBS International BIM Report 2016**

- The second NBS International BIM Survey, carried out by NBS, working closely with the International Construction Information Society, provides a fascinating insight into BIM adoption and maturity across five diverse countries.

Source: The NBS (a trading name of RIBA Enterprises Ltd), 25 February 2016, National BIM Library website, Knowledge, *NBS International BIM Report 2016* [online]. Further information and access to the report in full are available at: [www.thenbs.com/knowledge/nbs-international-bim-report-2016](http://www.thenbs.com/knowledge/nbs-international-bim-report-2016) [accessed 25 January 2019]

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## **[Blogging about BIM, Construction and NBS](#)**

Source: The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website [online]. Further information and access to the BLOG are available at: <http://constructioncode.blogspot.co.uk/2015/04/nbs-national-bim-report-2015.html> [accessed 25 January 2019]

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## **Latest News on BIM -**

### **[New international BIM standard launched](#)**

- The first two parts of a new international BIM standard have been published, providing a framework for managing information through collaborative working using BIM.

They form part of ISO 19650, Organisation and digitisation of information about buildings and civil engineering works, including building information modelling (BIM) – Information management using building information modelling.

Part 1 deals with concepts and principles, while part 2 covers the delivery phase of the assets.

Jøns Sjøgren, chair of the ISO technical subcommittee that developed the standards, said they will enable more widespread use of BIM and lead to more efficient building and infrastructure projects.

He said: “ISO 19650 was developed on the basis of the tried-and-tested British standard BS 1192 and publicly available specification PAS 1192-2, which have already been shown to help users save up to 22% in construction costs.”

“Taking this to an international level not only means more effective collaboration on global projects, but allows designers and contractors working on all kinds of building works to have clearer and more efficient information management.”

Future standards in the series include a Part 3 on managing the operational phase of assets and a Part 5 dedicated to security-minded building information modelling, digital built environments and smart asset management.

ISO 19650-1 and ISO 19650-2 were developed by ISO technical committee ISO/TC 59, Buildings and civil engineering works, subcommittee SC 13, Organisation and digitization of information about buildings and civil engineering works, including building information modelling (BIM).

For further information, please visit:

CM staff (2019) ‘New international BIM standard launched’, *Construction Manager* [online], 22 January.

Available at: <http://www.constructionmanagemagazine.com/news/new-international-bim-standard-launched/> [accessed 25 January 2019]

### **Related Links:**

- 1) CDBB (2018) ‘Centre for Digital Built Britain (CDBB) Year one Report: Towards a digital built Britain’ [online]. Available at: [www.cdbb.cam.ac.uk/news/2018CDBBYear1Report](http://www.cdbb.cam.ac.uk/news/2018CDBBYear1Report) [accessed 25 January 2019]
- 2) Kosandiak S, and Philp D, BIM+ Staff (2018) ‘The UK move to International BIM standards’, Chartered Institute of Building (CIOB) website [online] 7 October. Further is available at: [www.bimplus.co.uk/people/uk-move-iso-bim-standards/](http://www.bimplus.co.uk/people/uk-move-iso-bim-standards/) [accessed 25 January 2019]
- 3) GCR Staff (2018) ‘US company develops “spell checker” for BIM code violations’, *Global Construction Review (GCR)*, Chartered Institute of Building (CIOB) website [online] 22 June. Further information is available at: [www.globalconstructionreview.com/news/us-company-develops-spell-checker-bim-code-violati/](http://www.globalconstructionreview.com/news/us-company-develops-spell-checker-bim-code-violati/) [accessed 25 January 2019]

- 4) BIM+ Staff (2018) 'First international BIM standards to be published this year', Chartered Institute of Building (CIOB) website [online] 10 June. Further information is available at: [www.bimplus.co.uk/news/first-international-bim-standards-be-published-yea/](http://www.bimplus.co.uk/news/first-international-bim-standards-be-published-yea/) [accessed 25 January 2019]
- 5) Cousins S (2018) 'Blockchain could hold the key to unlocking BIM Level 3' [online], London: CIOB. Available at: [www.bimplus.co.uk/news/blockchain-could-hold-key-unlocking-bim-level-3/](http://www.bimplus.co.uk/news/blockchain-could-hold-key-unlocking-bim-level-3/) [accessed 25 January 2019]
- 6) CIOB (2018) 'Bentley launches guide to BIM' [online]. Available at: [www.bimplus.co.uk/news/bentley-launches-guide-bim/](http://www.bimplus.co.uk/news/bentley-launches-guide-bim/) [accessed 25 January 2019]
- 7) Coleman A (2017), Chartered Institute of Building (CIOB) – 'Me and my project: BIM and demolition', *Construction Manager* [online], 5 October. Available at: [www.constructionmanagermagazine.com/onsite/me-and-my-project-demolition-design/](http://www.constructionmanagermagazine.com/onsite/me-and-my-project-demolition-design/) [accessed 25 January 2019].
- 8) Papadonikolaki E and Azzouz A (2017), Chartered Institute of Building (CIOB) – 'How your 'BIM champions' can be the key to success', *Construction Manager* [online], 5 September. Available at: [www.constructionmanagermagazine.com/opinion/how-your-bim-champions-can-be-key-success/](http://www.constructionmanagermagazine.com/opinion/how-your-bim-champions-can-be-key-success/) [accessed 25 January 2019].
- 9) Butcher S (2017), Building Research Establishment (BRE) – '**Bringing BIM back to reality**', *Building4Change* [online], 15 June. Available at: [www.building4change.com/article.jsp?id=2829#.WVEI6-vytEY](http://www.building4change.com/article.jsp?id=2829#.WVEI6-vytEY) [accessed 25 January 2019] **ARTICLE #2829** (BRE).
- 10) Snook, K., 18<sup>th</sup> May 2015, Building Research Establishment (BRE), *Building4Change*, *Back to BIM Basics* [online] and available at: [www.building4change.com/article.jsp?id=2644#.VqpB-fmLRaS](http://www.building4change.com/article.jsp?id=2644#.VqpB-fmLRaS) [accessed 25 January 2019], **ARTICLE #2644** (BRE). - In the rush towards a BIM-enables construction, we should remember what lies at the core of BIM

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## Latest library resources Incl. new book titles, journal articles and research

**Taylor & Francis / Routledge** (an **informa** business) is internationally acclaimed for its high quality, peer-reviewed research, covering physical and biological science, mathematics, engineering, and computer science. **Routledge (Taylor & Francis group)** is a renowned name in academic and professional books, journals and online resources relating largely to the humanities, social sciences, the **Built Environment and Sustainability**.

### Within 'Built Environment' section, subject categories incl.

- Architecture
- Building and Construction
- Energy
- Health and Safety
- Landscape
- Planning (incl. [Rural Planning](#))
- Property
- E-books: Built Environment

### Other collections incl.

- Real Estate Development
- Property Inspection and Maintenance
- Real Estate Management
- Housing and Urban Regeneration
- Property and Real Estate Law
- Economics and Finance
- Valuation and Surveying
- [Property and Real Estate catalogue](#)
- [Property, Construction and Real Estate, Student Edition](#)

**Taylor & Francis Open** and **Routledge Open** - Taylor & Francis and Routledge currently publish several pure open access journals, with **no subscription** content. The articles in these journals receive both rigorous peer review and expedited online publication @ [www.tandfonline.com/page/openaccess](http://www.tandfonline.com/page/openaccess) [accessed 25 January 2019] For further information, please visit **Taylor & Francis online, FREE-to-view compilations** [accessed 25 January 2019].

Have you ever wanted a quick snapshot of one of our series but didn't know where to start?

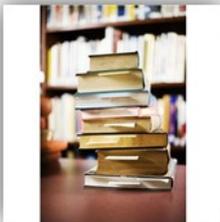
Taylor and Francis Online have compiled a selection of chapters from some of the new and key books + created individual e-books covering a range of subject areas Incl.

Further information is available at **Taylor and Francis Online**, via [www.tandfonline.com/](http://www.tandfonline.com/) and [www.routledge.com/reference/posts/4970?utm\\_source=plan&utm\\_medium=cms&utm\\_campaign=sbu3\\_vej\\_3rf\\_8cm\\_3pla\\_rf2v15\\_bls15\\_x\\_plan](http://www.routledge.com/reference/posts/4970?utm_source=plan&utm_medium=cms&utm_campaign=sbu3_vej_3rf_8cm_3pla_rf2v15_bls15_x_plan) [accessed 25 January 2019]

**The Routledge Sustainability Hub** — An innovative Knowledge Centre for the global sustainability community, this Hub offers a wide range of resources for everyone – whether you are a teacher, a student, a professional or a citizen of the earth curious to discover more about the many facets of sustainability. Further information can be accessed [online] and available at [www.routledge.com/textbooks/sustainability](http://www.routledge.com/textbooks/sustainability) [accessed 25 January 2019]

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## RICS Library services and e-Resources



Source: UCEM (2016)

RICS (Royal Institution of Chartered Surveyors) is an international professional body and represents everything professional and ethical in land, property and construction. RICS promotes and enforces the highest professional qualifications and standards in the development and management of land, real estate, construction and infrastructure. Their expertise covers property valuation and management; the costing and leadership of construction projects; the development of infrastructure; and the management of natural resources, such as mining, farms and woodland. RICS Library Services [online]. Available at: [www.rics.org/uk/footer/library-services/](http://www.rics.org/uk/footer/library-services/) [accessed 25 January 2019].

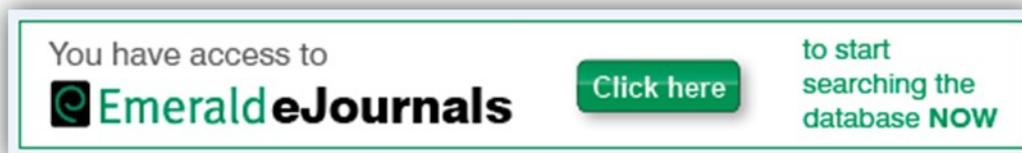
RICS Library services and e-Resources – Similar to the UCEM e-Library, RICS uses DawsonEra as their eBook platform as well as subscribing to EBSCO and Emerald e-Journals. However, whilst RICS only subscribes to 6 specialised Engineering, Construction and Architectural Management titles, **Note:**

### UCEM Library services and e-Resources incl. Emerald Insight – Access provided to the 'Property Management and the Built Environment' collection

**UCEM students and staff have access to over 120 Full-Text Journals within 'Emerald Management e-Journals', in addition to the entire (including Backfiles) 'Property Management and the Built Environment' collection including the following titles:**

- Built Environment Project and Asset Management
- Construction Innovation: Information, Process, Management
- Engineering, Construction and Architectural Management
- Facilities

- International Journal of Housing Markets and Analysis
- Journal of Corporate Real Estate
- Journal of Engineering, Design and Technology
- Journal of Facilities Management
- Journal of Place Management and Development
- Journal of Property Finance
- Journal of Property Investment and Finance
- Journal of Property Valuation and Investment
- Property Management
- Smart and Sustainable Built Environment
- Structural Survey



**NOTE:** For the above link to work you must ensure that you are logged-in to **Athens via the VLE e-Library**

Please also refer to the **UCEM e-Library portrait** and **Journal Review** mentioned below that shows a wealth of additional and valuable resources that the UCEM Library offers.

Please also note the **RICS Library Online catalogue** which is an excellent resource. Available at: <http://unicorn.rics.org/uhtbin/cgisirsi.exe/0/0/0/60/69/X> [accessed 25 January 2019]

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**& finally ....**

### **A rocky road: A look at 2018's most-read stories from *Global Construction Review* (GCR) journal**

- In a spirit of reflection GCR offer an overview, with the most-read articles in each month.

**January '18** - What about Carillion's Middle East projects? In the months leading up to the plug being yanked out on 15 January, Carillion had won several large projects in Dubai and Oman, even as it haemorrhaged cash from projects in Qatar and Saudi Arabia. After its liquidation, staff in the Middle East were left to fend for themselves.

**February** - Carillion bosses baffle MPs with details of Qatar disaster: Former bosses, including sacked chief executive Richard Howson, drew angry incredulity from MPs as they tried to explain how the company could have lost so much money on its disastrous project in Qatar.

**March** – Bridge hailed as engineering marvel collapses five days after erection: Six people died after a pedestrian bridge installed only five days earlier collapsed onto cars at Florida International University in Miami, 15 March. Hailed as a triumph of modern methods of construction, the 174-foot, 950-ton section of the bridge was built on the roadside to minimise traffic disruption before being lifted and rotated into position over a busy traffic artery. The investigation into the cause is still ongoing, but investigators concluded there were design errors in November.

**April** – Expensive London flats slashed in value by Grenfell-style cladding: The fallout from the Grenfell catastrophe continued as a woman living in a new London apartment complex with cladding like that used on Grenfell Tower was told the market value of her £475,000 home had plunged to just £50,000. Cecile Langevin 32, hired a surveyor for the valuation amidst a dispute between the developer and the body that approved and insured the complex, the national House Building Council, over who was liable for replacing the cladding. Part of this huge issue appeared to be resolved when, in November, the UK government gave councils in England the

power to strip high-rise residential buildings of their aluminum-composite material (ACM) cladding, and to charge the cost to their private sector owners.

**May** – American cities now world’s most expensive places to build thanks to low productivity: Low productivity pushing up the cost of labour was blamed for US cities being the most expensive places to build this year, according to Dutch consulting engineer Arcadis. It was a striking change from last year, when only one North American city made the top 10. Singapore, meanwhile, led the way on offsite manufacturing, keeping costs comparatively low.

**June** – Foster + Partners considers leaving UK over Brexit: Even before the hooded spectre of Brexit appeared on its doorstep, the UK’s construction industry was facing a chronic shortage of skills across many of its trades and professions. And nowhere more so than in London offices of architects with a global client base, as Foster + Partners made clear in June when it revealed that fewer than one in four of its staff were UK nationals.

**July** – Giant hands hold up golden bridge in Vietnam: The most popular article of July was based on a picture of a 150m-long bridge nestled in the hill of Da Nang, held up by a pair of giant blue hands. Tourism to Vietnam has been growing at the astonishing annual rate of 30%, and the government is investing in things that both help visitors get around and give them something to inspect. “Golden Bridge” in the Ba Na Hills is part of a \$2bn programme of works to help them do both in the Annamese Mountains.

**August** – South Korea closes \$266m high-speed rail line as passengers prefer the bus: A surprise from Korea in August: the state rail company announced that a state-of-the-art high-speed service between Incheon International Airport and Seoul would cease operation a mere four years after a \$266m construction project was completed. The purpose was to give international visitors faster access to Pyeongchang, the city that hosted the 23<sup>rd</sup> Winter Olympics in February, but once the games were over, Korea Railroad found the line was unable to compete with highly efficient coach operators. As a result, the 300km/h line became a “money drinking hippo”, as the Koreans call their white elephants.

**September** – Ethiopia announces four more industrial parks as debt fears grow: The year 2018 was a tumultuous one for Ethiopia as its brand-new railway between Addis Ababa and Djibouti began to connect this highly populated and landlocked country with the outside world, and the installation of a reformist government cleared the way to ending the Eritrean war. The country is basing its industrial policy on the development of large-scale manufacturing centres, and this policy took a step forward in September with the announcement that work on four more parks would begin before the end of the year. Ultimately, the aim is to build 30 of them, increasing manufacturing output from about 5% to 20% of GDP – if the returns on investment can keep pace with the rise in the country’s national debt.

**October** – Croatia’s \$155m Drava bridge is 99.7% complete – and has been for past two years: Our top story in October was a quirky one: the contractors building the \$155m Osijek cable-stayed bridge, the longest in Croatia, were refusing to complete the last \$500,000 of work until they were paid the extra \$30m that they said they were owed for variations. The result was a two-year-long standoff in which 2,485m-long structure was almost, but not quite, ready to use.

**November** – Aecom to cease operations in 30 countries to improve profitability: One of the world’s fastest growing construction groups appeared to reach its high-water mark in November, when Californian engineer Aecom announced that it was consolidating to improve profitability. Michael Burke, the company’s high-profile chairman and chief executive, described the decision to pull out of 30 national markets as “strategic actions from a position of strength that we expect will substantially improve our profitability and position us to fully capitalize on our record \$54bn backlog”.

**December** – Ethiopia’s huge Nile dam delayed to 2022: Some bad news from Ethiopia Grand Renaissance Dam project, arguably the most remarkable, ambitious and controversial civil engineering project presently under way anywhere. Possible defects in electro-mechanical work carried out by a state-owned company may add four more years to the construction schedule.

GCR Staff (2018) ‘A rocky road: A look back at 2018’s most-read stories’ [online], *Global Construction Review*, CIOB, 21 December. Available at: [www.globalconstructionreview.com/news/rocky-road-look-back-2018s-most-read-stories/#read](http://www.globalconstructionreview.com/news/rocky-road-look-back-2018s-most-read-stories/#read) [accessed 25 January 2019] [Back to top](#)



## Property and Construction Statistics

### **RICS Economy and Property Market Chart Book – Q4 2018**

- Brexit uncertainty features heavily in survey data

“Austerity is coming to an end” was the Chancellor’s closing remark in October’s Budget. On the one hand this might be considered true given the OBR’s claim that the Autumn 2018 Budget represented the largest fiscal loosening since 2010. On the other hand, a combination of Brexit uncertainty, soft productivity growth and a potential moderation in global activity means that the outlook for the economy and the Chancellor’s scope for largess in the coming years is far from clear.

There is little doubt that a consistent improvement in public finances in the run up to the Budget, partly reflected in the £11.9 billion reduction in borrowing projections for this fiscal year (than expected in March), allowed the Chancellor to increase public spending. But despite this considerable fiscal loosening, the OBR projects only a modest improvement in GDP. Economic growth is expected to come in at 1.3% in 2018 (relative to 1.7% in 2017) and remain close to 1.5% per year until 2023.

On a brighter note, as far as households are concerned, inflation has slowed from its five-and-a-half-year peak of 3.1% at the end of 2017 to 2.4% in September 2018. Forecasts (from the likes of the OBR, IMF, Oxford Economics and The Bank of England) all expect inflation to drop further in 2019, with most appearing to be reasonably confident that consumer price inflation will reach the Bank’s 2% target by 2020.

Brexit uncertainty has featured heavily in the latest round of RICS surveys. Contributors to the RICS Residential Market Survey have cited this as one of the main reasons behind subdued activity alongside affordability constraints and lack of available stock.

Turning to the construction sector, the RICS workloads indicator in Q3 2018 Construction and infrastructure Market Survey continued to signal a pick-up in output consistent with the firmer trend in the official data. That said, behind the headline figures, financial constraints and skill shortages were once again cited as one of the main impediments to activity with many contributors expressing concerns over what Brexit will mean for the hiring of skilled workers across the industry. Partly because of this, expectations for profit margins have flatlined despite workloads still being projected to rise.

Source: RICS (2018), Knowledge, RICS Market Surveys – *RICS UK Chart Book and Survey Market Updates, Q4 2018*, RICS, London [online]. Available at: [www.rics.org/uk/news-insight/research/market-surveys/uk-chart-book/](http://www.rics.org/uk/news-insight/research/market-surveys/uk-chart-book/) [accessed 25 January 2019].

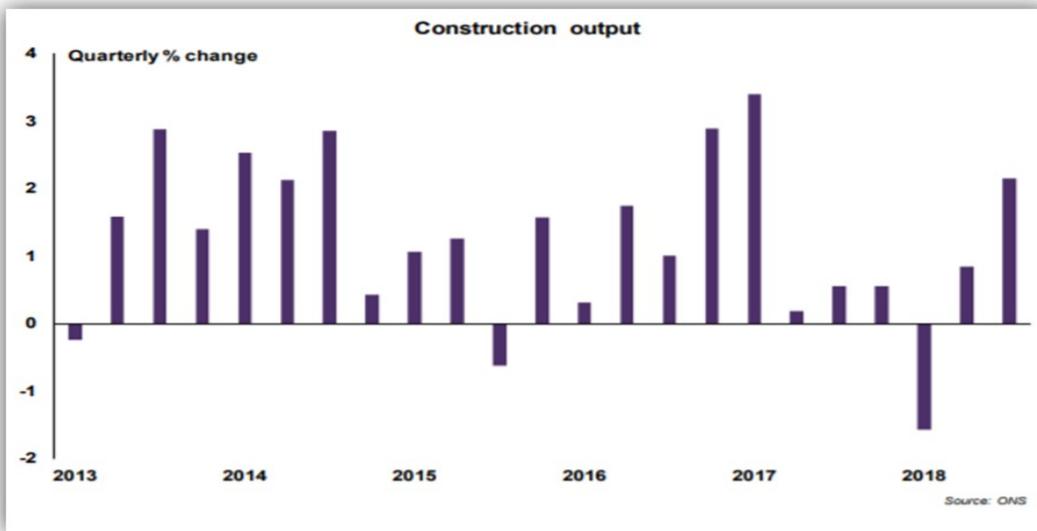
### **Chart 19 – Construction sector**

Following a weak opening to 2018, it looks as if activity in the construction industry has recovered over recent months, with the ONS reporting output rose by 2.1% in Q3 following growth of 0.8% in Q2.

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### Chart 19 – Construction sector

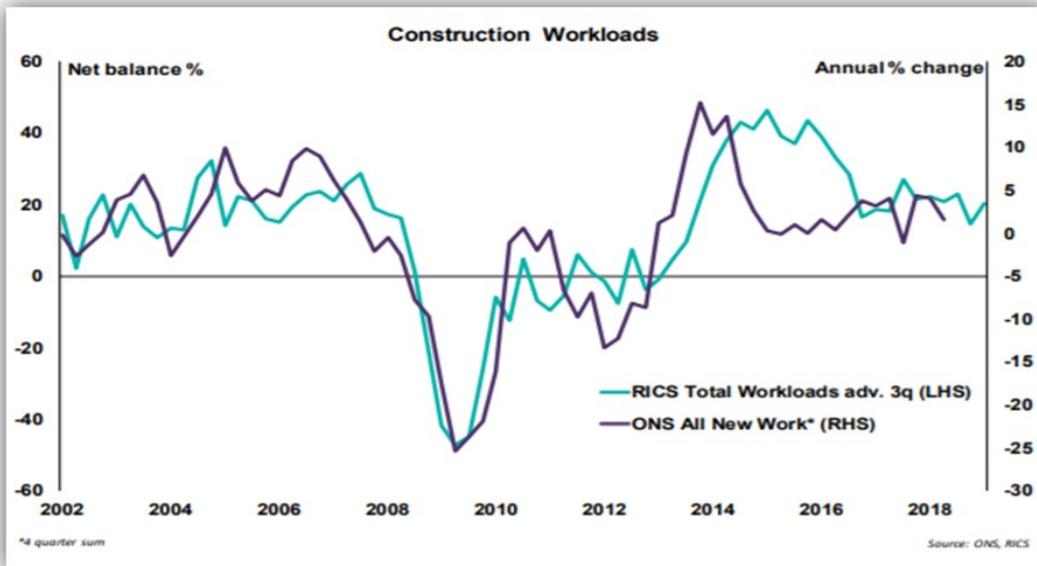
Following a weak opening to 2018, it looks as if activity in the construction industry has recovered over recent months, with the ONS reporting output rose by 2.1% in Q3 following growth of 0.8% in Q2.



Source: RICS Economics Research: *RICS UK Economy and Property Market Chart Book* (Q4, 2018), page 11

### Chart 21 – Construction sector

The RICS headline workloads series is now pointing to a slight pick-up in the pace of construction output beyond Q3, with the net balances rising to +20% in Q3 from +15% in Q2 (this series has a three-quarter lead to official new work measure).



Source: RICS Economics Research: *RICS UK Economy and Property Market Chart Book* (Q4, 2018), page 11

**Please note:** RICS > News & Insight > Research > Market Surveys - RICS Economics' market surveys and reports are freely available from the RICS web site – [www.rics.org/uk/news-insight/research/market-surveys/](http://www.rics.org/uk/news-insight/research/market-surveys/) [accessed 25 January 2019]

These include:

- **UK Residential Market Survey. Note: The latest survey, dated December 2018 (see below)**
- Global Commercial Property Monitors – leading indicators of conditions in commercial property occupier and investor markets around the world.
- **Analysis and discussion papers** – In-depth insights on specific markets, sectors and developments.
- Cyprus Property Price Indices – A quarterly price and rental index that tracks property and rental prices across all districts
- Hong Kong Residential Market Survey – a leading sentiment indicator of conditions in the Hong Kong residential sales and lettings markets.
- RICS/Ci Portuguese Housing Market Survey – a leading sentiment indicator of developments in the Portuguese residential sales and lettings markets.
- RICS/RAU Rural Land Market Survey and Land Prices – the leading survey on demand, supply and prices in the farmland market. The RICS/RAU Farmland Market Directory of Land Prices was launched by RICS's Rural Professional Group after the Farmland Market ceased publication.
- **UK Chart Book and Survey Market Updates** – A monthly snapshot of the UK economy, focusing on the construction, housing and commercial property sectors. **Note: For the latest (Q4 2018), please see above.**
- **UK Commercial Market Survey – a leading indicator of developments in the UK commercial property occupier and investor markets.**
- UK Construction and Infrastructure Survey – the leading sentiment indicator of the UK construction and infrastructure markets.

RICS (2019), Research, Market Surveys [online], London: RICS. Available at: [www.rics.org/uk/news-insight/research/market-surveys/](http://www.rics.org/uk/news-insight/research/market-surveys/) [accessed 25 January 2019]

**N.B.** The RICS published reports, entitled i.e. 'UK Commercial Property Market Survey', can be accessed through **ISURV** [online], available via the **VLE e-Library** and **section 5 – Industry Sources**.

Alternatively, please request a copy from the UCEM Library by emailing [library@ucem.ac.uk](mailto:library@ucem.ac.uk).

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## **Latest RICS Research/Market Surveys available - [UK Residential Market Survey \(2018\)](#)**

*UK Residential Market Survey* - A leading sentiment indicator of conditions in the UK residential sales and lettings markets, used by the Bank of England and covered across the media.

The UK Residential Market Survey is used by the Government, the Bank of England and other key institutions, including the International Monetary Fund (IMF), as an indicator of current and future conditions in UK residential sales and letting. It is covered extensively in the media and is the leading source of market intelligence, highly regarded both by investors and across the industry.

### **December 2018: UK Residential Market Survey**

#### **Near term sentiment continues to deteriorate**

- Enquiries, agreed sales, and new instructions all soften again over the month
- Sales expectations point to a further decline in near term activity
- Headline price net balance slips slightly deeper into negative territory

By visiting the website of the Royal Institution of Chartered Surveyors [online], you can access, read-online and download surveys from the last two years.

For further information, visit the **RICS** website, and select **News & Insight > Research > Market Surveys**, and **UK Residential Market Survey** from the RICS website.

*UK Residential Market Survey, December 2018* [online] and available @ [www.rics.org/uk/news-insight/research/market-surveys/uk-residential-market-survey/](http://www.rics.org/uk/news-insight/research/market-surveys/uk-residential-market-survey/) [accessed 25 January 2019]

**RICS.org.uk** [www.rics.org/uk/](http://www.rics.org/uk/) [accessed 25 January 2019]



<https://twitter.com/RICSNews> [accessed 25 January 2019]



<https://www.facebook.com/ricssurveyors> [accessed 25 January 2019]



<https://www.linkedin.com/groups?gid=88902> [accessed 25 January 2019]

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## **Barbour API's *Economic & Construction Market Review***

- The *Economic and Construction Market Review* provides valuable insight and market intelligence to help forecast new business opportunities and driver marketing activity.

This monthly round up of construction market intelligence combines data on the UK construction industry trends and analysis with data on the economic climate from previous months. Barbour's Lead Economist Michael Dall compiles the monthly *Economics & Construction Review*, so you can rely on the most valuable, and up-to-date information each month.

*Economic and Construction Market Review* includes:

- UK Economic Trends – The latest GDP, unemployment and economic growth figures
- Construction Sector Performance – The latest construction industry figures including information from the Office for National Statistics, the best performing sectors and the levels of construction contracts from across the UK.

Further information and access to the review is available via

Barbour Index API, *Economic and Construction Market Review* [online]. Available at: [www.barbour-abi.com/economic-and-construction-market-review/](http://www.barbour-abi.com/economic-and-construction-market-review/) [accessed 25 January 2019]

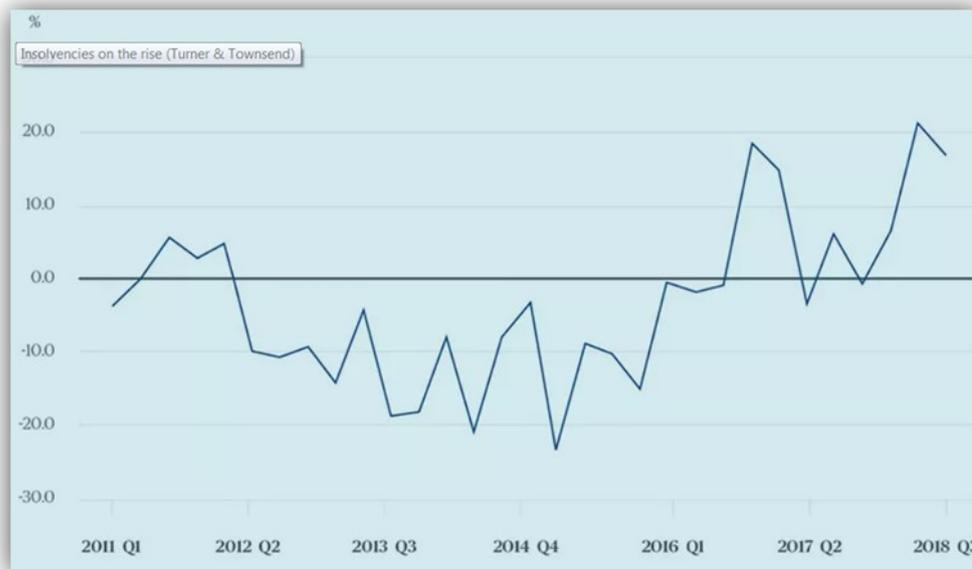
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## **'Prepare for distress': Turner & Townsend warns of UK construction insolvencies, *Global Construction Review***

- UK consultant Turner & Townsend is warning that the UK industry should beware insolvencies as demand weakens and margins are squeezed.

Its latest market analysis points to falling demand, rising input costs and lower margins, and notes that the number of construction insolvencies far outstrips those in retail.

With confusion persisting over the Brexit withdrawal agreement, client organisations should prepare for "supply chain distress" and take steps to pre-empt, manage and neutralize this risk, the consultant said. Contractors expect tender prices to increase 2.9% in 2019, outstripped by increasing materials costs of 5.3% and labour costs rising 4.5%. Only 28.4% of contractors expect the market to improve, against 42.1% prior to the Brexit vote in June 2016.



Source: GCR Staff (2019) 'Prepare for distress': Turner & Townsend warns of UK construction insolvencies', *Global Construction Review* [online], 17 January. Available at: [www.globalconstructionreview.com/news/prepare-distress-turner-townsend-warns-uk-construc/](http://www.globalconstructionreview.com/news/prepare-distress-turner-townsend-warns-uk-construc/) [accessed 25 January 2019]

Official data show that construction witnessed the highest insolvency rate of any UK economic sector, with 2,924 insolvencies recorded in the 12 months to the end of September 2018. This figure is 28.85 higher than the UK's struggling retail sector.

The underlying cause is weakening demand in construction, Turner & Townsend says. Despite a small 3.4% rise on the previous quarter, new orders in Q3 2018 were down almost a third (30.8%) on the high levels seen in 2017.

As a result, Turner & Townsend's latest UK market intelligence report finds that half of contractors (50.5%) surveyed were experiencing lukewarm tendering conditions, reporting increased competition and moderate price growth. The trends are hurting profit margins.

The analysis shows median margins for tier one contractors standing at 3% and 5% for tier two contractors. Since the start of 2016, median tier one margins have shrunk by a quarter and tier two margins by half, leading Turner & Townsend to warn of a heightened risk of insolvency.

Paul Connolly, UK managing director of cost management said contractors and clients "need to have their eyes on the pressure points that could push parts of the supply chain to the edge".

"So much rests on the Brexit withdrawal agreement and there remains risks of further decreases in demand, coupled with increases in the costs of materials and labour from the continent and elsewhere. Contractors' already-thin margins could clearly come under further pressure.

"It's essential for clients to be proactive about these risks – monitoring for warning signs, undertaking wide-ranging due diligence during procurement, and using project controls to pre-empt and correct problems at an early stage. It's about checking and challenging the supply chain, but also collaborating – understand suppliers' pressures and concerns, as well as holding them to account."

**Turner & Townsend's report** outlines the steps clients should take in terms of watching for warning signs, due diligence, pre-emption, and creating a resilient client-supplier dynamic.

GCR Staff (2019) 'Prepare for distress': Turner & Townsend warns of UK construction insolvencies', *Global Construction Review* [online], 17 January. Available at: [www.globalconstructionreview.com/news/prepare-distress-turner-townsend-warns-uk-construc/](http://www.globalconstructionreview.com/news/prepare-distress-turner-townsend-warns-uk-construc/) [accessed 25 January 2019]

#### Related Link:

**Turner & Townsend (2019) UK market intelligence Q4 2018: Contractors report order book increases but Brexit uncertainty prevails** [online]. Available at: [www.turnerandtownsend.com/en/insights/uk-market-intelligence-q4-2018](http://www.turnerandtownsend.com/en/insights/uk-market-intelligence-q4-2018) [accessed 25 January 2019]

- The construction industry is a bellwether for the wider economy, and its strong performance in the third quarter of 2018 set the tone for UK plc as a whole.

Key facts incl.

- Latest UK market analysis points to falling demand, rising input costs and lower margins as construction insolvencies rise
- Contractors expect tender prices to increase 2.9 percent in 2019, outstripped by increasing materials costs of 5.3 percent and labour costs rising 4.5 percent
- Only 28.4 percent of contractors expect the market to improve, against 24.1 percent prior to the Brexit vote in Q1 2016.

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## **Latest Statistics from the Office for National Statistics (ONS)**

### **Office for National Statistics (ONS), *Release calendar* [online]**

Office for National Statistics (ONS), *Release calendar* [online] and available @ [www.ons.gov.uk/releasecalendar](http://www.ons.gov.uk/releasecalendar) [accessed 25 January 2019]

The above-mentioned link provides access to the Office for National Statistics (ONS) releases only. For official statistical releases across government [visit the Publication Hub](#) -

**GOV.UK, *Statistics: release calendar*** [online] and available @ [www.gov.uk/government/statistics/announcements](http://www.gov.uk/government/statistics/announcements) [accessed 25 January 2019].

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## **Office for National Statistics (ONS) - Construction Industry update**

- Construction of new buildings and repairs or alterations to existing properties in Great Britain measured by the amount charged for the work, including work by civil engineering companies.

Office for National Statistics (2017), Business, industry and trade, Construction industry [online] and available at: [www.ons.gov.uk/businessindustryandtrade/constructionindustry](http://www.ons.gov.uk/businessindustryandtrade/constructionindustry) [accessed 25 January 2019]

From the above-mentioned webpage, you can access

**Datasets, Publications/articles** and **Methodology**, as well as **'All data'** and **'All publications'**

**Please note:** By visiting the ONS website homepage [online]. Available at: [www.ons.gov.uk/](http://www.ons.gov.uk/) [accessed 25 January 2019]

- From the above-mentioned web-link, you have access to an **'A to Z of statistical bulletins'** where you can select **'C'** and refine to **'Construction'** for the latest items.

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## **Construction industry highlights include:**

### **Construction output in Great Britain: November 2018**

Contents incl.

(i) Main points; (ii) Things you need to know about this release; (iii) Construction output in November 2018; (iv) Contributions to growth; (v) Detailed growth rates; (vi) Revisions; (vii) Links to related statistics; (viii) Other useful links; (ix) Quality and methodology; and (x) Construction statistics engagement and development

#### **What's in the bulletin?**

- Construction output recorded an all-time level high in November 2018 in the chained volume measure seasonally adjusted series; the month-on series grew by 0.6%, resulting in the total value of construction output exceeding £14 billion for the first time since monthly records began in 2010.
- This was driven primarily by strong growth in private new housing, private commercial new work, and public housing repair and maintenance, which increased by 3.1%, 2.3% and 5.8% respectively.
- The main factors acting to depress growth were a steep decline in public other new work, down 5.8%, as well as a drop-in infrastructure.

Office for National Statistics (2019), Construction Industry, *Construction output in Great Britain: November 2018* [online]. Available at: [www.ons.gov.uk/businessindustryandtrade/constructionindustry](http://www.ons.gov.uk/businessindustryandtrade/constructionindustry) [accessed 25 January 2019] and [www.ons.gov.uk/businessindustryandtrade/constructionindustry/bulletins/constructionoutputingreatbritain/november2018](http://www.ons.gov.uk/businessindustryandtrade/constructionindustry/bulletins/constructionoutputingreatbritain/november2018) [accessed 25 January 2019]

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## Datasets related to Construction industry incl.

- **Output in the Construction Industry** – Monthly output at current price and chained volume measures seasonally adjusted by public and private sector. Quarterly non-seasonally adjusted type of work and regional data.
- **Output in the Construction Industry, All Work Summary** – Monthly output all work summary at current price and chained volume measure seasonally adjusted by public and private sector
- **New Orders in the Construction Industry** – Quarterly new orders at current price and chained volume measures seasonally adjusted by public and private sector. Quarterly non-seasonally adjusted type of work and regional data.
- **Construction output price indices** – Monthly construction output price indices (OPIs) from January 2014 to June 2018, and
- **Construction Statistics Annual Tables** – These tables cover a wide range of statistics that are currently available on the construction industry.

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## Output in the Construction Industry incl.

### **Short-term economic indicators commentary: June 2018, and Construction Statistics Development Programme – [Work plan](#)**

- A summary of the short-term indicators published in early June 2018.

Office for National Statistics (ONS), 11<sup>th</sup> April 2018, Article: *Short-term economic indicators commentary: June 2018* [online]. Available at:

<https://www.ons.gov.uk/economy/economicoutputandproductivity/output/articles/shorttermindicatorseconomiccommentary/june2018> [accessed 25 January 2019].

#### **Related Link:**

- The [Construction Statistics Development Work Plan](#) (104.4 Kb Pdf) provides users with information on the work that will be completed over the next 12 months, including investigations into both the nominal data and options for measuring construction price statistics.

Office for National Statistics (ONS), 11<sup>th</sup> December 2015, Release: *Output in the Construction Industry, Construction Statistics Development Programme – Work Plan* [online]. Available at:

[www.ons.gov.uk/ons/rel/construction/output-in-the-construction-industry/construction-statistics-development-programme---work-plan/index.html](http://www.ons.gov.uk/ons/rel/construction/output-in-the-construction-industry/construction-statistics-development-programme---work-plan/index.html) [accessed 25 January 2019]. **N.B.** This item has been placed with **The National Archives** as the ONS website has now been updated.

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## **Construction Statistics, No. 19, 2018 Edition ([Latest release](#))**

- A wide range of statistics on the construction industry in Great Britain: statistical trends, international comparisons and leading initiatives that may influence the future.

Table of contents in this edition incl.

**(1) Main points**, (2) Things you need to know about this release, (3) Construction Output, (4) Construction New orders, (5) Structure of the industry, (6) Employment and earnings,

(7) Output price indices (OPIs), (8) Comparisons and contributions to the economy, (9) Housing and planning applications, (10) Building materials, (11) International comparisons, (12) External data sources and previously unpublished tables, (13) Quality and methodology, and (14) Construction statistics engagement and development

Within the section on **Main points** it stipulates

- The value of construction new work in current prices continued to rise in 2017 in Great Britain, reaching its highest level on record at £109,387 million; driven by growth in the private sector, which equates to approximately three-quarters of new work.
- The rise in the value of construction new orders seen since 2011 has continued, in part due to the awarding of several high-value orders relating to High Speed 2 (HS2), which drove the 7.4% increase in new orders in 2017.
- The number of firms operating in the construction industry has continued to rise, increasing by 6.2% compared with the previous year, with 314,590 firms operating in Great Britain in 2017.
- As the number of construction firms has risen, so has the number of insolvencies; the number of new company construction insolvencies grew 3.4% compared with 2016, equating to 2,792 insolvent construction firms.
- Construction-related employment in Great Britain increased by 3.8% in 2017, exceeding its pre-downturn peak of 2007 to reach the highest level on record, with jobs centred around London, the South East and the North West of England
- Average weekly earnings in the construction industry recovered from a fall in 2016, increasing to £607 per week in December 2017, second only to the finance and business services sector.
- The UK trade deficit in construction materials and components continued to widen in 2017, increasing to £9,909 million, with the value of imports more than double the value of exports.

Further information is available at:

Office for National Statistics (ONS), 22 August 2018, *Construction Statistics, No. 19, 2018* [online]. Available at: [www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/number192018/edition](http://www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/number192018/edition) [accessed 25 January 2019]

#### **Related article/Links:**

Office for National Statistics (ONS), 2 October 2017, *Construction Statistics, No. 18, 2017* [online]. Available at: [www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/number182017/edition](http://www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/number182017/edition) [accessed 25 January 2019]

**Office for National Statistics (ONS), Construction Statistics Articles** [online]. Available at: [www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/previousReleases](http://www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/previousReleases) [accessed 25 January 2019]

**Note:** As of 2016, the Office for National Statistics website was upgraded and by selecting ‘**Construction**’, ‘**Construction Industry**’, ‘**Construction Statistics**’ a wealth of information is available. ONS website @ [www.ons.gov.uk](http://www.ons.gov.uk) [accessed 25 January 2019].

**Office for National Statistics (ONS) website** [online]. Further information is available at: [www.ons.gov.uk/ons/index.html](http://www.ons.gov.uk/ons/index.html) [accessed 25 January 2019]



<https://twitter.com/ONS> [accessed 25 January 2019],



<https://www.facebook.com/ONS> [accessed 25 January 2019],



<https://www.linkedin.com/company/office-for-national-statistics> [accessed 25 January 2019],

ONS, **Browse by Theme** [online] and available @ <http://www.ons.gov.uk/ons/browse-by-theme/index.html> [accessed 25 January 2019]. Please refer to

'Business and Energy'   
'Production Industries'  and  
'Building and Construction' 

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## Glenigan, provider of UK construction project sales leads, market analysis, forecasting, and company intelligence

### Construction Market Analysis

- Grow your business and reduce risk by using in-depth construction market analysis and robust data-driven forecasts. You can examine performance and prospects nationally; by each of the 12 Government economic regions; and 11 market segments. You can explore the market at the right state of your business whether that is during planning; at the tendering and contract phase; or when projects have started on site. This information and more can be accessed, read-online and downloaded via the

Glenigan website [online] and available at: [www.glenigan.com/construction-market-analysis/news/2015-construction-kpis](http://www.glenigan.com/construction-market-analysis/news/2015-construction-kpis) [accessed 25 January 2019]

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## Health and Safety Executive (HSE) – Construction Statistics

The mission of the Health and Safety Executive (HSE) is to prevent death, injury and ill health in Great Britain's workplaces. Areas covered within the HSE Website incl.

- Openness
- Standards and performance
- Framework management standards
- Health and safety inspection visits
- Real people vide

The HSE's work covers a varied range of activities; from shaping and reviewing regulations, **producing research and statistics** and enforcing law.

For further information on **HSE's Construction Statistics** visit the following:

Source: Health and Safety Executive (HSE) website and select

'Statistics'   
'Industries'  and  
'Construction' ,

that will take you to 'Construction Industry'.

HSE [online] and further information available at: [www.hse.gov.uk/construction/index.htm](http://www.hse.gov.uk/construction/index.htm) [accessed 25 January 2019]

HSE, *About us* [online] and further information is available at: [www.hse.gov.uk/aboutus/insidehse.htm](http://www.hse.gov.uk/aboutus/insidehse.htm) [accessed 25 January 2019]

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## GOV.UK – Construction Statistics

GOV.UK, Office for National Statistics (2017) National Statistics: *Impact of improvements to Construction Statistics* [online]. Available at: [www.gov.uk/government/statistics/impact-of-improvements-to-construction-statistics](http://www.gov.uk/government/statistics/impact-of-improvements-to-construction-statistics) [accessed 25 January 2019]

GOV.UK, Department for Business, Innovation and Skills (BIS), 30<sup>th</sup> January 2013, Collection: *Construction statistics* [online] and further information incl.

- Monthly Statistics of Building Materials and Components;
- BIS Construction Price and Cost Indices Online;
- Construction Key Performance Indicators;
- Output and New Orders in the Construction Industry; and
- Consultative Committee on Construction Industry Statistics (CCIS)) are available at

GOV.UK, Department for Business, Innovation and Skills (BIS), *Construction Statistics* [online] with further information and web links provided @ [www.gov.uk/government/collections/construction-statistics](http://www.gov.uk/government/collections/construction-statistics) [accessed 25 January 2019]

&

House of Commons Library, Briefing Papers incl. [The Construction Industry: statistics and policy](#)

- **Key statistics on the construction industry – employment, new orders, output. Also, construction sector policy initiatives.**

In 2014 the construction industry in the UK contributed £103 billion in economic output, 6.5% of the total.

2.1 million jobs or 6.25% of the UK totals were in the construction industry in Q 2015.

The construction industry, particularly house building, fared badly during the recession. Output in the construction sector fell faster than the whole economy in 2008. 2009 saw the sector recover faster than the economy, and 2010 and 2011 saw broadly flat growth, followed by another contraction in 2012 and partial recovery through 2013.

The Coalition Government's strategy paper on the construction industry is *construction 2025*, published in July 2013.

The construction industry was also highlighted in the March 2011 *Plan for Growth*.

Rhodes C (2015), *Construction industry: statistics and policy*, House of Commons Library, Briefing Paper Number 01432, 6 October 2015 [online] and available at:

<http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN01432> [accessed 25 January 2019]

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## e-Journal Review

### RICS **Modus** Digital Magazine – January 2019: [The Future Shocks Issue](#)

- Another new year, another post-Christmas post-mortem on the declining fortunes of the bricks-and-mortar retailer.

Predictably, online operators like Amazon are in the firing line as a major cause, but could real-world retailers stage a fightback using technology to turn the customer experience into something much richer rewarding?

In this issue of *Modus*, some of the technological trends emerging in this area are examined, and how they could change the game for retailers and property owners alike.

Meanwhile, we're also looking at how the rise of online retail, automation and next-day delivery is fuelling new appetites in the logistics sector, with occupiers and developers racing to get as close as possible to consumers' front doors and office desks. In the offices sector, we're asking just how much of a difference a working environment can make to people's physical and mental health.

Finally, *Modus* also meets the winner of the **RICS Cities for our Future competition**, Earl Patrick Forlales, whose modular housing system Cubo could help improve the lives of millions of people living in informal settlements today.

This digital magazine can be accessed by following the above-mentioned web link.

Modus contains regulations sections on **Intelligence / Experience / Features**

### Intelligence

- **Deconstructed** - Rewilding upland areas: controversial but critical?
- **Opinion** – Andrew Mawson makes the case for smarter workplaces
- **Chartered territory** - Are smart cities the future or just the latest passing trend?
- **Rethinking** - What should the built environment be doing to solve homelessness?

### This issues main features include:

- **Post modern** - The distribution sector used to be simple. Then came smartphone commerce, same-day delivery and robot drones – and they are changing the game completely
- **Shopping 2.0** - Technology has dealt physical retail some heavy internet-shaped blows over the past decade. Here's how real-world retailers are fighting fire with fire.
- **The pursuit of happiness** - We've all heard of "sick building syndrome", but has the time come for us to focus on the benefits that could be derived from "healthy building syndrome", too?
- **Boxing clever** - RICS' Cities for our Future challenge winner Earl Patrick Forlales has a plan to radically improve housing for millions living in informal settlements today. Here's how ...
- **The new tools of the trade** - Don't work harder, work smarter. There's now a productivity tool for almost every sector of the profession. Could any of our featured 10 make a difference to your job?

### Experience

- **How to ...** Be an irresistible hire, as told by the recruiters looking out for them
- **What if?** We need to get more freight off our roads – can the train take the strain?

Royal Institution of Chartered Surveyors (RICS), Oliver Parsons, Editor of *Modus*, *Modus*, January 2019 – *Modus*: The Future Shocks Issue [online], RICS, Knowledge, Journals. Available at:

[www.rics.org/uk/news-insight/publications/modus/the-future-shocks-issue/](http://www.rics.org/uk/news-insight/publications/modus/the-future-shocks-issue/) [accessed 25 January 2019]

### Please also view

**RICS Modus – The Great Unknown Issue**, and refer to the following article

Parson O (2018) 'Here come the trailblazers', *Modus* [online], November / December, pp28-32. Available at: [www.rics.org/uk/news-insight/publications/modus/the-great-unknown-issue/](http://www.rics.org/uk/news-insight/publications/modus/the-great-unknown-issue/) [accessed 16 January 2019]

**N.B.** One of our UCEM Apprentices, namely Adelle Rhule-Martin is interviewed about her apprenticeship journey. Article starts on page 28, picture of Adelle on p29 and quotes from her on p30.

**RICS Modus – The Anniversary Issue** - RICS celebrated its 150<sup>th</sup> anniversary in June 2018 and took the opportunity both look back at the rich history of our profession, and to look forward to the future of the built environment, with a special edition of *Modus* Magazine.

- **10 years that changed surveying** - In the 150 years since RICS was founded the world has changed at an inexorable pace. What are the key events that have shaped the Institution's history, and that of the role of the surveyor?

**Please note:** College of Estate Management is mentioned within their history- please refer to page 17 onwards

Royal Institution of Chartered Surveyors (RICS), Oliver Parsons, Editor of Modus, *Modus*, June 2018 – Modus: **The Anniversary Issue** [online], RICS, Knowledge, Journals. Available at:

[www.rics.org/uk/news-insight/publications/modus/the-anniversary-issue/](http://www.rics.org/uk/news-insight/publications/modus/the-anniversary-issue/) [accessed 25 January 2019]

**Please note:** In addition to *MODUS*, RICS publishes other journals that are **free** to view online incl.

- *Construction Journal*,
- *Building Surveying Journal*,
- *Building Conservation Journal*,
- *Building Control Journal*,
- *Land Journal*, and
- *Property Journal*.

Source: Royal Institution of Chartered Surveyors (RICS). Further information can be accessed via the RICS Website, News, Journals [online] and available at: [www.rics.org/uk/news-insight/publications/](http://www.rics.org/uk/news-insight/publications/) [accessed 25 January 2019]

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**Latest issue of *Contractors World International* (Vol. 9, No 1) incl.**

**Contents incl.**

- **United Kingdom: World famous landmark undergoes renovation**
- Finland: Dust suppression at challenging demolition site
- USA: Modified articulated trucks and scrapers
- Norway: Major milestone for large suspension bridge
- USA: No 1 choice at bridge elevation
- United Kingdom: Innovations from leading contractor
- United Kingdom: \$2bn city upgrade makes progress
- Australia: Virtual Reality Training
- Germany: Building Façades That Think
- Nigeria: Residential complex on the shoreline
- India: High-rise concrete pumping challenge

**&**

**Potholes – Fighting a losing battle**

- New spray injection patching service
- Bituchem repair innovations
- Speed and efficiency see velocity win
- Permanent cold asphalt pothole repair
- Recycled plastic for road repairs

**UK: World famous landmark undergoes extensive renovation**

The iconic Elizabeth Tower which houses the famous clock and Big Ben – the bell that chimes the times is undergoing extensive refurbishment.

Part of the Palace of Westminster (Houses of Parliament), it is the first stage of a multi-billion-dollar total refurbishment which will require members of Parliament vacating the building for several years.

Unfortunately for tourists, the most photographed landmark in the world is hidden from view behind a curtain of scaffolding to the full height. Only one face of the clock has been left visible and, for the safety of workers, the bell has been silenced during the renovation period.

As the Tower is 96 metres tall, scaffolding is needed to enable workers to reach high levels safely. Scaffolding will be dismantled as the work is completed from the top, and at least one clock face will always be on show.

As a Grade 1 listed building within a UNESCO World Heritage site, the 160-year-old Tower is subject to listed building consent. This programme of works has been carefully planned in consultation with Historic England.

The works involve:

- Repair problems identified with the Elizabeth Tower and the Great Clock, which cannot be rectified whilst the clock is in action.
- Conserve significant elements of the Tower, as designed by architects Charles Barry and Augustus Wellby Pugin.
- Repair and redecorate the interior, renew the building services and carry out work to improve health and safety and fire prevention.
- Increase energy efficiency to reduce the Tower's environmental impact.

For further information, visit

Contractors World International (2019), 'UK: World famous landmark undergoes extensive renovation', *Contractors World International* Volume 9, No 1, Page 30 [online], USL StructureCare. Further information available at: <http://cwmags.com/> [accessed 25 January 2019]

**Contractors World** magazines (incl. **Contractors World International** and **Contractors World UK & Ireland** are the leading international digital publications. Delivering site reports, equipment reviews and comments of interest on the construction, mining, quarrying and related industries [online]. Available at: <http://cwmags.com/> [accessed 25 January 2019]. **Please note** that *Contractors World UK & Ireland* is no longer being published. However, the content continues to be published in the international edition (as shown above).

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## IWFM Digital Magazine – **FM World** January 2019: the latest issue

**fm-world.co.uk** is the online magazine of the **Institute of Workplace and Facilities Management (IWFM)**, formerly the British Institute of Facilities Management (BIFM) and is available to access and view online.

In this latest issue,

### **FM Industry News:**

- Dirty office kitchens cause workplace rifts and disruption
- 'Only one in five firms' is taking action on gender pay gap
- Government further reduces size of its estate in 2017-18
- BSRIA launches building service analytics guidance
- Caring duties and ill health bar older people from full-time work

### **Business News:**

- Sodexo wins contract with Scottish Fire & Rescue Service
- Jet Aire Services appoints compliance manager
- Interserve announces divisions merger
- Sodexo strikes parks maintenance deal with Surrey
- Vacherin kick-starts financial year with two contract wins

### **News analysis:**

- Disjointed NHS estates call for Remedial work
- Studies push need for more awareness of smart buildings

- Built environment sector ‘Must lead charge against climate change’
- Tougher controls needed on asbestos
- Further progress in evolving EV charging market.

#### **Business analysis:**

- Guardian culture
- First-choice FM
- On a short lease
- Sector delivery
- Washrooms for women

Source: Institute of Workplace and Facilities Management (IWFM), formerly BIFM (2018), *FM World*, News, 21<sup>st</sup> December 2018, 3<sup>rd</sup> January 2019, [fm-world.co.uk](http://fm-world.co.uk) [online]. Further information available at: [www.fm-world.co.uk/](http://www.fm-world.co.uk/) [accessed 25 January 2019] and [www.fm-world.co.uk/news/](http://www.fm-world.co.uk/news/) [accessed 25 January 2019], London: Redactive Publishing Ltd.

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## **The Heritage Alliance’s latest ‘Heritage Update’ E-Bulletin – 17 January 2019**

Heritage Update is the Heritage Alliance’s voice to, and for, the sector. The popular fortnightly e-bulletin offers policy updates, news, a consultation round-up, events / course listings and job vacancies.

The latest issue (17 January 2019) that can be accessed and downloaded (for personal use as reference) from the above-mentioned web link and contains further information on the following:

### **Heritage Update E-Bulletin**

#### **Headlines:**

- Apply for a Heritage Alliance grant by 15 February 2019!
- **Serious concerns over ‘building up’ and permitted development demolition proposals (1)**
- Heritage bespoke legal advice and training day with BWB LLP
- Joint Nautical Archaeology Policy Committee joins the Heritage Alliance
- Tourism Alliance joins the Heritage Alliance
- **Collaborative working in the historic environment sector (2)**
- Help us to improve our Website!

#### **News round-up:**

- Immigration White Paper published – your information needed
- **£675 million fund to transform high streets and town centre opens (3)**
- Heritage honours
- Town of Culture award could boost regional communities
- US and Israel exit UNESCO, claiming bias
- Charities should prepare for a difficult year, NCVO warns
- Transforming leadership fund
- NHS long term plan commits to social prescribing
- WH:UK planning and world heritage position statement
- Winners of £4 million DCMS Wolfson fund announced
- **Government launches plan to tackle air pollution (4)**
- UK Ivory Bill becomes law
- **Retail industry experts have called for a community-focused approach to tackling the challenges facing high streets (see further information above)**

- Concerns over T Level burden
- Creative Europe: Council agrees its position on the programme for 2021-2027
- EU agreement on new rules to clamp down on illicit trafficking in cultural goods
- **Resources and waste strategy for England published (5)**

#### Have your say - Open consultations Incl.

- **Lightning Protection: Design and Installation for historic churches and buildings (6)**
- Heritage Counts 2018 Evaluation
- Consultation explores opportunities for flood and coastal erosion management at a local level and more.

Source: Heritage Update e-Bulletin [online], Issue **No 385**, 17 January 2019, The Heritage Alliance. Available at: [www.theheritagealliance.org.uk/heritage-update](http://www.theheritagealliance.org.uk/heritage-update) [accessed 25 January 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: [www.theheritagealliance.org.uk/update/](http://www.theheritagealliance.org.uk/update/) [accessed 25 January 2019].

**Lucy Top Searching Tip** - This online edition also has a search function that allows you to view articles from current and archived editions.



[https://twitter.com/Heritage\\_NGOs](https://twitter.com/Heritage_NGOs) [accessed 25 January 2019]



<https://www.linkedin.com/grp/home?gid=4898001> [accessed 25 January 2019]

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## Serious concerns over ‘building up’ and permitted development demolition proposals

The Heritage Alliance **has responded** to ‘Planning reform: supporting the high street and increasing the delivery of new homes’. Although **the consultation** has an innocuous name, the Alliance was seriously concerned about the impact of a new permitted development rights to allow building up on top of existing buildings. This could seriously harm non-designated heritage assets and the setting of listed buildings. The Heritage Alliance header this week (see publication date) illustrates the poor design quality which building up often creates. This will only get worse if a permitted development right is created.

The Alliance also has serious concerns over a proposed permitted development right which would allow the demolition of commercial buildings. This has the potential to see the loss of much industrial heritage as well as buildings such as former cinemas, mills or power stations.

#### Related Link:

GOV.UK (2018) Closed consultation: ‘Planning reform: supporting the high street and increasing the delivery of new homes’ [GOV.UK > Home > Housing, local and community > Planning and building > Planning system] GOV.UK [online]. Available at: [www.gov.uk/government/consultations/planning-reform-supporting-the-high-street-and-increasing-the-delivery-of-new-homes](http://www.gov.uk/government/consultations/planning-reform-supporting-the-high-street-and-increasing-the-delivery-of-new-homes) [accessed 25 January 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 385**, 17 January 2019, The Heritage Alliance. Available at: [www.theheritagealliance.org.uk/heritage-update](http://www.theheritagealliance.org.uk/heritage-update) [accessed 25 January 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: [www.theheritagealliance.org.uk/update/](http://www.theheritagealliance.org.uk/update/) [accessed 25 January 2019].

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## Collaborative working in the historic environment sector

In the Heritage Alliance's December #HeritageChat, they explored how the impact of collaborative working can be maximised in the historic environment sector.

Discussion took place over the key attributes for successful collaboration, common challenges, when trying to work together and how the impact of collaboration can be measured effectively. Participants shared examples of models and frameworks that have been used successfully. **The summary can be accessed via the web-link provided below.**

The next #HeritageChat took place on 17 January on "How can infrastructure projects be used to connect communities with place?" led by ClfA's Voluntary and Community Archaeology Group @VolComArch and @hydrayley. Follow #HeritageChat and @HeritageChat to take part.

### Related Link:

Heritage 2020 (2019) 'Collaborative Working in the Historic Environment #HeritageChat' [online]. Available at: <http://www.heritage2020.net/collaborative-working-in-the-historic-environment-heritagechat/> [accessed 25 January 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 385**, 17 January 2019, The Heritage Alliance. Available at: [www.theheritagealliance.org.uk/heritage-update](http://www.theheritagealliance.org.uk/heritage-update) [accessed 25 January 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: [www.theheritagealliance.org.uk/update/](http://www.theheritagealliance.org.uk/update/) [accessed 25 January 2019].

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## Government launches plan to tackle air pollution

Environment Secretary Michael Gove has launched **a new strategy to clean up our air.**

### The new strategy will:

- Introduce new legislation to prohibit the sale of the most polluting fuels – The Alliance submitted evidence to ensure that this does not prevent the sale of coal needed for historic vehicles and machinery. The Government will be taking the evidences and views submitted to develop a final proposal for legislative changes and intend to publish our formal response to the consultation in early 2019; and
- Bring existing smoke control legislation up to date and make it easier to enforce.

The Government will shortly bring forward an Environment (Principles and Governance) Bill. **The draft Environment (Principles and Governance) Bill** sets out how the UK will maintain environmental standards as we leave the EU and build on the vision of the 25 Year Environment plan.

The Bill would create an Office for Environmental Protection. The body will provide independent scrutiny and advice and hold the Government to account on the development and implementation of environmental law and policy. The Government believes the independent body should have a clear remit, acting as a strong and objective voice for environmental protection. However, cultural heritage and many other areas would be outside its scope.

**The Alliance will shortly be submitting a response to the consultation on the draft Bill.**

### Related Links:

GOV.UK, Department for Environment, Food & Rural Affairs, Department of Health and Social Care, The Rt Hon Michael Gove MP and Rt Hon Matt Hancock MP (209) Press release: 'Government launches world leading plan to tackle air pollution' [GOV.UK > Home > Environment > Pollution and environmental quality] GOV.UK [online]. Available at: [www.gov.uk/government/news/government-launches-world-leading-plan-to-tackle-air-pollution?utm\\_source=e2b91780-d81c-414c-aa33-f139c2e7ed30&utm\\_medium=email&utm\\_campaign=govuk-notifications&utm\\_content=immediate](http://www.gov.uk/government/news/government-launches-world-leading-plan-to-tackle-air-pollution?utm_source=e2b91780-d81c-414c-aa33-f139c2e7ed30&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate) [accessed 25 January 2019]

GOV.UK, Department for Environment, Food & Rural Affairs, Ministry of Housing, Communities & Local Government, Department for Transport, Department of Health and Social Care, HM Treasury, and Department for Business, Energy & Industrial Strategy (2019) Policy Paper: 'Clean Air Strategy 2019' [GOV.UK > Home >

Environment > Pollution and environmental quality] GOV.UK [online]. Available at: [www.gov.uk/government/publications/clean-air-strategy-2019](http://www.gov.uk/government/publications/clean-air-strategy-2019) [accessed 25 January 2019]

GOV.UK, Department for Environment, Food, & Rural Affairs (2018) Policy paper: 'Draft Environment (Principles and Governance) Bill 2018' [GOV.UK > Home > Government > Brexit] GOV.UK [online]. Available at: [www.gov.uk/government/publications/draft-environment-principles-and-governance-bill-2018?utm\\_source=0d43480e-0dcf-4e27-95ca-cc1402f33e&utm\\_medium=email&utm\\_campaign=govuk-notifications&utm\\_content=immediate](http://www.gov.uk/government/publications/draft-environment-principles-and-governance-bill-2018?utm_source=0d43480e-0dcf-4e27-95ca-cc1402f33e&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate) [accessed 25 January 2019]

GOV.UK, Department for Environment, Food & Rural Affairs (2018) Open Consultation: '25-year environment plan: measuring progress' [online]. Available at: [www.gov.uk/government/consultations/25-year-environment-plan-measuring-progress](http://www.gov.uk/government/consultations/25-year-environment-plan-measuring-progress) [accessed 25 January 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 385**, 17 January 2019, The Heritage Alliance. Available at: [www.theheritagealliance.org.uk/heritage-update](http://www.theheritagealliance.org.uk/heritage-update) [accessed 25 January 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: [www.theheritagealliance.org.uk/update/](http://www.theheritagealliance.org.uk/update/) [accessed 25 January 2019].

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## Resources and waste strategy for England published

**The strategy** sets out how the Government intends to preserve material resources by minimising waste, promoting resource efficiency and moving towards a circular economy in England.

At 1.3.2 this states that the Government will develop plans to increase resource efficiency and minimise waste in the construction sector, working with the Green Construction Board. It notes that the construction, excavation and demolition sector is estimated to have produced around 120 million tonnes in 2014 in the UK.

However, it is striking that the plan makes no link to the perverse 0% VAT incentive which incentivises the demolition of old buildings rather than their repair and reuse. Measures to encourage the reuse rather than demolition should be embedded in the planning system if the Government seriously wants to tackle this source of waste.

### Related Link:

GOV.UK, Department for Environment, Food & Rural Affairs, and Environment Agency (2018) Policy paper: 'Resources and waste strategy for England' [GOV.UK > Home > Environment > Waste and recycling] GOV.UK [online]. Available at: [www.gov.uk/government/publications/resources-and-waste-strategy-for-england](http://www.gov.uk/government/publications/resources-and-waste-strategy-for-england) [accessed 17 January 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 385**, 17 January 2019, The Heritage Alliance. Available at: [www.theheritagealliance.org.uk/heritage-update](http://www.theheritagealliance.org.uk/heritage-update) [accessed 25 January 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: [www.theheritagealliance.org.uk/update/](http://www.theheritagealliance.org.uk/update/) [accessed 25 January 2019].

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## Have your say – Lightning Protection: Design and Installation for historic churches and buildings

Historic England is updating **guidance on lightning protection**. The new publication will update and replace the former English Heritage publications Lightning Protection for Churches (2000) and Surge Protection Equipment: A guide to selection and installation in historic buildings (2006), and A summary of key differences between **BS 6651: 1999** and **BS EN 62305: Protection against lightning and the new standard's key requirements** (2008).

Historic England welcomes comments and advice on their draft for this new guidance publication.

## Related Links:

Historic England (2019) 'Guidance Open for Consultation – Lightning Protection: Design and Installation for historic churches and buildings' [online]. Available at: <https://historicengland.org.uk/about/what-we-do/consultations/guidance-open-for-consultation/> [accessed 25 January 2019]

**Please note:** The CIS - Construction Information Service (accessed via Athens within the VLE e-Library) provides further guidance on **Lightning Protection, BS 6551** and **BS EN 62305**.

Source: Heritage Update e-Bulletin [online], Issue **No 385**, 17 January 2019, The Heritage Alliance. Available at: [www.theheritagealliance.org.uk/heritage-update](http://www.theheritagealliance.org.uk/heritage-update) [accessed 25 January 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: [www.theheritagealliance.org.uk/update/](http://www.theheritagealliance.org.uk/update/) [accessed 25 January 2019].

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## Latest Edition of **Open Praxis** –

Open Praxis (published by the International Council for Open and Distance Education – ICDE) is a peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education.

Open Praxis [online]. Available at: <http://openpraxis.org/index.php/OpenPraxis> [accessed 25 January 2019] and

Open Praxis Archives [online]. Further information available at <http://openpraxis.org/index.php/OpenPraxis/issue/archive> [accessed 25 January 2019]



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## Open Praxis, Volume 10, No. 3, July - September (2018)

Papers (available in full-text versions) include the following:

### Editorial -

**Title:** Introduction to Open Praxis Volume 10, Issue 3

**ISSN:** 2304-070X

**Publisher:** International Council for Open and Distance Education (ICDE)

**Abstract:** This third *Open Praxis* issue includes seven research papers and a book review. These contributions of sixteen authors from the various countries (Canada, Turkey, Bulgaria, Nigeria, Pakistan, Australia/United Kingdom, Timor-Leste and the United States of America) explain their research and experience in open, distance and flexible education.

**Keywords:** Distance education; higher education; e-learning; MOOC; plagiarism; tracer study; refugees

**Reference:** Gil-Jaurena I (2018) 'Introduction to Open Praxis volume 10 issue 3' *Open Praxis*, 10(3): pp209-210.

doi: <http://dx.doi.org/10.5944/openpraxis.10.3.926> [accessed 25 January 2019]

## Research articles -

**Title:** Exploring the Emerging Field of Online Tertiary Education for Refugees in Protracted Situations

**ISSN:** 2304-070X

**Publisher:** International Council for Open and Distance Education (ICDE)

**Abstract:** “UNESCO believes that education is a human right for all throughout life and that access must be matched by quality.” While this statement is a worthy ideal, it does not meet the needs of all populations, especially our most vulnerable. The refugee crisis has opened up new channels for education to find its place among the supports given to refugees, and that place may be distance education. Some budding research has taken place within the field of sociology, but education technologists are just beginning to investigate the needs of this population with only one study of note published. Several online programs have been implemented and studied within sociology, including Australian Catholic University’s Thai-Burma Program, Borderless Higher Education for Refugees in Kenya and Jesuit Worldwide Learning, which currently has multiple sites worldwide. Looking forward, distance education is aligned to take its place as well. This study is a review of the literature and looks at possible paths for future research into online programme for refugees in protracted situations within the field of educational technology.

**Keywords:** Online learning; e-learning; refugee education; distance education refugee tertiary education.

**Reference:** Reinhardt S (2018) ‘Exploring the Emerging Field of Online Tertiary Education for Refugees in Protracted Situations’ *Open Praxis* 10(3): pp211-220.

doi: <http://dx.doi.org/10.5944/openpraxis.10.3.872> [accessed 25 January 2019]

**Title:** Cheating and Plagiarism in E-Assessment: Students’ Perspectives

**ISSN:** 2304-070X

**Publisher:** International Council for Open and Distance Education (ICDE)

**Abstract:** The aims of this study were to identify students’ perceptions on cheating and plagiarism and trust in e-assessment according to their assessment experience and mode of learning as well as exploring their concerns in e-assessment. Participants were 952 students from two public universities in Turkey and Bulgaria. The study was designed as a cross-sectional survey. A questionnaire consisting of closed and open-ended questions was applied to collect data. Descriptive statistics, t-test, ANOVA and thematic analyses were performed. According to the results, no significant difference was found on students’ perceptions towards cheating and plagiarism and their feelings of trust in e-assessment regarding students’ prior e-assessment experience. However, there was a significant difference on students’ perceptions towards cheating and plagiarism and their feelings of trust in e-assessment regarding the mode of learning they are involved in. In addition, students’ concerns about e-assessment were explored in detail in the paper.

**Keywords:** e-assessment; cheating; plagiarism; students’ perspectives; higher education

**Reference:** Kocdar S, Karadeniz A, Peytcheva-Forsyth R, and Stoeva V (2018) ‘Cheating and Plagiarism in E-Assessment: Students’ Perspectives’, *Open Praxis*, 10(3): pp221-235.

doi: <http://dx.doi.org/10.5944/openpraxis.10.3.873> [accessed 25 January 2019]

**Title:** Entry Qualifications of Students as Predictors of Academic Performance in Various Degree Programmes in Distance Education setting in Pakistan

**ISSN:** 2304-070X

**Publisher:** International Council for Open and Distance Education (ICDE)

**Abstract:** Academic performance of students has always been the area of concern for educational institutions as it is a key indicator of institutional quality. To have a better output the higher education institution set some admission criteria such as scores on specified international standardized tests, previous academic qualifications, and admission tests of students or a combination of such scores. Virtual University of Pakistan (VU) is a technology-based distance learning institution that facilitates students who are unable to attend traditional institutions of higher education for a variety of reasons. It was of interest to the researchers to study the entry

qualifications of students i.e. the admission criteria, as predictor of their academic performance in various degree programs at VU. For that purpose, the data of 5825 graduates in different two years master's programs in 2015-16 were taken as sample. The entry qualifications of students, and cumulative scores of their previous academic qualifications were taken as predictors of their performance i.e. cumulative grade point average (CGPA), in relevant degree program. Descriptive (range, percentage) and inferential (Pearson R, multiple regression) statistics were applied after grouping the students into low, average and high achievers on cumulative scores as well as entry qualification scores. The results showed significant differences in the predictions and their implications are useful for policy makers and relevant departments of the university as well as for other distance learning educational institutions.

**Keywords:** Entry qualifications; academic performance; distance education; cumulative scores; Pakistan

**Reference:** Abdullah N, and Mirza M (2018) 'Entry Qualifications of Students as Predictors of Academic Performance in Various Degree Programs in Distance Education setting in Pakistan', *Open Praxis*, 10(3), pp237-247.

doi: <http://dx.doi.org/10.5944/openpraxis.10.3.848> [accessed 25 January 2019]

**Title:** **The relationship between Personality Traits, Learning Styles and Academic Performance of E-Learners**

**ISSN:** 2304-070X

**Publisher:** International Council for Open and Distance Education (ICDE)

**Abstract:** The rapid growth of e-learning has greatly influenced the educational system across the globe. Personality traits and learning styles are both likely to play considerable roles in influencing achievement of e-learners. Based on this foundation, a study was designed that attempts to establish the missing links between personality traits, learning styles, and academic performance of students enrolled in various e-learning courses. University students (N=144) completed the Big Five Inventory (BFI), Index of Learning Style (ILS) and reported their grade point average (GPA). One of the Big Five traits i.e. extraversion was positively related with all four learning styles whereas neuroticism was negatively related with all four learning styles. It has also been revealed that GPA was positively correlated with three personality traits and was negatively correlated with neuroticism. Similarly, GPA was positively correlated with three learning styles. Finally, there were no significant differences in learning styles and personality traits of e-learners in terms of gender. Implications of these results are expected to help academics, managers, and policy makers for implementation of future e-learning strategies in Pakistan.

**Keywords:** Personality traits; Learning styles; Academic performance; e-learning

**Reference:** Siddiquei N, and Khalid D (2018) 'The relationship between Personality Traits, Learning Styles and Academic Performance of E-Learners', *Open Praxis*, 10(3), pp249-263.

doi: <http://dx.doi.org/10.5944/openpraxis.10.3.870> [accessed 25 January 2019]

**Title:** **Employers' Perception and Expectations of Professional Competency of Distance Learning Graduates: A Tracer Study of Nursing Graduates of the National Open University of Nigeria (NOUN)**

**ISSN:** 2304-070X

**Publisher:** International Council for Open and Distance Education (ICDE)

**Abstract:** This tracer study was designed to track National Open University of Nigeria (NOUN) graduate nurses in their place of work with a view to ascertaining their level of professional competency and to explore employers' expectation of graduate competencies. The study employed the descriptive survey design. Participants included 222 NOUN alumni who graduated in nursing programme and a corresponding 222 heads/top-level managers of the organisations where the graduate nurses were employed. Multiple instruments were used to collect data including competency test, survey questionnaire, and direct observation. Several remarkable findings emerged from this study, both expected and unexpected. Majority of sampled graduates appeared to possess high level of professional competency in all three competency dimensions measured. A significant proportion of employers seemed to hold high perception regarding the graduates. In matching the employers' perception of ODL graduates against actual competencies of NOUN graduate nurses with the use of quadrant analysis, the resulting values showed that a significant proportion of the graduates met and exceeded employer expectation.

**Keywords:** tracer study; NOUN; graduate nurses; professional competency; employer expectation.

**Reference:** Ofoha D, and Iwuchukwu O (2018) 'Employers' Perception and Expectations of Professional Competency of Distance Learning Graduates: A Tracer Study of Nursing Graduates of the National Open University of Nigeria (NOUN)' *Open Praxis*, 10(3), pp265-278.

doi: <http://dx.doi.org/10.5944/openpraxis.10.3.796> [accessed 25 January 2019]

**Title:** Experiences of Timorese language teachers in a blended Massive Open Online Course (MOOC) for Continuing Professional Development (CPD)

ISSN: 2304-070X

**Publisher:** International Council for Open and Distance Education (ICDE)

**Abstract:** This paper details the experiences of a group of Timorese English language teachers from Lorosa'e English Language Institute (LELI) in Dili, Timor-Leste, who participated in a professional development MOOC entitled Teaching for Success: Lessons and Teaching between March and April 2017. Drawing on the pedagogical principles of blended learning; participants engaged with online course content, and once a week met as a study group to view some video content together and discuss issues arising from it. The authors draw on participant engaged with online course content, and once a week met as a study group to view some video content together and discuss issues arising from it. The authors draw on participant observation, individual and focus group interviews and post-course author reflections to outline the benefits and challenges of doing blended MOOCs in Dili and propose that they can provide local English language teachers opportunities for subject area knowledge building, language literacy development and more general lifelong learning.

**Keywords:** Online learning; MOOC; global South; developing countries; Continuing Professional Development; teacher training; Timor-Leste

**Reference:** King M, Luan B, and Lopes E (2018) 'Experiences of Timorese language teachers in a blended Massive Open Online Course (MOOC) for Continuing Professional Development (CPD)' *Open Praxis*, 10(3), pp279-287.

doi: <http://dx.doi.org/10.5944/openpraxis.10.3.840> [accessed 25 January 2019]

**Title:** Are Private Universities Exempt from Student Concerns About Textbook Costs? A Survey of Students at American University

ISSN: 2304-070X

**Publisher:** International Council for Open and Distance Education (ICDE)

**Abstract:** A survey conducted in the fall of 2015 at American University in Washington, DC shows that rising textbook prices similarly affect students at an expensive private university at those at community colleges and state schools. Research on high textbook costs that has demonstrate corollary unwanted behaviour changes in students, including not purchasing the book, resorting to illegal online downloads, and poor study habits, were confirmed at American University as well. Solutions that have been proposed to this problem of prohibitive textbook prices, including Open Education Resources (OER), could have an equally profound impact at American University, and potentially similar private universities, as has been demonstrated at less selective and more affordable counterparts.

**Keywords:** Textbooks; cost; higher education; OER; open educational resources.

**Reference:** Murphy L, and Rose D (2018) 'Are Private Universities Exempt from Student Concerns About Textbook Costs? A Survey of Students at American University' *Open Praxis*, 10(3), pp289-303.

doi: <http://dx.doi.org/10.5944/openpraxis.10.3.866> [accessed 25 January 2019]

## Book reviews -

**Title:** Book Review of Best Practices for Teaching with Emerging Technologies

ISSN: 2304-070X

**Publisher:** International Council for Open and Distance Education (ICDE)

**Abstract:** This book is full of examples of how teachers can integrate technology into their classroom and should inspire the most tentative teachers to try something new. As with any book centered on emerging technologies,

the content runs the risk of becoming outdated quickly, but the author acknowledges this in the introduction and continues to build on central tenants as evidenced in a second edition placing emphasis on smartphone and social media usage.

**Keywords:** higher education; distance learning; emerging technology.

**Reference:** Belt E (2018) 'Book Review of Best Practices for Teaching with Emerging Technologies' *Open Praxis*, 10(3), pp305-306.

doi: <http://dx.doi.org/10.5944/openpraxis.10.3.896> [accessed 25 January 2019]

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## **EURODL (European Journal of Open, Distance and E-Learning) –**

**EURODL (European Journal of Open, Distance and E-Learning)** is an electronic, multi-media, [open access journal](#). It publishes the accounts of research and presents scholarly work and solid information about open, distance, online and e-learning in technology-enhanced education and training in its most inclusive definition.

**Incl.** Liyanagunawardena T, Scalzavara S, **University College of Estate Management (UCEM)** and Williams S, University of Reading (2017) 'Open Badges: A systematic Review of Peer Reviewed Publishers Literature (2011-2015)', EURODL

Open badges are a digital representation of skills or accomplishments recorded in a visual symbol that is embedded with verifiable data and evidence. They are created following a defined open standard, so that they can be shared online. Open Badges have gained popularity around the world in recent years and have become a standard feature of many learning management systems. This paper presents a systematic literature review of the published open badges literature from 2011 to 2015. Through database searches, searching the internet and chaining from known sources, 135 relevant peer-reviewed papers were identified from a corpus of 247 publications for this review. The authors believe this to be the first effort to systematically review literature relating to open badges. The review categorised publications while also providing quantitative analysis of publications according to publication and contributors. After assessing the literature suggestions for future research directions are presented, based on under-represented areas.

Liyanagunawardena T, Scalzavara S, University College of Estate Management (UCEM) and Williams S, University of Reading (2017) 'Open Badges: A systematic Review of Peer Reviewed Publishers Literature (2011-2015)', De Gruyter Open, *European Journal of Open, Distance and E-Learning - EURODL* [online], 8 September. Available at: [www.eurodl.org/?p=current&sp=full&article=754](http://www.eurodl.org/?p=current&sp=full&article=754) [accessed 25 January 2019]

**EURODL (European Journal of Open, Distance and E-Learning) – Overview** [online]. Available at: [www.eurodl.org/](http://www.eurodl.org/) and <https://content.sciendo.com/view/journals/eurodl/eurodl-overview.xml> [accessed 25 January 2019]

**Most downloaded articles (as of 24 January 2019) incl.**

1. Who are the Open Learners? A Comparative Study Profiling Non-Formal Users of Open Educational Resources by Farrow R [et al.]
2. Predicting Dropout Student: An Application of Data Mining Methods in an Online Education Program by Yukselturk E [et al.]
3. Cross-Cultural Communication and Collaboration: Case of an International e-Learning Project by Toprak E and Genc-Kumtepe E
4. Learner Attrition in an Advanced Vocational Online Training: The Role of computer Attitude, Computer Anxiety, and Online Learning Experience by Stiller K D and Köster A

5. Research Trends in Turkish Distance Education: A Content Analysis of Dissertations, 1986-2014 by Bozkurt, A [et al.]
6. MOOCs As A Method Of Distance Education In The Arab World – A Review Paper by Adham R S and Lundqvist K O
7. The Flipped-Classroom Approach: The Answer to Future Learning? By Kurtz G, Tsimerman A, and Steiner-Lavi O
8. **Open Badges: A Systematic Review of Peer-Reviewed Published Literature [2011-2015] By Liyanagunawardenam T, Scalzavara S, and Williams, S. (see above)**
9. Aesthetic Literacy: Observable Phenomena And Pedagogical Applications for Mobile Lifelong Learning (MLLL) by Gallagher M S and Ihanainen P
10. Differences Between Regular and Distance Education in a Teacher’s Training Program, by Zacharias G, and Yiannis G

Access to these articles are available within the above-mentioned web-link.

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## **OLC Online Learning Journal – Latest issue published**

**LATEST NEWS:** The MERLOT Journal of Online Learning and Teaching (JOLT) was a peer-reviewed, open-access, online publication that promoted scholarship in the use of the Internet and web-based multimedia resource in higher education.

The MERLOT community is now joining with the Online Learning Consortium (OLC – formerly Sloan-C) to expand scholarly research in the field of online education, with a merger of the *Journal Online Learning* (formerly JALN) and the *Journal of Online Learning and Teaching* (JOLT). Further information is available at Online Learning Consortium [online] and available at: <https://onlinelearningconsortium.org/read/olc-online-learning-journal/> [accessed 25 January 2019]

### **Papers in this latest issue of *Online Learning Journal* incl.**

This issue of OLJ presents 13 articles researching Massive Open Online Courses (MOOCs), leadership perspective, student engagement, academic integrity, pedagogy, and support. These papers advance our understanding of online learning with insights from a broad array of national and international investigators using quantitative, qualitative, and mixed methods approaches to inquiry.

The Online Learning Consortium’s premier journal dedicated to the development and dissemination of new knowledge at the intersection of pedagogy, emerging technology, policy, and practice in online environments.

#### **Table of Contents**

#### **Special Conference Issue: AERA Online Teaching and Learning SIG**

- Farmer T, Richardson J, and Swan K (2018) ‘Introduction to Special Issue [S.I.]: AERA 2018 OTL SIG’, *Online Learning Journal [online]*, 22(4). Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1584> [accessed 25 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1584> [accessed 25 January 2019]

- Introduction to the Special Issue: The American Educational Research Association (AERA) 2018 Online Teaching and Learning (OTL) Special Interest Group (SIG).

Peterspm A T, Beymer P N, and Putcnam R T (2018) ‘Synchronous and Asynchronous Discussions: Effects on Cooperation, Belonging and Affect’, *Online Learning Journal [online]*, [S.I.], 22(4). Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1517> [accessed 25 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1517> [accessed 25 January 2019].

- Supporting productive peer-to-peer interaction is a central challenge in online courses. Although cooperative learning research provides robust evidence for the positive outcomes of face-to-face cooperative learning (Johnson & Johnson, 1989), online modes of cooperative learning have provided mixed results. This study examines the effects of synchronous versus asynchronous interaction on students’ sense of cooperation, belonging, and affect in online small-group discussions. Fifty-two undergraduate students were assigned to

synchronous and asynchronous interaction conditions. The findings support prior research that asynchronous communication interferes with the relationship between cooperative goals and the outcomes of cooperation. Results inform theory and practice, by showing that asynchronous cooperative learning may not work as designed because the presence of cooperative goals do not predict cooperative outcomes.

*Keywords:* Online learning, synchrony, asynchronous, cooperative learning, belonging, affect, cognitive processes.

- Warren A N (2018) '**Navigating assigned roles for asynchronous online discussions: Examining participants' orientation using conversation analysis**', *Online Learning Journal*, [S.I.], 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1511> [accessed 25 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1511> [accessed 25 January 2019].

- Students in a fully-online learning environment have limited access to opportunities to talk about math problem solving. While discourse is a promising pedagogical model, less is known about how it translates to online math learning. We analysed online platform data from two fully-online virtual elementary schools in the United States to address the following research questions: (a) is participating in math discourse about reasoning and problem-solving related to students' confidence, self-efficacy toward math, and math mindset in an online learning environment? (b) Is participation in math discourse related to math performance? The results showed that (a) repeated participation in the discourse sessions in a course was not directly related with changes in confidence, self-efficacy toward math, and math mindset, and (b) higher numbers of sessions that students participated in was associated with higher performance in final math course score and state assessment results, after controlling for prior performance and confidence, self-efficacy and mindset scores.

*Keywords:* math discourse; mathematics instructions; online learning.

- Wilton L (2018) '**Quiet Participation: Investigating non-posting activities in online learning**', *Online Learning Journal*, [S.I.], 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1518> [accessed 25 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1518> [accessed 25 January 2019].

- Despite the growth in online learning offerings in K-12 and higher education, limited research has been undertaken to better understand less visible online learning activities. Reading and rereading are not typically valued as important indicators of learning since number or frequency of entries, words or key phrases are usually visible and easily tracked. This paper addresses reading, writing and revisiting behaviours by cluster groups in eight online courses, and looks for patterns related to rereading. Participant perceptions of the value of rereading entries in online learning are discussed. The findings highlight the importance of a more nuanced understanding of the different roles reading and rereading play in online learning discussions. This research informs our understanding of the different roles reading and rereading play in online learning discussions. This research informs our understanding of the importance of non-posting behaviours to student learning. Instructionally, these results may encourage valuing of different "paths" to online learning success beyond the criterion of written entries.

*Keywords:* online learning discussions, rereading, revisiting, non-posting participation.

- Bonafini F (2018) '**Characterising Super-Posters in a MOOC for Teachers' Professional Development**'. *Online Learning Journal* [S.I.], 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1503>. [accessed 25 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1503> [accessed 25 January 2019].

- Massive Open Online Courses (MOOCs) attract thousands of participants who each exercise autonomy by engaging with resources and with other participants to whatever degree they wish. When analysing participants' patterns of engagement in MOOCs it is possible to notice that certain participants exhibit high levels of participation, actively engaging with others in forums. This study focuses on characterising these highlight active participants and understanding their contributions back to the network in a MOOC designed for teachers' professional development. Connectivism is used as theoretical lens to describe super-posters' engagement in forums. Data from participants' demographics, click-data, and forum posts are used to identify these highly active users. Qualitative content analysis is used to categorise the content of their posts, and social network analysis I used to represent their patterns of engagement. Results show that super-posters are generators of engagement, repurposing the content learned from the MOOC and feeding-forward new resources to the network. Super-posters' engagement in forums. Data from participants', demographics click-data, and forum posts are used to identify these highly active users. Qualitative content analysis is used to represent their

patterns of engagement. Results show that super-posters are generators of engagement, repurposing the content learned from the MOOC and feeding-forward new resources to the network. Super-posters can be seen as representatives of participation inequality in forums. They position themselves as the most prestigious and most influential nodes in the networks created by participants as they engage in forums. In some networks super-posters can be seen as representative of participation inequality in forums. They position themselves as the most prestigious and most influential nodes in the networks created by participants as they engage in forums. In some networks super-posters serviced as bridges, connecting people from different discussion threads and helping information to flow through the network. This study provides to MOOC designers and MOOC instructors an affordable method to identify and classify super-posters in any MOOC. Findings of this study could be used by MOOC designers and MOOC instructors to develop pedagogical interventions to give these participants a special role in the next MOOC cohort, which may foster engagement in MOOC forums and nurture the cyclical process of learning described in Connectivism. Regarding implications for research, this study attends the need for qualitative methods when analysing participants' engagement in MOOC forums and contributes to our knowledge of participation inequality. It also extends the literature of super-posters by showing their characterization in a MOOC focused on teachers' professional development.

*Keywords:* MOOCs for Teachers; Participation Inequality in Forums, Super-posters, High Active Participants in MOOCs; Most Active Users; MOOC Forums; Qualitative Research.

- Swan K, Bloemer W [et al.] (2018) '**Digging deeper into the data: The role of gateway courses in online student retention**'. *Online Learning Journal* [S.l.], 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1515> [accessed 25 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1515> [accessed 25 January 2019].

- Improvement in undergraduate retention and progression is a priority at many US postsecondary institutions and there seems to be a growing movement to address it by identifying gateway courses (foundational course in which many students fail or withdraw) and concentrating on "fixing" them. This paper argues they may not be the best use of limited resources. No matter what we do, there will always be courses with high DFW rates simply because of the nature of their content and the preparation of the students who must take them. Our research suggests that student type and academic staff affect student success and that gateway courses (courses which block student progression) can be found at all undergraduate levels. Specifically, we have found that one can use student type, academic staff, cumulative GPA, and prior withdrawals to predict success in undergraduate courses. Moreover, relating predictions to observed DFW rates can highlight courses exceeding expectations, and those which fall below them, to support a more nuanced understanding of where and what attention is needed. We illustrate the utility of such approach by examining issues surrounding success in online courses at our institution.

*Keywords:* predictive analytics; gateway courses; student success.

- Hobson T D, Puruhito K K (2018) '**Going the Distance – Online Course Performance and Motivation of Distance-Learning Students**'. *Online Learning Journal* [S.l.], 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1516> [accessed 25 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1516>. [accessed 25 January 2019].

- This study was designed to better understand what drives the learning and performance of students enrolled in distance-learning courses. Between 1999 and 2008, the number of students enrolled in at least one online course increased from 10% to 24% (NCES, 2014). In 2015, the number of students enrolled in at least one distance-learning course approached 6 million, with close to half of those students enrolled in programs that are exclusively online (NCES, 2018; Allen & Seaman, 2017). This enrolment growth, however, is coupled with an alarmingly high attrition rate – a rate as high as 50% greater than campus-offered programs (Willging & Johnson, 2009). As GPA and course performance have been linked to distance-learning persistence and retention, we found it imperative to explore differences in motivational or orientations as they relate to passing and failing status for an individual course. To do so, we surveyed distance learning students and identified correlations between motivational constructs such as instrumentality, self-efficacy, connectedness, use of knowledge building strategies, and final course performance. Differences related to gender and major/non-major status are also reviewed and discussed. These findings offer insights into next steps for research, but also inform teaching practice.

The above & further articles are available via the source link provided below.

## Section II incl.

- Shea P (2018) 'Introduction to Section II'. *Online Learning Journal* [S.I.], 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1591> [accessed 4 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1591> [accessed 25 January 2019].
- McKenna B M, Finamore D [et al.] (2018) 'The Effect of a Multifactor Orientation on Student Performance: Organisational Skills, Goal setting, Orientation to Classroom, and Academic Support', *Online Learning Journal*, [S.I.], 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1207> [accessed 25 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1207> [accessed 25 January 2019]

- Online classes have significantly increased over the last 20 years (see publication date). From a simple asynchronous model to a complex, interactive, live system, they challenge many online students. Based on Knowles' Andragogy theoretical framework, researchers sought to explore the qualities students need to complete a first term undergraduate online course. Researchers conducted a quantitative exploratory study to identify the effects of offering a multifactor orientation; this was an extra seminar online, focused on *organisational skills, goal setting, orientation to the online classroom, and academic support* for successfully completing a first term class. Participants at an online university in a first term course agreed to attend a faculty-led, one-hour presentation; this was an extra seminar focusing on organisational skills, goal setting, orientation to the online classroom, and academic support. A total of 25 students volunteered and attended the extra seminar, provided by three faculty members who were experienced in teaching first-term students in a school of business at a large online university. There was a total of six separate classes of students, each attending a first-term, 10-week course, *Academic Strategies for the Business Professional*. The course is a combination of synchronous live seminars- and other asynchronous interactive exercises, focusing on providing a foundation for secondary learning. Students in three of those classes were invited to participate. Three faculty members randomly selected a section of this course prior to the beginning of a new term. Once the term started, the faculty, during the first regular live seminar, invited their respective students to the selected treatment class. A total of 144 students were still on the roster at the end of the courses. Of those, 25 were male (17%). There were only 35 males in all the classes, 24% of the total number of students, so the percentage of males in the treatment group was less than the number of males in all the courses. The average number of males (25%) are enrolled in the school. There was no compensation for attending the extra seminar and an IRB approved the study.

**Keywords:** organisational skills, goal setting, orientation to online class, academic support

- Yu T (2018) 'Examining Construct Validity of the Student Online Learning Readiness (SOLR) Instrument Using Confirmatory Factor Analysis', *Online Learning Journal* [S.I.], 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1297> [accessed 25 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1297> [accessed 25 January 2019].

- This study examines the construct validity of the Student Online Learning Readiness (SOLR) instrument. The SOLR instrument consists of 20 items to evaluate social competencies, communication competencies, and technical competencies in online learning. A large Midwestern university was selected to test the construct validity of the SOLR instrument. A total of 347 undergraduate students participated in this study. Confirmatory factor modelling approach was used to assess the construct validity of the SOLR instrument for this study. As a result of Confirmatory Factor Analysis (CFA), the hypothesized model of 20-item structure of the SOLR instrument was verified as a good fit for the data ( $\chi^2(164, N=347)=1959.94, p<.001, IFI=.81, CFI=.81, GFI=.55, RMSEA=.016$ ).

**Keywords:** Student readiness; online learning; factor analysis.

- Truhlar A M (2018) 'Student engagement with course content and peers in synchronous online courses discussions', *Online Learning Journal* [S.I.], 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1389> [accessed 25 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1389> [accessed 25 January 2019].

- As higher education institutions in United States offer online courses to growing audiences, there is increasing desire to understand how best to engage students with both course content and their peers. This case study examines the effects of assigning chat roles and facilitating self and group reflection on student-content and student-student interaction outcomes in four synchronous chats conducted in an online introductory-level sustainability course. We also considered what occurred within group reflections to inform how they are structured in the future. We found that assigning roles increased the proportion of critical student-student interactions. Self-reflections had no effect on either interaction type. Groups completing group reflections had a greater of critical student-content interactions in the third chat and critical student-student interactions in the fourth chat than the groups that did not complete the group reflections. Based on our results, we plan to keep roles and group reflections going forward and eliminate self-reflections. Furthermore, to increase the effectiveness of the group reflections, we propose some ideas to increase student ability to convert their ideas into change during subsequent chats.

**Keywords:** Online debate; Roles; Reflections; Critical thinking; Socratic questioning; Student agency

- Buelow J R, Barry T A [et al.] (2018) **'Supporting Learning Engagement with Online Students'**, *Online Learning Journal*, [S.I.] 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1384>. [accessed 25 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1384>. [accessed 25 January 2019].

- University students are increasingly demanding that traditionally taught courses are converted to an online platform. While quality standards are in place for the format and organisation of online courses, professors often are left wondering what activities contribute to learning engagement for their online students. The research question driving this study was, what activities contribute to learning engagement for online students? To investigate this question, an online survey was conducted in one state university of all students taking an online course during the spring semester. With responses from 417 students and using three standardised scale variables for learning engagement, as well as two open-ended questions, course components related to strong learning engagement were identified and examined, Initial findings indicated a statistically significant moderate correlation of learning engagement with the use of higher-order learning and reflective and integrative learning techniques. Specifically, students who reported being highly engaged connected ideas from other courses, changed their understanding of a topic or concept, found connections between their learning and societal problems, and had fun. A regression model using these variables, along with control variables of student age, gender, and out-of-school work, resulted in an R<sup>2</sup> of 0.484, suggesting that almost half of the variance in learning engagement can be explained via this model. Further analysis of the qualitative data identified certain aspects of online discussions and assignments as engaging, such as discussions and interactive assignments that are not merely “fun” from a student perspective but also integrate previous learning and connect to current social issues. This includes prompting students with thought-provoking questions that relate to “real-world” situations and inviting students to share diverse opinions as well as develop personal perspectives.

**Keywords:** learning engagement; higher order learning; reflective and integrative learning; discussion forums; interactive assignments; online learning.

**Source:** *Online Learning Journal* [online], **Volume 22, No. 4, December 2018**. Available at <https://olj.onlinelearningconsortium.org/index.php/olj> [accessed 25 January 2019] Online Learning Consortium (OLC)

**Related Links:**

**MERLOT – Multimedia Educational Resource for Learning and Online Teaching** [online] and further information available at: <https://www.merlot.org/merlot/index.htm> [accessed 25 January 2019]. **JOLT**, MERLOT’s Journal for Online Learning and Teaching [online] and available at: <http://jolt.merlot.org/index.html> [accessed 25 January 2019]

### ***The State of Innovation in Higher Education: A Survey of Academic Administrators***

This report explores the drivers and barriers to innovation at U.S. higher education institutions. The report, which is based on a survey of more than 100 U.S. academic administrators, reveals what an innovative culture looks like and how higher education institutions define and employ innovation.

A joint project of The Learning House, Inc. and the Online Learning Consortium (OLC) [online]. Available at: <https://onlinelearningconsortium.org/read/state-of-innovation-in-higher-education/> [accessed 25 January 2019]

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### **The Open Education Research Hub ([OER Hub](#))**

The Open Education Research Hub (OER Hub) research the impact of open educational resources (OER) in teaching and learning practices.

**OER Hub – Researching Open Education** gathers research on the impact of open educational resources ([OER](#)) on learning and teaching practices. The OER Research Hubs intention is to respond to a need from the OER world for more research on which they can base their decisions. The Research Hub shares evidence that is gathered through mixed methods research including interviews, surveys, focus groups, critical incidence analysis, activity theory and analysis of learning design. Findings are likely to be of interest to a wide range of stakeholders in the education sector. The project is based at [The Open University’s \(OU\) Institute of Educational Technology](#) and is the OU’s flagship project for research into open education and OER.

Open Educational Resources (OER) Research Hub [online]. Further information is available at <http://oerhub.net/> [accessed 25 January 2019].

Within the OER Hub there are sections on

**Publications** incl. research articles, book chapters and conference proceedings

**Research and Outputs** Incl. Academic publications, presentations, non-traditional outputs, and openly licensed data.

**& Case Studies** incl. examples of collaborations and activities highlighting areas of research or data analysis carried out for key clients.

Example articles/papers in the most recent **Summary of Research Dissemination** (available to download from the below mentioned link and under 'Publications') include:

Articles from *Open Praxis* highlighted earlier on, as well as

- De los Arcos B, Farrow R, Weller M, and McAndrew P (2016) 'Personalising learning through adaptation: Evidence from a global survey of K-12 teachers' perceptions of their use of open educational resources', *Journal of Online Learning Research*, 2(1), 23-40. Association for the Advancement of Computing in Education (AACE). Accessible via the **LearnTechLib** (The Learning and Technology Library) [online]. Available at: [www.editlib.org/p/151664](http://www.editlib.org/p/151664) [accessed 25 January 2019]
- Farrow R, de los Arcos B, and Weller M (2015) 'Who are the Open Learners? A Comparative Study Profiling Non-Formal Users of Open Educational Resources', *European Journal of Open, Distance and E-learning*, 18(2) [online]. Available at: <http://oro.open.ac.uk/44962/> [accessed 25 January 2019]
- Pitt R (2015) 'Mainstreaming Open Textbooks: Educator Perspectives on the Impact of OpenStax College open textbooks', *The International Review of Research in Open and Distributed Learning* (IRRODL) 16(4): 133-155 [online]. Available at: [www.irrodl.org/index.php/irrodl/article/view/2381](http://www.irrodl.org/index.php/irrodl/article/view/2381) [accessed 25 January 2019]
- Deimann M, and Farrow R (2013) 'Rethinking OER and their use: Open Education as Building', *International Review of Online and Distance Learning* 14(3) [online]. Available at: [www.irrodl.org/index.php/irrodl/article/view/1370/2542](http://www.irrodl.org/index.php/irrodl/article/view/1370/2542) [accessed 25 January 2019].
- McAndrew P, and Scanlon E (2013) 'Open learning at a distance: lessons for struggling MOOCs', *Science*, 342 pp. 1450-1451 [online]. Available at: <http://oro.open.ac.uk/39736/> [accessed 25 January 2019]
- McAndrew P, and Farrow R (2013) "Open Education Research: From the Practical to the Theoretical" in McGreal, R., Kinuthia, W. and Marshall, S. (eds) *Open Educational Resources: Innovation, Research and Practice*. Commonwealth of Learning and Athabasca University, Vancouver. pp.65-78 [online]. Available at: <https://oerknowledgecloud.org/content/open-education-research-practical-theoretical> [accessed 25 January 2019].
- De Liddo A, Buckingham S S, McAndrew, P, and Farrow, R. (2012) 'The Open Education Evidence Hub: A Collective Intelligence Tool for Evidence Based Policy'. In Okada, A. (ed.) *Open Educational Resources and Social Networks: Co-Learning and Professional Development*. London: Scholio Educational Research & Publishing [online]. Available at: [http://oer.kmi.open.ac.uk/?page\\_id=1201#.V6NI\\_esrJhE](http://oer.kmi.open.ac.uk/?page_id=1201#.V6NI_esrJhE) [accessed 25 January 2019].

Open Educational Resources (OER) 'Summary of Research Dissemination - OER Hub' [OER Hub – Researching Open Education homepage > Research & outputs > Publications] OER Hub [online]. Further information is available at: <http://oerhub.net/> [accessed 25 January 2019].

#### **Related links:**

Open University (OU) UK [online] and available at: [www.open.ac.uk/](http://www.open.ac.uk/) [accessed 25 January 2019]

Open University (OU) UK, Institute of Education Technology [online] and available at: [www.open.ac.uk/iet/main/](http://www.open.ac.uk/iet/main/) [accessed 25 January 2019]

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## **The Directory of Open Access Journals (DOAJ) –**

The Directory of Open Access Journals covers all open access scientific and scholarly journals using a quality control system to guarantee the content.

The aim of the DOAJ is to increase the visibility and ease of open access scientific and scholarly journals, therefore promoting increased usage and impact.

### Some key DOAJ facts (as of 25/01/2019):

- 12,482 journals
- 9,545 journals searchable at article level
- 129 countries
- 3,693,940 articles

The Directory of Open Access Journals (DOAJ) <https://doaj.org/> [accessed 25 January 2019]

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## e-Journal Review cont.

### Taylor and Francis Online

Every month I will be highlighting a few full-text e-Journals that are currently available through the UCEM e-Library.

This month we focus on the latest articles from those Taylor & Francis Online / Routledge journals that we now have full subscription to and this includes access to the archive of back issues (from 1995 for those journals that have print that go back that far and to the current day) incl.

- ***Construction Management and Economics***
- ***Building Research and Information*, and**
- ***Journal of Property Research*.**

### Construction Management and Economics

1. ***Construction Management and Economics*** (CME) is the leading international refereed journal that publishes original research concerning the management and economics of building and civil engineering, while also including the management of built facilities.

Taylor and Francis, *Construction Management and Economics* [online]. Available at: [www.tandfonline.com/toc/rcme20/current](http://www.tandfonline.com/toc/rcme20/current) [accessed 25 January 2019]

Example articles/papers in the most recent issue include:

- **The interplay between formal and informal elements in analysing situations of role conflict among construction participants**

Kabiri S and Hughes W (2018) '**The interplay between formal and informal elements in analysing situations of role conflict among construction participants**', *Construction Management and Economics*, 36(12), pp651-665, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/01446193.2018.1472794](https://doi.org/10.1080/01446193.2018.1472794) [accessed 25 January 2019]

- **Incorporating the effect of weather in construction scheduling and management with sine wave curves: application in the United Kingdom**

Ballesteros-Pérez P, Smith S T [et al.] (2018) '**Incorporating the effect of weather in construction scheduling and management with sine wave curves: application in the United Kingdom**', *Construction Management and Economics*, 36(12), pp666-682, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/01446193.2018.1478109](https://doi.org/10.1080/01446193.2018.1478109) [accessed 25 January 2019]

- **Extending and operationalizing construction productivity measurement on building projects**

Forsythe P (2018) '**Extending and operationalizing construction productivity measurement on building projects**', *Construction Management and Economics*, 36(12), pp683-699, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/01446193.2018.1480834](https://doi.org/10.1080/01446193.2018.1480834) [accessed 25 January 2019]

- **Knowledge coordination in transnational engineering projects: a practice-based study**

Ramalingam S and Mahalingam A (2018) '**Knowledge coordination in transnational engineering projects: a practice-based study**', *Construction Management and Economics*, 36(12), pp700-715, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/01446193.2018.1498591](https://doi.org/10.1080/01446193.2018.1498591) [accessed 25 January 2019]

**Please note:** that this journal can be accessed (IN FULL) via the **VLE e-Library**, and by logging into **Athens – Section 2**, and by selecting **Taylor and Francis Online** via the **Resources** tab.

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## Building Research and Information

**2. Building Research and Information** (BRI) is a leading international refereed journal focused on buildings and their supporting systems. Unique to BRI is a focus on a holistic, trans-disciplinary approach to their life: planning, briefing, design, construction, occupation and use, property exchange and evaluation, maintenance, alteration and end of life. Published articles provide conceptual and evidence-based approaches which reflect the complexity and linkages between cultural, environmental, economic, social, organisational, quality of life, health, well-being, design and engineering of the built environment.

**BRI's wide scope embraces:**

- The linkages between the built, natural, social and economic environments, with an emphasis on the interactions between theory, policy and practice: impacts on ecologies, resources (water, energy, air, materials, buildings stocks etc.), sustainable development (social, economic, environmental, and natural capitals) and climate change (mitigation and adaptation).
- The (design, technical, social, organisational, economic) performance, impacts, assessment, contributions, improvement and value of buildings, building stocks and related systems.
- The supply chain capabilities to innovate, design, create, maintain and improve the performance of both buildings and products
- Changing demands and aspirations for architectural design, development and property
- Formulation of public policy; research, academic and innovation capabilities; organisational structures and networks; engagement between research users, policy makers and practitioners to effectively support the above scope and objectives.

Taylor and Francis, *Building Research and Information* [online]. Available at: [www.tandfonline.com/toc/rbri20/current](http://www.tandfonline.com/toc/rbri20/current) [accessed 25 January 2019]

Example information/ research articles/papers in the most recent issue:

**Research:**

- **The House of Commons: a precedent for post-occupancy evaluation**

Schoenefeldt H (2019) '**The House of Commons: a precedent for post-occupancy evaluation**', *Building Research & Information*, 47(6), pp635-665, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2019.1547547](https://doi.org/10.1080/09613218.2019.1547547) [accessed 25 January 2019]

- **Life cycle assessment of a Danish office building designed for disassembly**

Malabi Eberhardt L C, Birgisdóttir H, and Birkved M (2019) '**Life cycle assessment of a Danish office building designed for disassembly**', *Building Research & Information*, 47(6), pp666-680, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1517458](https://doi.org/10.1080/09613218.2018.1517458) [accessed 25 January 2019]

- **Communicating environmental information: rethinking options for construction products**

Ströbele B, and Lützkendorf T (2019) '**Communicating environmental information: rethinking options for construction products**', *Building Research & Information*, 47(6), pp681-696, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1521191](https://doi.org/10.1080/09613218.2018.1521191) [accessed 25 January 2019]

- **Stochastic Petri-net models to predict the degradation of ceramic claddings**

Ferreira C, Canhoto Neves L [et al.] (2019) '**Stochastic Petri-net models to predict the degradation of ceramic claddings**', *Building Research & Information*, 47(6), pp697-715, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1501873](https://doi.org/10.1080/09613218.2018.1501873) [accessed 25 January 2019]

- **A critical analysis of research of a mass-housing programme**

Kowaltowski D C C K, Muianga E A D M [et al] '**A critical analysis of research of a mass-housing programme**', *Building Research & Information*, 47(6), pp716-733, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1458551](https://doi.org/10.1080/09613218.2018.1458551) [accessed 25 January 2019]

**Information**

- **Optimal spaces for those living with dementia: principles and evidence**

Barrett P, Sharma M, and Zeisel J (2019) '**Optimal spaces for those living with dementia: principles and evidence**', *Building Research & Information*, 47(6), pp734-746, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1489473](https://doi.org/10.1080/09613218.2018.1489473) [accessed 25 January 2019]

- **Healing built-environment effects on health outcomes: environment-occupant-health framework**

Zhang Y, Tzortzopoulos P, and Kagioglou M (2019) '**Healing built-environment effects on health outcomes: environment-occupant-health framework**', *Building Research & Information*, 47(6), pp747-766, DOI: [10.1080/09613218.2017.1411130](https://doi.org/10.1080/09613218.2017.1411130) [accessed 25 January 2019]

- **Policy implications for the performance gap of low-carbon building technologies**

McElroy D J, and Rosenow J (2019) '**Policy implications for the performance gap of low-carbon building technologies**', *Building Research & Information*, 47(6), pp611-623, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1469285](https://doi.org/10.1080/09613218.2018.1469285) [accessed 25 January 2019]

- **Conceptual approaches to wellbeing in buildings: a scoping review**

Hanc M, McAndrew C, and Ucci M (2019) '**Conceptual approaches to wellbeing in buildings: a scoping review**', *Building Research & Information*, 47(6), pp767-783, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1513695](https://doi.org/10.1080/09613218.2018.1513695) [accessed 25 January 2019]

**Please note:** that this journal can be accessed (IN FULL) via the **VLE e-Library**, and by logging into **Athens – Section 2**, and by selecting **Taylor and Francis Online** via the **Resources** tab.

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## Journal of Property Research

**3. Journal of Property Research** welcomes original papers on any area of real estate investment and development. These may be theoretical, empirical, case studies or critical literature surveys.

There are two major areas of focus:

- Property investment and finance. This covers topics such as the characteristics of property as an investment class, forecasting of markets and property portfolio construction. Much of this research will be an application to property of techniques developed in other investment markets.
- Land development. This covers a wide range of issues surrounding the development and redevelopment of property. The focus may be financial, economic or environmental; urban or rural; public or private sector.

Taylor and Francis, *Journal of Property Research* [online]. Available at: [www.tandfonline.com/toc/rjpr20/current](http://www.tandfonline.com/toc/rjpr20/current) [accessed 25 January 2019]

Example **Latest articles**/papers in the most recent issue include:

- **Asset pricing, spatial linkages and contagion in real estate stocks**

Milcheva S, and Zhu B (2018) '**Asset pricing, spatial linkages and contagion in real estate stocks**', *Journal of Property Research*, 35(4), pp271-295, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09599916.2018.1485725](https://doi.org/10.1080/09599916.2018.1485725) [accessed 25 January 2019]

- **Gender diversity and financial performance: evidence from US REITs**

Schrand L, Ascherl C, and Schaefer W (2018) '**Gender diversity and financial performance: evidence from US REITs**', *Journal of Property Research*, 35(4), pp296-320, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09599916.2018.1549587](https://doi.org/10.1080/09599916.2018.1549587) [accessed 25 January 2019]

- **House prices and proximity to kindergarten – costs of distance and external effects?**

Theisen T, and Emblem A W (2018) **'House prices and proximity to kindergarten – costs of distance and external effects?'**, *Journal of Property Research*, 35(4), pp321-343, London: Taylor and Francis Online, DOI: [10.1080/09599916.2018.1513057](https://doi.org/10.1080/09599916.2018.1513057) [accessed 25 January 2019]

- **News-based sentiment analysis in real estate: a machine learning approach**

Hausler J, Ruscheinsky J, and Lang M (2018) **'News-based sentiment analysis in real estate: a machine learning approach'**, *Journal of Property Research*, 35(4), pp344-371, London: Taylor and Francis Online, DOI: [10.1080/09599916.2018.1551923](https://doi.org/10.1080/09599916.2018.1551923) [accessed 25 January 2019]

**Please note:** that this journal can be accessed (IN FULL) via the **VLE e-Library login**, or via section 2 - **Athens gateway to eLibrary resources**, and by selecting **Taylor and Francis Online** via the **Resources** tab.

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## Henry Stewart Publications



**Please note:** that the below-mentioned journals can be accessed (IN FULL) via the **VLE e-Library**, and by logging into **Athens – Section 2**, and by selecting **Ingenta Connect** via the **Resources** tab incl. following journals incl.

- Applied Marketing Analytics
- **Corporate Real Estate Journal**
- Cyber Security: A Peer-Reviewed Journal
- Journal of Airport Management
- Journal of Brand Strategy
- **Journal of Building Survey, Appraisal and Valuation**
- Journal of Business Continuity & Emergency Planning
- Journal of Cultural Marketing Strategy
- [Journal of Data Protection & Privacy](#)
- Journal of Digital & Social Media Marketing
- Journal of Digital Banking
- Journal of Digital Media Management
- **Journal of Education Advancement & Marketing**
- Journal of Financial Compliance
- Journal of Payments Strategy & Systems
- Journal of Risk Management in Financial Institutions
- Journal of Securities Operations & Custody
- **Journal of Supply Chain Management, Logistics and Procurement**
- **Journal of Urban Regeneration and Renewal**
- Management in Healthcare: A Peer-Reviewed Journal

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## e-Journal Review Archive

When I started my role as the UCEM Information Governance Manager, I catalogued over **2000** e-Journal titles onto the A-Z Directory (section 3 of the VLE e-Library) and accessed via Athens.

Whilst cataloguing I was wondering how many of these e-Journals are actually being used within 'Recommended Reading' or 'Study Material' development by Tutors? Therefore, in each monthly issue of *Knowledge Foundations* I will be highlighting a few e-Journals that are available and accessed through the UCEM Athens gateway as a current awareness service.

**Please Note:** the below e-Journals are available in Full-Text copies

The following journals have been reviewed thus far, i.e.

<b>A</b>	Accounting Education (JAI)	<b>F</b>	'Foresight', an international bi-monthly journal concerned with the study of the future
<b>B</b>	Building Research and Information	<b>H</b>	International Journal of <b>Housing Markets and Analysis</b>
	Business and Management in Higher Education (BMHE)	<b>I</b>	Internet Research
	Business Economics		Interactive Technology and Smart Education
	Journal of Economic Studies	<b>L</b>	Landlord and Tenant Review
<b>C</b>	Campus-Wide Information Systems		International Journal of <b>Law and Management</b>
	Construction Management & Economics		International Journal of <b>Law in the Built Environment</b>
	Construction Innovation: Information, Process, Management		International Journal of <b>Law and Management</b>
	Construction Law Journal and Construction Newsletter	<b>M</b>	<b>Journal of Management and Sustainability</b>
	Construction Management and Economics		Management Research Review
	Construction Newsletter		International <b>Marketing Review</b>
	Journal of <b>Construction Research</b>	<b>O</b>	Journal of <b>Online Learning and Teaching (JOLT)</b>
<b>D</b>	Development and Learning in Organisations		<b>Open Praxis</b> , a peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education.
	International Journal of <b>Disaster Resilience in the Built Environment</b>		International Journal of <b>Organisational Analysis</b>
	Disaster Prevention and Management	<b>P</b>	Journal of <b>Planning and Environmental Law</b>
<b>E</b>	Oxford Bulletin of <b>Economics and Statistics</b>		Practice-based Learning

	Journal of <b>Economic Education</b>		Journal of <b>Property Investment and Finance</b> (Previously published as: Journal of Property Valuation and Investment)
	Journal of <b>Economic Literature</b>		Property Law Bulletin
	Education + Training		Property Management
	Journal for <b>Education in the Built Environment</b> , The		Journal of <b>Property Research</b>
	International Journal of <b>Educational Management</b>	<b>Q</b>	Quality Assurance in Education
	<b>Energy, Sustainability and Society</b>	<b>R</b>	Real Estate Economics
	Enhancing Learning in the Social Sciences (EliSS)		Journal of <b>Real Estate Portfolio Management</b>
	Engineering, Construction and Architectural Management		Journal of <b>Real Estate Research</b>
	Engineering Education		Reference Services Review
<b>F</b>	Facilities		Journal of <b>Research in Interactive Marketing</b>
	Journal of <b>Facilities Management</b>	<b>S</b>	<b>Smart and Sustainable Built Environment</b>
	Financial Accountability and Management		Structural Survey
	Journal of <b>Financial Management of Property and Construction</b>		<b>Sustainability</b>
	Financial Practice and Education		<b>Journal of Sustainable Development</b>
<b>Special issues:</b>			
	Property and Construction		Online Learning [01/14]
	International Focus [07/13]		Higher Education Academy Online [03/14]
	Higher Education [08/13]		Environment [03/14]
	Law [09/13]		Open Access and Online Learning [04/14]
	Research [10/13]		Business and Management Education in Higher Education [05/14]
	Economics [11/13]		Finance, Financial Management and Accounting [06/14]
	<b>Sustainability [12/13]</b>		Research and Innovation in open, distance and flexible education [07/14], [03/15]

**Lucy's searching top tips** – The reason why I am listing the topics covered and some of the journals reviewed each month is to provide a quick reference list and tool. Should you wish to access journals relating to a specialist area or journal, you i) access the latest issue of the *Knowledge Foundations* (available via the VLE e-Library and under section 6 – UCEM Published Material), ii) Have a quick browse down the list and identify your specialist journal or focus area. iii) In the case of Special issues, note the month that covered that topic, iv) go back to the VLE e-Library page and v) download the appropriate monthly *Knowledge Foundations* (formerly e-bulletin) which specialises in that subject area. ☺

To access the Directory of e-Journals, visit the VLE e-Library and scroll down to Section 3. Note: to access these journals in full online, you will need to log-in to Athens.

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## e-Book Review

The **UCEM VLE e-Library** is currently building on its' e-Book collection, available through **Athens** and by clicking on **DawsonEra** (listed within **the Resources** section). It is hoped that over time, UCEM will provide greater access to e-Books over hard-copy versions to provide the students with greater flexibility and access to a wide range of publications.

Often books may have an excellent chapter covering a topic you wish to discuss, and this can prove expensive in purchasing and posting, when only a small section of the book is relevant. Therefore, drawing attention to an e-Book via the e-Library and recommending they read a particular chapter is much more efficient and effective and allows UCEM to build their library as well as providing a wider range of publications for students to access and Tutors to use in supplementing their Teaching and Learning Materials.

**Please note:** By visiting the VLE e-Library and the various digital subscriptions that UCEM currently holds, students and tutors can gain access to a wealth of additional online material and catalogues incl. a range of reference e-books available within the construction and real estate sectors. For example, **IHS Information Services** and the **Construction Information Service** (accessible via Athens) holds a vast array of eBooks. You can also access **RICS** published material incl. eBooks via **ISURV** (accessed via Section 5 of the VLE e-Library).

Six books that are currently available are as follows:

1. The Battle for Open: How openness won and why it doesn't feel like victory
2. The new landscape of mobile learning: Redesigning education in an app-based world
3. Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education
4. Studying at a Distance
5. Rethinking Pedagogy for a Digital Age, 2nd edition
6. ADDING SOME TEC-VARIETY: 100+ Activities for Motivating and Retaining Learners Online

The first and sixth book, as well as the second 'book review' mentioned above are freely available online. However, the other three have been purchased by UCEM and are available, as e-Books, within the VLE e-Library and via Athens and Dawson Books. Once you have accessed DawsonEra, if you click on '**eBook Catalogue**' within the top toolbar, this contains UCEM purchased eBooks. Alternatively, you can search for the title within the Advanced Search engine.

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### 1. The Battle for Open: How openness won and why it doesn't feel like victory.

Weller, M. (2014). *The Battle for Open: How openness won and why it doesn't feel like victory* [e-book]. London: Ubiquity Press. Available at: <http://dx.doi.org/10.5334/bam> [accessed 18 January 2019]

Dominguez, D. (2015). Book review of The Battle for Open. *Open Praxis*, 7(2), 191-193. doi:10.5944/openpraxis.7.2.208

**ISSN:** 2304-070X, International Council for Open and Distance Education (ICDE)

Has the openness movement won the battle to transform itself into a mainstream phenomenon in higher education? If the answer is yes, does this mean that the disputes with other educational technological solutions, restricted, have definitely ended? Or rather is it only the beginning of a long confrontation to take centre stage in a digital ecosystem that is increasingly more nuanced, where the number of actors keeps growing and the limits on what is open is ever more diffuse?

In this new book, the author Martin Weller attempts to find answers to these questions. To do so, he introduces a group of quite varied subjects on evolution and the current state of higher education. As such, his contribution turns into an authentic manual for everyone who has an interest in the digitization of education.

Keywords: Open access; open education; OER.

## **2. The new landscape of mobile learning: Redesigning education in an app-based world -**

Miller, C., & Doering, A., (Eds.). (2014). *The new landscape of mobile learning: Redesigning education in an app-based world* (1st ed.). New York, NY: Routledge

Hetrick, T. (2015). Book review of *The new landscape of mobile learning: Redesigning education in an app-based world*. *Open Praxis*, 7(1), 113-115. doi:10.5944/openpraxis.7.1.178. ISSN: 2304-070X, International Council for Open and Distance Education (ICDE)

This is a book review on *The new landscape of mobile learning: Redesigning education in an app-based world*, by editors Charles Miller and Aaron Doering. This is an edited book, but one for which the editors sought out specific authors to write about their experiences and expertise on mobile learning. One of Miller and Doering's goals is to promote greater thinking about mobile learning through the understanding that learning is a complex process built from pedagogical foundations that integrate social interactions with technology. The editors argue that a fundamental aspect to mobile learning is mobility, which is the ability to freely move about and collaborate in an authentic environment in which learners gain insight and construct knowledge. The authors try to address problems in mobile learning and put forth solutions, but this also highlights the fragmented problems of mobile learning as the book in itself is fragmented. Instead of treating mobile learning as its own system or field, it becomes evident that one should be describing mobile learning as mobile integration and explores how to use mobility in the everyday learning context. From the perspective of mobile integration, this book is very practical as the authors did an outstanding job of providing information about the steps of integrating mobile devices into specific areas to assist or augment learning.

## **3. Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education**

By Moore, C., (c2017). *Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education*. IGI Global

The integration of technology has become an integral part of the educational environment. By developing new methods of online learning, students can be further aided in reaching goals and effectively solving problems. *The Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education* is an authoritative reference source for the latest scholarly research on the implementation of instructional strategies, tools, and innovations in online learning environments. Featuring extensive coverage across a range of relevant perspectives and topics, such as social constructivism, collaborative learning and projects, and virtual worlds, this publication is ideally designed for academicians, practitioners, and researchers seeking current research on best methods to effectively incorporate technology into the learning environment.

## **4. Studying at a Distance -**

By Talbot, C., (01/08/2010), Publisher: Open University Press

e-ISBN-13: 9780335238057

This essential guide provides practical help and support for those who have not previously studied at a distance and is ideal for students returning to study after a break. It covers fundamental issues such as motivation, goal setting, time management and coping strategies. Additional coverage in this third edition includes: specific information on the use of new technologies in distance learning; detailed coverage of referencing, citation and plagiarism; description of using mind maps and other techniques for planning and writing essays or reports; support for disabled students, particularly those with dyslexia; and, an expanded further resources section.

## 5. Rethinking Pedagogy for a Digital Age –

Edited by Beetham, H., & Sharpe, R., Publisher: Routledge

e-ISBN-13: 9780203078952

Through a critical Discussion of the issues surrounding the design, sharing and reuse of learning activities, the second edition of *'Rethinking Pedagogy for a Digital Age'* examines a wide range of perspectives on effectively designing and delivering learning activities to ensure that future development is pedagogically sound, learner-focused, and accessible.

Keywords: Education; Pedagogy; e-Learning

## 6. ADDING SOME TEC-VARIETY: 100+ Activities for Motivating and Retaining Learners Online

*Adding Some TEC-VARIETY* by Curtis J. Bonk and Elaine Khoo

As this book states, "Motivation is central to all things human" and Online teaching and learning are no different.

The authors of this FREE ONLINE BOOK propose the TEC-VARIETY framework as a solution to the lack of meaningful engagement. It can shift learners from nearly comatose states to actively engaged ones. *Adding Some TEC-VARIETY* helps instructors focus on how to motivate online learners and increase learner retention. It also is a comprehensive, one-stop toolkit for online instructors to inspire learners and renew their own passion for teaching. Using 10 theoretically driven and proven motivational principles, TEC-VARIETY offers over 100 practical yet innovative ideas based on decades of author experience teaching in a variety of educational settings.

Source: ***Adding Some TEC-VARIETY*** by Curtis J. Bonk and Elaine Khoo [online]. Available at: <http://tec-variety.com/> [accessed 25 January 2019]

**Please note:** The authors have made an online version of this work available under a Creative Commons Attribution-Non-commercial-Share Alike 3.0 License; for details, please see <http://creativecommons.org/licenses/by-nc-sa/3.0/us/> [accessed 16 January 2019]. The e-book PDF can be accessed through the book homepage [online]. Available at: <http://tec-variety.com> and <http://tec-variety.com/freestuff.php> [accessed 25 January 2019]

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## The Directory of Open Access Books ([DOAB](#)) –

The primary aim of DOAB is to increase discoverability of Open Access books. Academic publishers are invited to provide metadata of their Open Access books to DOAB. Metadata will be harvestable in order to maximize dissemination, visibility and impact. Aggregators can integrate the records in their commercial services and libraries can integrate the directory into their online catalogues, helping scholars and students to discover the books. The directory is open to all publishers who publish academic, peer reviewed books in Open Access and should contain as many books as possible, provided that these publications are in Open Access and meet academic standards.

### Some key DOAB facts (as of 25/01/2019):

- **15,533** Academic peer-reviewed books from
- **306** publishers

The Directory of Open Access Books (DOAB) [www.doabooks.org/doab](http://www.doabooks.org/doab) [accessed 25 January 2019]

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## Latest book and journal titles

### Latest book titles from

**Elsevier** is a world-leading provider of information solutions that help you make better decisions, deliver better care, and sometimes make ground-breaking discoveries in science, health, and technology.

Built Environment including Architecture, Building and Construction, and Property and Real Estate [online].

Further information is available at: [www.elsevier.com/](http://www.elsevier.com/) [accessed 25 January 2019]

**LawTrove** [online]. Further information is available at: [www.oxfordlawtrove.com/](http://www.oxfordlawtrove.com/) [accessed 25 January 2019]

- Oxford University Press (OUP) is a leading publisher of legal education materials, producing a broader and deeper range than any other publishers. **Law Trove** takes that award content and makes it available online, to suit your way of working. Studying law is about discovery; finding the links, examining the detail, and unravelling the connections make it a complex and fascinating subject. **Law Trove** facilitates a rounded and complete study of law. Its powerful search facility means you can delve deeper into your life, navigate more easily, and connect with additional resources in your own institution's library collection. **N.B.** There is a section where you can search the catalogue and 'access free content / Open Access material'.

**Palgrave Macmillan** - From award-winning research which changes the world to textbooks and study guides which educate and inspire, Palgrave Macmillan publish across the humanities, social sciences and business for academics, students, professionals and librarians worldwide. Palgrave Macmillan [online]. Further information is available at: [www.palgrave.com/gb/](http://www.palgrave.com/gb/) [accessed 25 January 2019]

**Taylor & Francis/Routledge** – T&F (an Informa business) is a world famous name in academic and professional books, journals and online resources relating largely to the humanities, social sciences, the Built Environment and Sustainability.

Visit Taylor & Francis online @ [www.tandfonline.com](http://www.tandfonline.com) [accessed 25 January 2019]

**Taylor & Francis Open and Routledge Open** - Taylor & Francis and Routledge currently publish a number of pure open access journals, with no subscription content. The articles in these journals receive both rigorous peer review and expedited online publication [online] and available @ [www.tandfonline.com/openaccess](http://www.tandfonline.com/openaccess) [accessed 25 January 2019]

Latest info: Property and Real Estate catalogue [online] and available at: [www.routledge.com/collections/4812](http://www.routledge.com/collections/4812) [accessed 25 January 2019]

Other subject categories incl.

- Architecture - [www.routledge.com/architecture/](http://www.routledge.com/architecture/)
- Building and Construction - [www.routledge.com/buildingconstruction](http://www.routledge.com/buildingconstruction)
- Built Environment - [www.routledge.com/builtenvironment](http://www.routledge.com/builtenvironment)
- Planning and Urban Design - [www.routledge.com/planning/](http://www.routledge.com/planning/)
- Research Methods - [www.routledge.com/research-methods](http://www.routledge.com/research-methods)

[websites correct as at 25 January 2019]

**The Routledge Sustainability Hub** - An innovative Knowledge Centre for the global sustainability community, this Hub offers a wide range of resources for everyone – whether you are a teacher, a student, a professional or a citizen of the earth curious to discover more about the many facets of sustainability. Further information available at: [www.routledgetextbooks.com/textbooks/sustainability](http://www.routledgetextbooks.com/textbooks/sustainability) [accessed 25 January 2019]

**Wiley** is the international scientific, technical, medical, and scholarly publishing business of John Wiley & Sons, with strengths in every major academic and professional field and partnerships with many of the world's leading societies. For more information, please visit [www.wiley.com](http://www.wiley.com) [accessed 25 January 2019] and <http://eu.wiley.com/WileyCDA/> [accessed 25 January 2019].

'Wiley' Online Library hosts the world's broadest and deepest multidisciplinary collection of online resources covering life, health and physical sciences, social science, and the humanities. It delivers seamless integrated access to over 6 million articles from over 1500 journals, over 16,000 online books, and hundreds of reference works, laboratory protocols and databases. Further information is available online at:

<http://onlinelibrary.wiley.com/> [accessed 25 January 2019]

**Wiley Open Access** [online]. Further information is available at: <http://olabout.wiley.com/WileyCDA/Section/id-406071.html> [accessed 25 January 2019]

- Business and Management [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000028> [accessed 25 January 2019]
- Economics [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000047> [accessed 25 January 2019]
- Law [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000076> [accessed 25 January 2019]
- Civil Engineering and Construction [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000034> [accessed 25 January 2019]

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## Information Governance incl. © Guidance and Data Protection:

“It is important to remember that Copyright material in digital form is protected in exactly the same way as Copyright material in any other format. For example, text and images on a website are protected by copyright in the same way as printed material.

Please note: if there is something you really want to use for learning materials and someone else owns the copyright ... permission must be sought!

The copyright owner may wish to charge you, but often they just appreciate you asking them if they are happy for you to acknowledge their work and inform them of how the information will be used and who it will be circulated to”.

Source: Salmon, Prof. G., (2013), *E-tivities*, London, Routledge.

### Copyright

#### The Copyright Licensing Agency Ltd (CLA)

The CLA are a licensing body as defined by the Copyright, Designs and Patents Act 1988 c.48 (as amended) [“CDPA”].

The CLA licence organisations to copy and re-use extracts from print and digital publications on behalf of the copyright owners – authors, publishers and visual artists. By ‘copying’ the CLA means photocopying, scanning, and re-use of content from magazines, books, journals, electronic and online publications, as well as press cuttings or documents supplied by a licensed third party.

Having a CLA licence helps to reduce the risk and potential cost of copyright infringement. This requirement applies to any organisation in the business, education, public or charitable sectors.

The Copyright Licensing Agency (CLA) - [www.cla.co.uk](http://www.cla.co.uk) [accessed 25 January 2019]

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#### CLA [Title search tool](#)

The **CLA Title Search** is an online search tool that lets you quickly find out what you can copy under your organisation’s CLA licence.

Whether you’d like to photocopy and distribute an article to colleagues or upload a report to an intranet or VLE, the CLA Title Search simplifies the steps required to ensure compliance.

UCEM has a **CLA 'Independent Higher Education Photocopying and Scanning Licence'**

**CLA Higher Education, Check Permissions** @ [www.cla.co.uk/higher-education-licence](http://www.cla.co.uk/higher-education-licence) [accessed 25 January 2019]

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## **Further guidance on Copyright and Digital Copyright incl.**

- What is copyright? @ [www.cla.co.uk/what-is-copyright](http://www.cla.co.uk/what-is-copyright) [accessed 16 January 2019]
- When does copyright arise?
- What does copyright protect?
- Who owns copyright?
- Joint ownership of copyright
- What rights does a copyright owner have?
- How long does copyright last?
- Copyright infringement
- Remedies for copyright infringement
- Copyright exceptions
- Obtaining clearance to use copyright material
- CLA and copyright licences

Related organisations and links @ [www.cla.co.uk/related-organisations](http://www.cla.co.uk/related-organisations), and [www.cla.co.uk/](http://www.cla.co.uk/) [accessed 25 January 2019]

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## **5 Ways to find images for your website**

The author of this article highlights the point that finding good images online is fairly easy but finding images that are licensed for reuse can be hard.

It is often difficult to know when it's ok to reuse an image that has been published online and when it's not. The internet may be a global network, but each country has different copyright laws and there are not simple best practice rules applicable to everyone.

Within this blog, the author takes a look at a best practice example of online image attribution, some of the problems that face anyone trying to work out if they can reuse an image online and five ways to find images licensed for reuse, including:

- The Creative Commons search tool
- Museums, Libraries and Archives
- Getty images
- Gratisography
- Taking your own photo!

Patrick, E., Online Information Manager at CILIP, the Chartered Institute for Library and Information Professionals, 18<sup>th</sup> September 2014, '*5 ways to find images for your website*' [online blog].

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## **Legal 101 – Know your copyrights from wrongs**

Copyright is an issue rarely discussed in construction and development projects, but one that can have far-reaching implications if the relevant permissions are not properly put in place. A Copyright Owner has the right to prevent others from carrying out numerous acts, including copying, adapting, or issuing copies to the public.

**What is a copyright work?** Any project that involves the creation of new “works” such as research, plans, photographs, diagrams, models, plans or charts – as well as the building itself – will need to consider who owns the copyright in those works.

**Who owns the copyright?** The first owner of copyright in any work is the author or, if any employee, his or her employer. More than one person can be an author, whether they have worked together or separately. It is also possible for more than one person to own the copyright.

**Assignment or Licence?** Although it is possible to agree to transfer – or assign – the ownership of copyright, this is rare in the construction and development industry. Consequently, architects, planners and surveyors will each own copyright in the works they produce and have the power to prevent others from using their work at all, or for any purposes other than expressly permitted, as well as controlling permitted uses.

**What should a licence cover?** Permission to use a copyright work is granted in a licence. This can either be a separate document or included as part of a more wide-ranging contract. The licence sets out exactly who can do what with the relevant copyright work, so it is important that the scope is wide enough to cover everything that may be needed for the project, and, subsequently, permission is given to all people or entities who will need it.

Source: Wheeler, P., partner, Collyer Bristow, March 2015, RICS MODUS, *Legal 101 – Know your copyrights from wrongs*, p47.

Royal Institution of Chartered Surveyors (RICS), *Modus*, March 2015 – The Africa issue [online], RICS, Knowledge, Journals. Available at: [www.rics.org/uk/news-insight/publications/modus/](http://www.rics.org/uk/news-insight/publications/modus/) [accessed 25 January 2019]

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## **Latest Copyright News:**

### **EU Copyright Vote**

On 12 September 2018, MEPs approved a measure updating EU copyright law by a 438-226 margin. The parliament had previously rejected plans to launch an immediate ‘trilogue’ with the EC on text as approved by the lead Legal Affairs Committee (JURI) in June (see publication date). It was therefore subject to full debate at the September plenary held earlier in the month.

Whilst much of the public debate surrounded Articles 11 and 13, several other articles in the proposal are of interest to publishers. These include Article 3 which suggests a copyright exception for text and data mining (TDM) for the purposes of scientific research and Article 4, which makes provisions for digital licensing of educational content. There are also provisions that allow writers to get a share of copyright-related remuneration obtained by their publishing house. The directive also strengthens the negotiating rights of authors and performers, by enabling them to “claim” additional remuneration from the party exploiting their rights when the remuneration originally agreed is “disproportionately” low compared to the benefits derived. Debate and discussion between Member States (including the UK for now) is ongoing, although proponents of the Directive will be hoping that the negotiations can be concluded in good time ahead of the EU Parliamentary elections in the Spring (see publication date).

This and further information is available at:

PLS – Publishers’ Licensing Services (2018) ‘PLS Policy Update December 2018’, London: Publishers’ Licensing Service

#### **Related Links:**

##### **EU votes for copyright law that would make internet a ‘tool for control’**

Rankin J (2018) ‘EU votes for copyright law that would make internet a ‘tool for control’, *The Guardian*, Internet [online], 20 June. Available at: [www.theguardian.com/technology/2018/jun/20/eu-votes-for-copyright-law-that-would-make-internet-a-tool-for-control](http://www.theguardian.com/technology/2018/jun/20/eu-votes-for-copyright-law-that-would-make-internet-a-tool-for-control) [accessed 25 January 2019]

From the above-mentioned link you can also gain further information about **Internet; Intellectual property; European commission; Europe; Small business; European Union** and **news**

Find the **latest copyright news** from **WIRED** incl. Finley K (2018) ‘Europe’s New Copyright Law Could Change The Web WorldWide’ [WIRED > Home > Business] WIRED [online]. Available at: [www.wired.com/story/europes-copyright-law-could-change-the-web/](http://www.wired.com/story/europes-copyright-law-could-change-the-web/) [accessed 25 January 2019]

The Guardian Online (2018) European Commission [online]. Available at:

[www.theguardian.com/world/european-commission](http://www.theguardian.com/world/european-commission) [accessed 25 January 2019]

The Guardian Online (2018) Europe [online]. Available at: <https://www.theguardian.com/world/europe-news> [accessed 25 January 2019]

Malik K (2018) 'A fairer deal on web copyright doesn't need the boomer boots from Brussels', *The Guardian*, Internet, Opinion [online], 8 April. Available at: [www.theguardian.com/commentisfree/2018/apr/08/fairer-deal-on-web-copyright-eu-free-speech-open-access](http://www.theguardian.com/commentisfree/2018/apr/08/fairer-deal-on-web-copyright-eu-free-speech-open-access) [accessed 25 January 2019]

- Free speech and open access are at risk from EU plans to reform legislation for the digital age.

Electronic Frontier Foundation website [online]. Available at: [www.eff.org/](http://www.eff.org/) [accessed 25 January 2019]

**Lucy's top searching tips** – If you are searching for i.e. 'Joint letter to European politicians on Article 13 of Directive on Copyright in the Digital Single Market' [online]. Available at:

[www.eff.org/search/site/article%2013%20of%20the%20EU%20copyright%20Directive](http://www.eff.org/search/site/article%2013%20of%20the%20EU%20copyright%20Directive) [accessed 25 January 2019], ensure you reference from a public domain 'landing page'

i.e. Electronic Frontier Foundation (2018) 'Joint letter to European politicians on Article 13 of Directive on Copyright in the Digital Single Market' [online]. Available at: [www.eff.org/document/joint-letter-european-politicians-article-13-directive-copyright-digital-single-market](http://www.eff.org/document/joint-letter-european-politicians-article-13-directive-copyright-digital-single-market) [accessed 25 January 2019],

rather than to the holding page where the PDF sits in the background. The reasoning for this is that (i) holding page links can change, (ii) documents can be moved around and (iii) in some cases where copyright permission has been sought and agreed for organisations to upload PDF documents, it is good academic practice to ensure that you do not link direct to the PDF itself, and locate either the original source, or link to a public domain website where T&Cs and copyright can be reviewed. Also, by referencing items correctly and using search facilities as identified above, if hyperlinks do not work, you will have sufficient information (within the reference) to hopefully be able to source the item elsewhere.

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## **Data Protection**

### **Get on track with the new Data Protection rules**

As of 25 May 2018, the EU General Data Protection Regulation (GDPR) replaced the EU's Data Protection Directive. This means, that a single set of data protection rules applies to all companies operating in the EU, wherever they are based.

**Get introduced to GDPR** – This is the most important change to data privacy regulation in 20 years across Europe.

**Where to find guidance** - Gain access to a variety of resources available which provide useful information on the changes.

**GDPR factsheets** – Factsheets providing useful and practical case studies, focusing on specific sectors. These factsheets (accessed via the source link provided below) have been developed by DLA Piper in collaboration with RICS to provide useful and practical case studies, focusing on specific sectors, incl.

- **Building surveying; Construction cost management; Property agency; Property management; and Property valuation.**

**Penalties** – Organisations in breach of GDPR can be fined up to 4% of annual global turnover or €20 million (whichever is greater). This is the maximum fine that can be imposed for the most serious infringements.

**Consent** – Companies will no longer be able to use long illegible **terms and conditions** full of legalese, as the request for consent must be given in an intelligible and easily accessible form, with the purpose for data processing attached to that consent (EUGDPR.ORG Portal, 2018).

**Roles: 'Controller' or 'Processor'** In considering who GDPR applies to, the terms 'controllers' and 'processors' are used. To provide a simple definition:

- Controllers determine the purpose and means of processing personal data.
- Processors are responsible for processing personal data on behalf of a controller.

As a processor, GDPR places specific legal obligations to main records of personal data and processing activities. The processor will have legal liability and be responsible for a breach.

For Controllers, GDPR places further obligations on you to ensure your **contracts** with processors comply with the GDPR.

## Will GDPR matter for organisations in the UK after Brexit?

For companies in the UK if you process data about individuals in the context of selling goods or services to citizens in other EU countries then you will need to comply with the GDPR, irrespective as to whether or not the UK retains the GDPR post-Brexit.

Source: RICS (2018), 'New HMO rules come into effect in England on 1 October 2018' [RICS > Get on track with the new Data Protection rules] RICS [online]. Available at: [www.rics.org/uk/footer/gdpr/](http://www.rics.org/uk/footer/gdpr/) [accessed 16 January 2019].

### Related Links:

Following on from the earlier comment relating to GDPR in the UK after Brexit, on 13<sup>th</sup> September 2018, the Department for Digital, Culture, Media & Sport published the following guidance @ GOV.UK

### Guidance: Data protection if there's no Brexit deal

GOV.UK, Department for Digital, Culture, Media and Sport (2018), 'Guidance: Data protection if there's no Brexit deal' [online], 13 September. Available at: [www.gov.uk/government/publications/data-protection-if-theres-no-brexit-deal/data-protection-if-theres-no-brexit-deal](http://www.gov.uk/government/publications/data-protection-if-theres-no-brexit-deal/data-protection-if-theres-no-brexit-deal) [accessed 25 January 2019]

### & other related links:

EUGDOR.org portal (2018) 'GDPR Key Changes' [online]. Available at: [www.eugdpr.org/key-changes.html](http://www.eugdpr.org/key-changes.html) [accessed 25 January 2019]

Designing Buildings.co.uk Wiki, (2018) 'Terms and Conditions' [online], last edited 12 July 2018. Further information is available at: [www.designingbuildings.co.uk/wiki/Terms\\_and\\_Conditions](http://www.designingbuildings.co.uk/wiki/Terms_and_Conditions) [accessed 25 January 2019]

Kirkup A (2018) 'General Data Protection Regulations (GDPR)', Institution of Civil Engineers (ICE), last edited 19 January 2018.

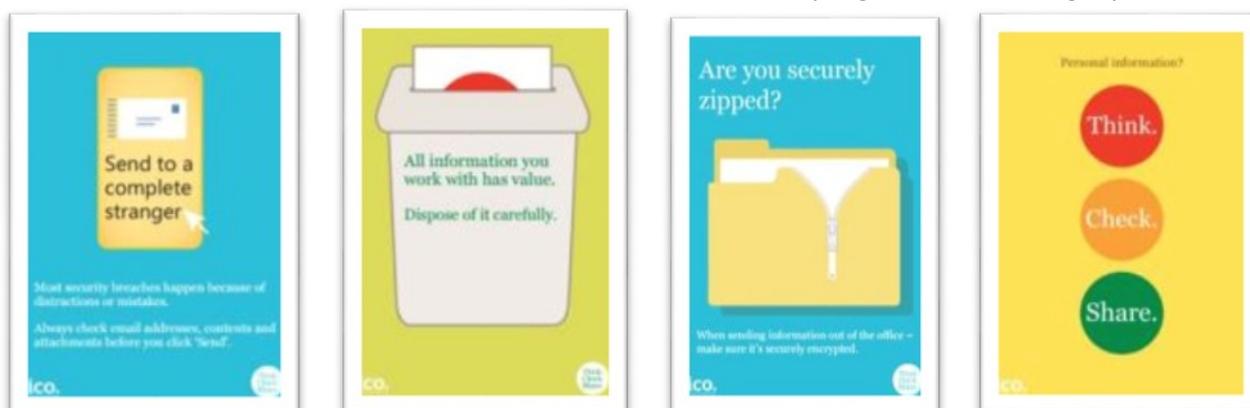
Designing Buildings.co.uk Wiki, (2018) 'General Data Protection Regulations (GDPR)' [online], last edited 11 May 2017. Further information is available at: [www.designingbuildings.co.uk/wiki/Home\\_and](http://www.designingbuildings.co.uk/wiki/Home_and) [www.designingbuildings.co.uk/wiki/General\\_Data\\_Protection\\_Regulations\\_\(GDPR\)](http://www.designingbuildings.co.uk/wiki/General_Data_Protection_Regulations_(GDPR)) [accessed 25 January 2019]

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## Further information, advice and guidance on the General Data Protection Regulation (GDPR)

- With new technologies constantly emerging and us finding ourselves moving further inform an ever more digital direction, our personal data, how it is used and who has access to it becomes a growing and global concern for all.

The General Data Protection Regulation (GDPR) is the first legislative change in recent years that will address these concerns, with a broad aim to invoke a cultural shift in the way organisations manager personal data.



**Source:** ICO [n.d.], Posters, stickers and e-learning [online]. Available at: <https://ico.org.uk/for-organisations/resources-and-support/posters-stickers-and-e-learning/> [accessed 25 January 2019]

Other useful Information, Advice and Guidance on Data Protection, GDPR and more can be found at the Information Commissioner's Office (ICO) including:

- Guides to the legislation incl. **Data Protection**; Freedom of information; Electronic communications and marketing; Environmental information; Spatial information; and Re-use of information
- In your sector covers – **Education**; Health; Small business; **Marketing**; Local government; Police, justice and surveillance; Charity; Finance, insurance and credit; Elected reps and political parties; and the media

#### **Resource and support covers -**

- **Getting ready for the GDPR checklist** – designed to help you get your house in order, ready for the new legislations. Includes getting to grips with new rights of individuals, handling subject access requests, consent, data breaches, and designating a data protection officer.

#### **Self-assess, training and promote incl. -**

- **Data protection self-assessment toolkit,**
- **Posters, stickers and e-learning** (incl. the above)
- **Training videos,**
- **Webinars,**
- **Health sector resources,** and
- **Personal information promise**

Information Commissioner's Office (ICO), *Resource and support* [online]. Available at: <https://ico.org.uk/for-organisations/resources-and-support/> [accessed 25 January 2019]

#### **Related Links:**

Information Commissioner's Office [n.d.] 'Advice service for small organisations' [online]. Available at: <https://ico.org.uk/global/contact-us/advice-service-for-small-organisations/> [accessed 25 January 2019]

Korn N (2018) '**GDPR: What you can do now?**' [online], Naomi Korn Copyright and Compliance blog, 1<sup>st</sup> April. Available at: <https://naomikorn.com/blog/> [accessed 25 January 2019]

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## **Data Protection Act 2018**

The Data Protection Act 2018 achieved Royal Assent on 23 May 2018. The Act implements provision relating to GDPR among other things. The Government has **published an overview** of the Act, information on **general processing of personal data**.

The Information Commissioner's Office (ICO) has been **granted new powers** to act swiftly when people's data has been breached and allow her to hold rogue companies to account. This includes being able to:

- Issue fines of up to £17 million or 4 per cent of global turnover for the most serious data breaches
- Demand access to an organisation's premises to carry out 'no notice' inspections without a warrant
- Request a court order to force someone to share information, with the prospect of criminal convictions when this is not followed.

The Government will shortly publish a consultation on exemptions to paying ICO fees to ensure the regulations remain appropriate in the new regime.

#### **Related Links:**

GOV.UK, Department for Digital, Culture, Media and Sport, Home Office, The Rt Hon Matt Hancock MP, and The Rt Hon Sajid Javid MP (2018), Guidance: 'Data Protection Act 2018 Overview' [online], Published 25 May 2018. Available at: [www.gov.uk/government/publications/data-protection-act-2018-overview](http://www.gov.uk/government/publications/data-protection-act-2018-overview) [accessed 25 January 2019]

GOV.UK, Department for Digital, Culture, Media and Sport, and Margot James MP (2018), News Story: '**Data laws made fit for the digital age**' [online]. Available at: [www.gov.uk/government/news/data-laws-made-fit-for-the-digital-age?utm\\_source=792e6351-26af-4550-abe1-](http://www.gov.uk/government/news/data-laws-made-fit-for-the-digital-age?utm_source=792e6351-26af-4550-abe1-)

[85b07a4a97a5&utm\\_medium=email&utm\\_campaign=govuk-notifications&utm\\_content=immediate](https://www.theheritagealliance.org.uk/heritage-update) [accessed 25 January 2019]. **Please note:** Further information is provided earlier in this e-bulletin.

Source: Heritage Update e-Bulletin [online], Issue **No 371**, 1 June 2018, The Heritage Alliance. Available at: [www.theheritagealliance.org.uk/heritage-update](http://www.theheritagealliance.org.uk/heritage-update) [accessed 25 January 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: [www.theheritagealliance.org.uk/update/](http://www.theheritagealliance.org.uk/update/) [accessed 25 January 2019]

BBC News, Technology (2018) 'Facebook faces £500,000 fine from UK data watchdog' [online], 11 July 2018. Further information is available at: [www.bbc.com/news/technology-44785151](http://www.bbc.com/news/technology-44785151) [accessed 25 January 2019]. **N.B.** From this above-mentioned web-link you can also gain further information about **Privacy; Facebook;** and **Facebook-Cambridge Analytica data scandal**

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## Useful online resources

### 1. Construction Information and Guidance available through the **HSE** -

Within the Health and Safety Executive (HSE) website, there is a wealth of information surrounding Construction.

#### Lucy's Top Searching Tips

By typing in '**Construction**' within the search engine at the top of the website @ [www.hse.gov.uk](http://www.hse.gov.uk) [accessed 25 January 2019] a vast array of 'subject fields' are identified incl.

**Construction:** Within the 'Construction' section of the HSE website, there is further information on – new to health and safety; safety topics; health topics; Construction Design and Management; Leadership and worker involvement toolkit; Migrant workers in construction; Worker engagement; current campaigns; Managing health risks (COHME); Construction FAQs; Construction news including news and updates about health and safety in the construction industry & Info net including RSS feeds and Construction e-bulletins to sign up to.

**Health and Safety in the Construction Industry** - [www.hse.gov.uk/construction/](http://www.hse.gov.uk/construction/)

**Health and Safety in Construction** - [www.hse.gov.uk/pubns/books/hsg150.htm](http://www.hse.gov.uk/pubns/books/hsg150.htm)

**HSE Publications: Free Leaflets – Construction** [www.hse.gov.uk/pubns/conindex.htm](http://www.hse.gov.uk/pubns/conindex.htm)

**Construction (Design and Management) Regulations 2015** - [www.hse.gov.uk/construction/cdm/2015/index.htm](http://www.hse.gov.uk/construction/cdm/2015/index.htm)

**Statistics – Industries** [www.hse.gov.uk/STATISTICS/industry/index.htm](http://www.hse.gov.uk/STATISTICS/industry/index.htm)

**Statistics - Construction Industry** [www.hse.gov.uk/STATISTICS/industry/construction/index.htm](http://www.hse.gov.uk/STATISTICS/industry/construction/index.htm)

**Fatal injury statistics, summary for 2017/18** [www.hse.gov.uk/statistics/fatals.htm](http://www.hse.gov.uk/statistics/fatals.htm)

**Latest quarterly fatal injury figures for 2017/18** [www.hse.gov.uk/statistics/fatalquarterly.htm](http://www.hse.gov.uk/statistics/fatalquarterly.htm)

[N.B. Websites accessed 25 January 2019]

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### 2. **Revo** – [Retail. Property. Community.](#)

(formerly British Council of Shopping Centres (BCSC))

BCSC (British Council of Shopping Centres) was the professional body for retail property – an authoritative voice for UK retail-led regeneration and for the management of and investment in shopping places. However, BCSC is changing and is now Revo.

Revo supports the people and businesses involved in the diverse world of retail property and placemaking to thrive and prosper – energizing and driving progress for our community. As stated within their new website:

**A broader remit** – Revo are now embracing all kinds of retail property and all kinds of stakeholders. This diversity makes Revo uniquely placed to champion real improvements and positive change for this sector

**Working together** – Revo intend to harness the collective experience, as well as the influence and resources of their network to challenge and shape this industry for the future

**The influencers** – Revo are there to help shape the future of the retail property and placemaking industry. They will be engaging with even more senior figures in key government departments to raise awareness of Revo locally and nationally.

**The network** – Who you know is just as important as what you know. Revo members have a broad base, with specialisms and experience of all kinds. Revo aim to create more relevant and accessible business and career development opportunities and make sure the industry has the right people, with the right skills.

**The benchmark** – Revo sets standards, recognizes achievement and sparks ideas. A new educational programme will meet the needs of industry professionals throughout their careers, and there will be a renewed focus on apprenticeships. Revo are also expanding their Awards Programme to better reflect the diversity of the industry.

**The trend spotters and thought leaders** – Revo intends to stay ahead of the curve, prepared for and embracing the future. They will analyze trends, interpret market data and organize focused working groups and think tanks run by true experts in their fields. They will produce pioneering research and insight papers and establish Revo as the place to come for authoritative commentary.

Having a broad message membership means that the Revo community stay well informed about the large range of issues affecting property owners, developers, investors, asset managers, retailers, consultants, shopping centre managers and public-sector employees and can utilize this network to develop solutions to many of the industry's current challenges.

- **Revo Insights** – Revo conduct innovative research into new trends and are the go-to organization for authoritative commentary and insight on industry and political issues. Revo produce thought-provoking content and engaging communications, making sense of the future of our community. Information contained within incl. Latest research and quarterly retail briefings, Industry reports, Guidance notes, Opinion and Trend Bites. Revo Insights [online]. Available at <https://www.revocommunity.org/insights> [accessed 25 January 2019]
- **Revo Education** – Revo are setting standards, recognizing achievement and sparking ideas. Their new educational programme will meet the needs of industry professionals throughout their careers, and they have a renewed focus on apprenticeships. Revo Education [online]. Available at: [www.revocommunity.org/education](http://www.revocommunity.org/education) [accessed 25 January 2019]

**Source:** British Council of Shopping Centres (BCSC), now **Revo - Retail. Property. Community** [online]. Available at: [www.revocommunity.org/](http://www.revocommunity.org/) [accessed 25 January 2019]

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### 3. **The National Building Information Modelling (BIM) Library** -

Source: NBS (2017), *NBS National BIM Library* [online] and available at: [www.thenbs.com/services/our-tools/nbs-national-bim-library](http://www.thenbs.com/services/our-tools/nbs-national-bim-library) & NBS homepage [online] and available at: [www.thenbs.com/](http://www.thenbs.com/) & NBS Knowledge [online] and available at: [www.thenbs.com/topics/index.asp](http://www.thenbs.com/topics/index.asp) [accessed 25 January 2019] –

#### **Introducing NBS**

NBS (trading name of RIBA Enterprises Ltd, and wholly owned by the Royal Institute of British Architects (RIBA)) is committed to offering distinctive, innovative specification and information solutions to construction industry professionals. They have produced specification for over 40 years, including the recognised national standard specification system for the UK. Their NBS specification products cover building construction, engineering

services and landscape design. They also produce a range of information products, including The National BIM Library and The Construction Information Services (which UCEM subscribes to).

### Lucy's Top Searching Tips

You will note within the toolbar at the top of NBS that there are sections entitled, 'Services', 'Knowledge' and 'Support':

**Services** – NBS ensure construction industry professionals have access to the right information at the right time in the right way. NBS's specification and collaboration, building product and construction knowledge tools and services enables delivery of outstanding projects in an informed, collaborative and efficient way. NBS services are for – Architecture; Building Services Engineering; Structural Engineering; Landscape Architecture; Small Projects; BIM Projects; For Enterprise; For Local Authorities; and Building Product Manufacturers.

**Knowledge** – NBS's subject specialists author a wide range of interesting articles that help you make informed decisions and deliver the best projects for your clients

### Topic areas include

- Building Information Modelling (BIM),
- Design and Specification,
- Construction Products,
- Contracts and Law,
- Plan of Work and Project Administration,
- Standards and Regulations,
- Sustainability,
- Health and Safety,
- **Additional topics incl.** Classification; Climate change; flooding; Green walls; Heating; IFC; Landscape; PAS 1192-2; Procurement; RIBA Plan of Work; Roofing; Students; Tendering; and Ventilation
- **Construction products incl.** Insulation; Lighting; and Timber
- **Building types incl.** Historic buildings; Museums; and Sports grounds
- **Content type incl.** Book extract; Event preview/review; Publication Index; Surveys; and Video
- **Content series incl.** Ecobuild 2016; Are you BIM ready? The Construction Act – One year after; Climate change adaptation in buildings; and Flood mitigation solutions in buildings
- **NBS Services incl.** NBS BIM toolkit; NBS Building; NBS Create; and NBS National BIM Library
- **NBS Reports incl.** National BIM Report; and NBS National Construction Contracts and Law Survey

**N.B.** Within each topic area has further information incl. Articles, Reports, **VIDEOS**, Recommended reading and Bibliographies.

**Source:** NBS (2017),

NBS National BIM Library [online] and available at: [www.thenbs.com/services/our-tools/nbs-national-bim-library](http://www.thenbs.com/services/our-tools/nbs-national-bim-library)

& NBS homepage [online] and available at: [www.thenbs.com/](http://www.thenbs.com/) ,

& NBS Knowledge [online] and available at: [www.thenbs.com/topics/index.asp](http://www.thenbs.com/topics/index.asp) [accessed 25 January 2019]

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## 4. **Infabode** – The daily resource for Real Estate professionals and students

The web has become overloaded with information, most of which is spread across thousands of company websites, and therefore accessing this comparable information can be both time consuming and frustrating at times.

Infabode works with a network of content partners, and by having all this information in one place provides a powerful platform for the real estate industry. Each user is then able to customise the platform to select and cater for their specific areas of interest.

### Some key facts:

- Content from **400+** Real Estate partners globally
- Over **250,000+** pages of industry information
- Opportunity to connect with over **17,000+** Real Estate professionals

Infabode allows users to choose from the real estate sectors that they are most interested in. The platform connects you with information from the **following markets** (incl. Office; Retail; Investment Vehicles; Residential; Capital Markets and Economics; Industrial; Student Halls; Hotels; Sustainability; Property Technology; Mixed User; Logistics; Accounting; Alternative sectors; Legal; Debt; and Rural.

**Please note:** To register and access **Infabode**,



For further information, please visit:

PropertyEU TV Channel (2016) 'The Infabode real estate information platform explained – Andrew Baum', YouTube [video]. Available at: [www.youtube.com/watch?v=oKPwleWFbXQ](http://www.youtube.com/watch?v=oKPwleWFbXQ) [accessed 25 January 2019]

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## 5. **RICS** (Royal Institution of Chartered Surveyors)

- **RICS (Royal Institution of Chartered Surveyors)** is an independent body committed to setting and upholding the highest standards of excellence and integrity in land, property and construction -

RICS are a global professional body promoting and enforcing the highest international standards in the valuation, management and development of land, real estate, construction and infrastructure.

By visiting RICS website, you will gain access to a range of

**RICS Useful links** @ [www.rics.org/uk/](http://www.rics.org/uk/) [accessed 25 January 2019] that provides direct links through to information relating to the following topic areas/keywords incl.

• **Environment**, • **Geomatics**, • **Minerals & waste**, • **Planning & development**, • **Rural**, • **Arts & antiques**, • **Commercial property**, • **Dispute resolution**, • **Facilities management**, • **Machinery & assets**, • **Management consultancy**, • **Residential property**, • **Valuation**, • **Building control**, • **Quantity surveying & construction**, • **Project management**, • **Building surveying**, • **BIM**, • **Infrastructure**, • **Measurements**, and • **Party walls**, as well as a video – 'The work that shapes our world | RICS'.

Royal Institution of Chartered Surveyors (2018), RICS UK [online]. Available at: [www.rics.org/uk/](http://www.rics.org/uk/) [accessed 25 January 2019]

**RICS Library Online catalogue** – 2500 electronic documents selected and catalogued, plus books, magazine articles, law reports and transcripts [online]. Available at:

<http://unicorn.rics.org/uhtbin/cgiirsi.exe/0/0/0/60/69/X> [accessed 25 January 2019]

**RICS Library Services** [online]. Available at: [www.rics.org/uk/footer/library-services/](http://www.rics.org/uk/footer/library-services/) [accessed 25 January 2019]

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## 6. **Chartered Institute of Building (CIOB) Insight** –

CIOB Insight – CIOB’s aim is to advance construction management education and to give access to that knowledge so that it can be shared and added to. CIOB do this in several ways and via the above-mentioned link you can gain access to CIOB views on leading issues within the industry, access to special interest groups and information contained within their library, along with data they create through their membership and beyond.

Sections include:

- **Policy and Public Affairs** – including Consultations, Research, Resources and News&Views. **CIOB Policy & Public Affairs [online]**. Available @ <https://policy.ciob.org/> [accessed 25 January 2019]. Policy latest is cover earlier in the e-bulletin.
- **Ambassadors** and informed about the CIOB ambassador programme
- **Magazines** – including information and access to **Construction Research and Innovation (CRI), The Construction Manager Magazine (CM), and Global Construction Review (GCR)**. CIOB Magazine [online]. Available @ [www.ciob.org/media-centre/magazines](http://www.ciob.org/media-centre/magazines) [accessed 25 January 2019];
- **CIOB Library** offering a collection of construction-related resources
- **Special Interest groups** incl. **Architecture & Surveying; Building Standards & Performance; Conservation, Adaptation & Refurbishment; Contracts & Dispute Resolution; Digital Technologies in Construction; European Projects; Facilities Management; Health & Safety; Innovation & Research Panel; and Time Management**. CIOB, Special Interest [online]. Available @ [www.ciob.org/special-interest](http://www.ciob.org/special-interest) [accessed 25 January 2019]
- **Research** – The CIOB research section is freely available (**Note:** but its title, source and date of publication must be acknowledged if cited. Any content, including data and analysis, must also be reported accurately and not used in a misleading context). **CIOB Research [online]**. Available @ <https://policy.ciob.org/research/> [accessed 16 January 2019]. Archived research that CIOB has undertaken incl. *The Changing Role of Women in Construction; The Cowboy Builder: A Public Perspective; Innovation in Construction; Occupational Stress in Construction; UK Construction Report on Sustainability; Managing the Risk of Delayed Completion*, and others. **Please note** the CIOB’s latest research is covered earlier in this issue.

Chartered Institute of Building (CIOB), 2018, **Insight** [online]. Available at: [www.ciob.org/insight](http://www.ciob.org/insight) [accessed 25 January 2019]

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## 7. **Inclusive Design Hub for the Built Environment** -

This Inclusive Design Hub for the Built Environment is a project of The Design Council who champion great design that improves lives and makes things better.

This Hub is a collection of the latest guidance and best practice on inclusive design in the Built Environment and has the following sections that can be searched upon incl.

- **Sectors:** Culture & Leisure; Transport; Education; Housing; Healthcare; Commercial; Heritage; Government; and Retail
- **Scale & Setting:** Urban; Public realm; Neighbourhood; Single Building; and Rural
- **User Journey:** Circulation and navigation; Visitor facilities; Entry and Exit; Arrival; Pre-arrival and Information
- **Resource Type:** Guidance and Interpretation; Technical resources; Case studies and good practice; and Regulation and legislation
- **Inclusion Type:** Physical inclusion; Visual inclusion; Cognitive inclusion; Social inclusion; Auditory inclusion; Demographic inclusion
- **Development phase:** Design; Management and Maintenance; Planning; Consultation and Engagement; Construction and Inception and definition.

Further information and to search upon the **Inclusive Design Hub**, please visit **The Design Council** [online].

Available at [www.designcouncil.org.uk](http://www.designcouncil.org.uk) [accessed 25 January 2019] and select **Projects** and **Inclusive Design Hub**

**for the Built Environment** [online]. Available at: [www.designcouncil.org.uk/projects/inclusive-design-hub-built-environment](http://www.designcouncil.org.uk/projects/inclusive-design-hub-built-environment) [accessed 25 January 2019] and click on 'Search the hub'

Source: The Construction Information Service (CIS) - *Briefing (UK – November 2014)* [online]

**Please note:** CIS can be accessed through the **Athens gateway** <http://www.openathens.net/> and by selecting 'IHS Information Services (incl. the Construction Information Service (CIS))'. The Briefing can be downloaded from the CIS homepage.

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## 8. Building Research Establishment (BRE)

BRE are an innovative group of researchers, scientists, engineers and technicians who share a common goal – to make the built environment better for all.

Through the BRE Group companies BRE and BRE Global, they generate new knowledge through independent research. This is used to create the products, standards and qualifications that help to ensure buildings, homes and communities are safe, efficient, productive, sustainable and enjoyable places to be. BRE customers use their expertise and services to deliver their social, environmental and economic goals.

Useful web links provide useful information resources incl.

- **News and Events** [online] and available @ <https://bregroup.com/news> [accessed 25 January 2019]
- **BRE Services** incl. Advisory, Conferences, Research, Testing, Certification and listing, Expert witness, Standards, and Training [online]. Available at: <https://bregroup.com/services/> [accessed 25 January 2019]
- **BRE Expertise** incl. BIM, Fire, Resilience, Security, Energy, Innovation, Safety, and Sustainability [online]. Available at: <https://bregroup.com/expertise/> [accessed 25 January 2019]
- **BRE Sectors** Incl. Property, Product manufacturing, and Construction [online]. Available at: <https://bregroup.com/sectors/> [accessed 25 January 2019]
- **BRE Products** incl. BREEAM, BRE Academy, Digital tools, CEEQUAL, Home Quality Mark, LPCB, SABRE, and SmartSite [online]. Available at: <https://bregroup.com/products/> [accessed 25 January 2019]
- **BRE Networks** incl. APRES, BRE Innovation Parks Network, BRE Women's Network, Centre for Smart Homes & Buildings, Commercial Partnerships, Constructing Excellence, and UK Green Building Council [online]. Available at: <https://bregroup.com/networks/> [accessed 25 January 2019]

Building Research Establishment (BRE) [online] and available @ <https://bregroup.com/> [accessed 25 January 2019]

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## 9. Global Research Gateway: CBRE's online resource for Real Estate Research -

- CBRE, the global leader in real estate services and investment.

Every day, in markets around the globe, CBRE apply insight, experience and resources to help clients make informed real estate decisions. Every year, they complete thousands of successful assignments across a wide range of markets and real estate service lines.

CBRE's deep experience and expertise allows them to paint a precise picture of global commercial real estate conditions and trends. It allows them to recognize opportunities quickly and take advantage of them.

CBRE's mission is to deliver consistently superior results by:

- Always putting the client first
- Bringing the best talent to every assignment
- Collaborating across markets and service lines
- Capitalizing on the depth of our market information and insight

CBRE has a **Global Research Gateway**: Your source for Real Estate Research [online]. Available at <https://researchgateway.cbre.com/> [accessed 25 January 2019]

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## 10. **TRUSTDR (Trust in Digital Repositories)** –

**TRUSTDR (Trust in Digital Repositories)** – a research project that examined how to effectively manage the legal aspects of digital collections of learning resources and produced a policy development toolkit.

It should be especially used for those wanting to provide a sound legal foundation for an institutional open education policy. It did this by critically examining the cultural, educational and technical factors involved and produced practical solutions and analyses. It took a very broad approach to the subject and examined issues of professional and organisational change in relation to the use of technology in education. All the outputs are freely available under a Creative Commons attribution **CC-BY licence**. You can access the project web site via the TRUSTDR (Trust in Digital Repositories) website [online]. Available at: <http://trustdr.digitalinsite.co.uk/> [accessed 25 January 2019]

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## 11. **The CIT-EA Project Creating Innovative Technology – Enhanced Assessments)** –

**The CIT-EA Project Creating Innovative Technology – Enhanced Assessments)** – a research project that explored ways to increase the amount of assessment in Further and Higher Education using technology.

Its ‘signature’ approach was to use systems theory to explore and identify the barriers to the adoption of e-assessment and identify workable solutions – it also had a focus on using learning design concepts especially the use of ‘design patterns’ in the form of assessment re-design templates. All the outputs are freely available under a Creative Commons attribution **CC-BY licence**. You can find the project website via the CIT-EA Project Creating Innovative Technology – Enhanced Assessments website [online]. Available at:

<http://citea.digitalinsite.co.uk/> [accessed 25 January 2019]

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## 12. **COPAC\*** –

**COPAC\*** exposes rare and unique research material by bringing together the catalogues of c.90 major UK and Irish Libraries. In a single search you can discover the holdings of the UK’s national libraries (including the British Library), many University libraries, and specialist libraries [online]. Further information is available at [www.copac.ac.uk](http://www.copac.ac.uk) [accessed 16 January 2019]

Researchers and educators use COPAC\* to save time in their research, to quickly and easily discover and locate resources, to check documents details, review materials etc. Information professional trust COPAC\* to give them access to a unique pool of high-quality bibliographic information.

COPAC\* is a Joint Information Systems Committee (JISC) service, provided for the UK community based on an agreement with Research Libraries UK (RLUK). The service uses records supplied by RLUK members, as well as an increasing range of specialist libraries with collections of national research interest.

COPAC\* is a registered trademark of The University of Manchester.

**NOTE: Institution of Civil Engineers (ICE) Library catalogue has been added to COPAC\*** – COPAC\* has loaded the catalogue of the Institution of Civil Engineers Library onto COPAC\*. See the COPAC\* blog [online] and available @ <http://blog.copac.ac.uk/2015/04/13/institution-of-civil-engineers-library-catalogue-loaded/> [accessed 25 January 2019] for full details.

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**Also, please note:**

## **Top 20 Urban Planning Websites**

- This year, marking the sixth year of The Global Grid's annual ranking, six new websites joined the ranks of their Top 20 Urban Planning Website selection. Last year's top-ranking website are, however, holding tight to their positions with only two new additions in the top ten. This year's list emphasizes the central role of urban policy.

Essbai S (2017) 'Top 20 Urban Planning Websites of 2017' [online], The Global Grid – urbanist news. local views. Available at <https://theglobalgrid.org/the-global-grid-top-20-urban-planning-websites-2017/> [accessed 25 January 2019]

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## **UCEM e-Library portrait**

**UCEM e-Library portrait @ <https://www.ucem.ac.uk/supported-online-learning/elibrary/> [accessed 25 January 2019]**



As of **January 2019**, a search of 'construction' on the internet produces over **2,870,000,000 items**. How long will it take you to find exactly what you are looking for?

The UCEM e-Library (accessed through the VLE) is a comprehensive and valuable online resource, enabling staff and students to access a wealth of up-to-date, credible and subject-specific information around the clock. The e-Library ensures that staff and students are kept informed of current and best practice from within construction and real estate and kept abreast of the latest developments within the profession.

### **The UCEM e-Library can:**

- provide a first point of call for staff and students to access digital resources
- add value and depth to work
- contribute to personal and professional development

### **What resources are available?**

Access to

- Up-to-date information and online searchable databases from key educational and industry-specific sources; useful weblinks; e-books and e-journals,
- Research and reference material to assist and underpin written work,
- Current awareness on existing issues and trends surrounding Construction and Real Estate.

You have access to  [Click here](#) to start searching the database **NOW**

**NOTE:** For the above link to work you must ensure that you are logged-in to **Athens - Section 2 of the VLE e-Library**

People have access to so much information these days and particularly through the Internet. **“Demonstrating to both UCEM staff and students what their e-Library can do for them remains a key priority.”** Lucy Roper, UCEM Information Governance Manager

### Some key facts and figures about the UCEM e-Library

Access to -

- over 2000 Full-Text Journal Titles (accessed through EBSCO Business Source premier, Emerald Insight, Taylor&Francis Online, IngentaConnect, as well as specialist Law Journals via Westlaw)
- over 1000 useful web links to e-Resources
- online searchable databases from 15 key industry specific & educational sources (including the RICS - Royal Institution of Chartered Surveyors online published material via ISURV and their Building Cost Information Service (BCIS), Building Services Research and Information Association (BSRIA), and industry specific journal, *Estates Gazette*.)
- A discovery service to allow students and staff to search all the UCEM Library services and e-Resources in one place
- Athens gateway – access and identity management system to allow single-sign on to Library subscription serviced
- a direct link to UCEM’s entire library of study material catalogue
- UCEM Published Research and back issues of this copy of *Knowledge Foundations* and formerly eBulletin
- Access to UCEM Research and Occasional Paper series, Reports and Publications, and Archive
- Reading lists, bibliographies and literature reviews incl. Abstracts and indexes of external databases
- Further Information, Advice and Guidance notes, discussion documents and fact sheets

### UCEM e-Library enquiry service –

UCEM are constantly striving to improve the online resources available to support learning and development. Therefore, having listened and responded to requests, the e-Library has now set up an enquiry service so that library queries can be put direct to an information specialist. So why not email today at [library@ucem.ac.uk](mailto:library@ucem.ac.uk) ?

Or access the e-library online. Available @ [www.ucem.ac.uk](http://www.ucem.ac.uk) [accessed 25 January 2019]

and click on ‘**Access your VLE**’ & visit the ‘**e-Library**’

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### Student career service –

The **UCEM Careers Service** is part of the Student Outreach Team and Student Services. They offer careers Information, Advice and Guidance (IAG) to potential, current and past students. The service is confidential, non-judgemental and impartial.

#### Reasons to use the UCEM Careers Service –

1. It’s industry specific and on trend. UCEM undertakes research and talks to employers all the time to keep up-to-date.

2. It's tailor-made; you may need a straight forward answer to a quick question or some in depth careers coaching. This is not "one size fits all".

3. UCEM runs a great online **Job Shop** with a wide range of opportunities from two-week placements to overseas roles. Employers really want to connect with you and often come to UCEM first with entry level jobs. Why not [click here](#) and **add us to your favourites?**

4. UCEM offers a CV review service to help you produce this all-important marketing tool.

5. This service is free, confidential and recognised by MATRIX, the industry Quality Standard. It can challenge the way you see yourself and maybe your perception of Career Advice too.

#### On offer

- Advice by email, phone or Skype; Career planning tools; Interview practice; Labour Marketing Information; Job search skills; Country specific advice for international students; and
- Specialist resources on the VLE

#### Popular topics include, but aren't limited to those below

- Industry information such as potential career paths and labour market data
- CV reviews, job applications and interview advice
- Job search strategies
- Career Planning including professional accreditation
- Finding Work Experience

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#### Related Links:

#### GoConstruct.org website

In September 2015 the Construction Industry Training Board (CITB) launched a response on behalf of many of the industry's training and professional bodies to the persistent call over the last year or more for a single portal – namely **GoConstruct.org** to help schoolchildren and others to explore job and career options within the construction sector, ranging from professional and managerial to trade and supervisory occupations. Hopefully it will cover every role you can think of? The CITB and Construction Excellence website have recommended everyone/readers to take a look at [www.goconstruct.org](http://www.goconstruct.org), pass on the link to those who can use it – and also provide feedback.

Ward, D., 17 September 2015, Constructing Excellence website [online]. Further information is available at: <http://constructingexcellence.org.uk/new-careers-website-launched-goconstruct-org-2/> [accessed 25 January 2019]

Or follow them on their Social Media sites. Access via the website **goconstruct.org**



[@GoConstructUK](#) or



#### Related Link:

**A career in construction gives you the chance to be part of something BIG!** [goconstruct.org](http://goconstruct.org) [accessed 25 January 2019]

[#ElizabethLine](#)

## TARGETjobs

All TARGETjob graduate careers guides and directories are available for you to view online and download for future reference incl. **Property 2019** and **Engineering 2019**.

TARGETjobs (2018) 'Graduate careers guides and directories from TARGETjobs' [online]. Available at: <https://targetjobs.co.uk/careers-products> [accessed 25 January 2019]

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## House Building Careers

Part of Home Builders Federation (HBF), here you will be able to learn about the home building industry and how it benefits you, your community and the country as a whole [online]. Further information available at:

<http://housebuildingcareers.org.uk/> [accessed 25 January 2019]

## RICS Careers

- The mission of Future Talent at RICS is to inspire and attract an inclusive, talented profession. As with UCEM it is vital that we attract the right talent, from a diverse range of backgrounds, provide and equip them with the right skills to ensure our profession is fit for the future.

RICS Future Talent runs initiatives and outreach programmes to students within schools, colleges and universities, representing and leading groups on careers, and support employers of all sizes and sectors to recruit the next generation of professionals.

- **Make a difference** – see projects you've worked on and know you achieved that
- **Good salary** – the average salary (see publication date) for a chartered surveyor is £60,000
- **Variety** – surveying is not an ordinary 9-5 desk job
- **Travel the world** – RICS is recognised globally so you can have the opportunity to travel the world
- **Accessible** – with many ways to qualify as a surveyor, it's a professional career that is open to everyone.
- **Career opportunities** – surveying skills are in demand, so you can develop and grow the career you want.

With the RICS Careers designated webpages you can find the following information incl.

- **Explore surveying?**
- **How to become a surveyor,**

and further advice for employers, those current studying, RICS Matrics, apprenticeships and a video entitled – 'The work that shapes our world | RICS'

Royal Institution of Chartered Surveyors (RICS), 2018, 'RICS Careers' [RICS website > Home > Careers] RICS [online]. Available at: [www.rics.org/uk/careers/](http://www.rics.org/uk/careers/) [accessed 25 January 2019]

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## Building a better you

- Property Elite's sole aim is to build better property professionals – supporting your career every step of the way, whether you are completing a RICS accredited degree course, your RICS APC or simply seeking engaging CPD.

Property Elite provides training and Continuing Professional Developments (CPD) services for property professionals, including students, APC candidates and corporate clients.

Their **Hot Topic Highlight blog** posts will arm you with the information on the hottest topics – ready to tackle an important client meeting or begin revising for your RICS APC final assessment.

The latest blog focuses on

## Hot Topic Highlight – Complaints Handling Procedure (CHP) – [January 2019](#)

This week Property Elite are looking at Complaints Handling Procedures (CHP). This updates an earlier blog article, to include the revised RICS Alternative Dispute Resolution (ADR) Mechanisms – UK & Ireland (Version 6), which takes effect from January 2019.

**Lucy Top Tip** – If you are an RICS APC candidate, be sure to check out their APC Support services, including submission reviews, question packs, revision quizzes and e-mock interviews. Further information is provided via the link below.

### **Complaints Handling Procedures (CHP)**

This specifically forms part of the Conduct rules, ethics & professional practice and Client care RICS APC competencies, as well as being vital knowledge for qualified members and RICS APC candidates in your everyday working life.

A complaint is defined as ‘a statement that something is unsatisfactory or unacceptable’ or ‘any expression of dissatisfaction’. They generally arise when expectations are not met, e.g. timing, scope of work, misunderstanding and delays.

Therefore, the best way to avoid complaints in the first place is by:

- Setting out clear expectations in Terms of Engagement (referring to your CHP) and Key Performance Indicators
- Communicating clearly and effectively with your client and other key stakeholders
- Seeking feedback and resolving issues efficiently as they arise

By managing complaints in an appropriate manner, you can create an opportunity to rectify service problems and further develop client relationships.

RICS regulated firms are required by Rule 7 of the **Rules of Conduct for firms** to ‘operate a complaints handling procedure and maintain a complaints log. The complaints handling procedure must include an Alternative Dispute Resolution (ADR) mechanism that is approved by the Regulatory Board’.

A firm’s CHP should also be approved by your Professional Indemnity Insurance provider.

The RICS have issued a Guidance Note for residential surveyors and valuers on complaints handling; **Complaints handling (1<sup>st</sup> edition, 2016)**. This is also likely to be of interest to surveyors within other sectors, e.g. commercial, although the principles are of primary application to the residential sector.

The key principles of an effective CHP are being:

- **Fit for purpose**
- **Understood**
- **Available**
- **Readily shared**
- **Reviewed regularly**

Further recommendations and an example from RICS is provided via the source link below as well as more detailed guidance on:

**The key stages of complaints handling are as follows Incl.**

- **Stage 1** – written complain received and reviewed by the firm, acknowledged within 7 days and responded to within 28 days
- **Stage 2** – complaint reviewed by an independent redress provider (approved by RICS and confirmed by the firm to RICS in their annual return)

**N.B.** nothing in this article constitutes legal advice.

Source: Lemen-Hogarth J (2019) *Hot Topic Highlight – Complaints Handling Procedure (CHP) – January 2019* [online], Property Elite LLP. Available at:

<https://property-elite.co.uk/blog/hot-topic-highlight-complaints-handling-procedure-1-1> [accessed 25 January 2019]

Note: Jen Lemen-Hogarth is an Associate Tutor - UCEM and Partner - Property Elite

You can also download this blog in audio format and listen whilst on the move. When you’re done, you can request further information and a free CPD certificate.

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## UCEM's Sustainability Hub:

### The Routledge Sustainability Hub

The Routledge Sustainability Hub is an innovative Knowledge Centre for the global sustainability community, this Hub offers a wide range of resources for everyone – whether you are a teacher, a student, a professional or a citizen of the earth curious to discover more about the many facets of sustainability.

Further information available at: [www.routledgetextbooks.com/textbooks/sustainability](http://www.routledgetextbooks.com/textbooks/sustainability) [accessed 25 January 2019]

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### FreeBook: Pathways to Sustainable Agriculture

Produced in Partnership with the ESRC STEPS Center

This FreeBook highlights some of the major findings that have emerged over the last decade of the STEPS Centre's research on sustainable agriculture.

It draws on four books which address three themes central to understanding how pathways emerge in agriculture, and how sustainability, is or indeed is not, generated. The three themes are: framing (how we understand agriculture and its roles in development), practice (how agriculture and agricultural research is carried out, and by whom) and governance (how agriculture is regulated and controlled).

[Click here](#) to gain free access to receive your FreeBook. [accessed 25 January 2019]

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### Sustainable Building Training Guide Launched

Produced by the Green Construction Board and the Construction Leadership Council this new guide has been endorsed by leading construction businesses and industry federations, training bodies, and professional institutions.

This accessible guide explains the principles of sustainable building in terms that are useful for the development of content for standards, qualifications, apprenticeships and training courses. Its purpose is to help the training sector to embed sustainability within all mainstream learning, including the national curriculum, apprenticeships, degrees and professional qualifications. It is therefore a key reference for anyone involved in construction training.

The publication, use, and uptake of this guide is a key recommendation of the "Each Home Counts" Reviews. Its adoption and use by the training sector will help us to address the so-called 'performance gap' and will ultimately aid the transition to an energy efficient and low carbon-built environment.

You can download a copy of the publication via the hyperlink provided below.

CIC - Construction Industry Council (2017), *Sustainable Building Training Guide Launched* [online]. Available at: <http://cic.org.uk/news/article.php?s=2017-02-28-sustainable-building-training-guide-launched> [accessed 25 January 2019]

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### BREEAM Wiki (Part of Designing Buildings Wiki)

The BREEAM Wiki is a centralized library of guidance and best practice created not by the Building Research Establishment (BRE) but by users and other key stakeholders of BREEAM schemes and tools, including HQM and CEEQUAL. The wiki aims to:

- Disseminate best practice and lessons learnt

- Make it very easy to share

#### Recently added articles incl.

- BREEAM and RIBA stages
- BREEAM UK New Construction 2018 changes summary
- BREEAM Sustainable transport measures
- BREEAM Online information map

Source: **BREEAM Wiki: Part of Designing Buildings.co.uk Wiki** (2018) [online]. Further information is available at: [https://www.designingbuildings.co.uk/wiki/BREEAM\\_Wiki](https://www.designingbuildings.co.uk/wiki/BREEAM_Wiki) [accessed 25 January 2019]

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#### **NOTE: Use of Wikipedia as a reference site:**

Wikipedia and use of other Wiki are increasingly being used by people in the academic community, as an easy source of information about anything and everything. However, citation of Wikipedia may not be considered acceptable, because Wikipedia is not a creditable source.

It is important to note that whilst Wikipedia may be one of the Web's most popular reference sites, it is not classed as a credible resource because anyone can be a contributor to the website.

This can be avoided by following two simple rules:

- Remember that any encyclopaedia (which includes Wikipedia and any other wiki) can be a good starting point for research, and not an ending point.
  - An encyclopaedia can be good for getting a general understanding of a subject before you extend your study of the subject further. But you then must consider the subject in more depth using books, journal articles and other appropriate and credible resources. What you find in these other sources of information will be more detailed, more precise, and more carefully reasoned than the summary you found in an encyclopaedia. The sources you reference/cite in your work will therefore be these more detailed sources you have used.
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### **BBC Plastics Watch Resources**

- Bringing together the best content from around the BBC to help you discover everything you want to know about plastics.

Areas covered within the BBC Plastics Watch Resource area incl.

- **Beach Cleans and Volunteering** – #2minutebeachclean; Find, join or start a free refill scheme; Marine Conservation Society; National Trust: Pitch in with a Beach Clean; Surfers Against Sewage; Thames 21: Volunteer for river clean ups; and The Wildlife Trusts: Volunteer,
- **Plastics Free Living** – Friends of the Earth: Can you go plastics free?; Marine Conservation Society: Can you go a month without plastic?; A Plastic Planet: A plastic-free aisle; and Surfers Against Sewage: Plastic free communities,
- **Changing the Plastic Based Economy** – New Plastics Economy; and The Plastics Pact,
- **Research** – *UN Environment: Single-use plastics: A roadmap for sustainability*; *UN Environment: The state of plastics: World environment day outlook 2018*; and *UN Environment: Exploring the potential for adopting alternative materials to reduce marine plastic litter*

BBC (2018) – Plastics Watch Resources [online]. Available at:

[www.bbc.co.uk/programmes/articles/453T5Gp3FP6kmMrJBRS09d/resources](http://www.bbc.co.uk/programmes/articles/453T5Gp3FP6kmMrJBRS09d/resources) [accessed 25 January 2019]

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### **Building Research Establishment (BRE) -**

#### **Sustainability: [Practical guidance and support for delivering genuine sustainability benefits](#)**

- Greater sustainability and its many benefits can be achieved for all buildings, homes, organisations and communities.

Internationally recognised as the developers of sustainability standards codes and methodologies (such as BREEAM) for buildings, homes, communities and infrastructure, the BRE expert team offers a comprehensive range of sustainability services. BRE can also help (further information provided via the below mentioned source) to reduce the environmental impact of construction processes, materials and operations, and provide leading edge information and advice on all aspects of the sustainability of:

- Sustainable construction of buildings
- Communities
- Infrastructure
- Sustainable organisations
- Materials, products and services
- Waste management
- Energy management services
- Training and publications

This and further information are available at

Source: **BRE / Sustainability** [online] and available @ <https://bregroup.com/expertise/sustainability/> [accessed 25 January 2019]

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## QSAND and the Sustainable Development Goals



Source: **Designing Buildings.co.uk Wiki**, (2018) 'Forgetting the big picture when considering sustainability' [online], last edited 27 April 2018. Further information is available at: [www.designingbuildings.co.uk/wiki/QSAND\\_and\\_the\\_Sustainable\\_Development\\_Goals](http://www.designingbuildings.co.uk/wiki/QSAND_and_the_Sustainable_Development_Goals) [accessed 25 January 2019]

- The UN Sustainable Development Agenda, adopted by world leaders in 2015, maps out a 15-year plan to fight inequality, end poverty, and tackle climate change challenges. The 17 goals (as identified within the above figure) are designed to build upon the Millennium Development Goals and go further towards ensuring sustainability is at the forefront of human development up until 2030.

From Building Research Establishment (BRE), sustainability and resilience are key focus areas. QSAND (Quantifying Sustainability in the Aftermath of Natural Disasters) is a self-assessment tool to promote sustainable approaches to relief, recovery and reconstruction after a natural disaster. Through QSAND we are making a contribution to aid the achievement of several of these goals in disaster-affected communities around the globe.

Central to the thinking behind the QSAND tool is that sustainable approaches to reconstruction can help limit the impact disasters have in the short, medium and long term and improve the resilience of local communities to future disasters as they occur. It is this holistic approach and a strong focus on the development of local skills and capabilities that demonstrates QSANDs overarching support for the Sustainable Development Goals (SDGs). In addition to its focus on sustainable cities and communities (SDG 11), QSAND supports the goals by promoting clean and renewable energy solutions (SDG 7), responsible consumption (SDG 12), and clean water and sanitation (SDG 6) alongside many other areas.

Consideration of the natural environment alongside the needs of people globally is important in measuring success in the pursuit of the SDGs. It can offer a form of protective barrier against disasters. QSAND does this by providing a framework which can be used to support protection of local ecology, balancing this against the maintenance of livelihoods and economic prosperity. Often, protecting natural resources can also support livelihoods, further reducing a communities vulnerability to disasters.

Whilst QSAND is designed as a tool to be used in response to a specific disaster to support the recovery process, its sustainability scope is wider than this. By considering the medium to longer-term impacts of decisions made in the early days of disaster recovery, it helps provide a framework that can help avoid, limit or mitigate further harm to the natural environment that can occur during reconstruction.

QSAND is proud to support the aims laid out in the Sustainable Development Goals, and support efforts to contribute to the global movement towards a sustainable, resilient, and prosperous future.

Source: **Designing Buildings.co.uk Wiki**, (2019) 'QSAND and the Sustainable Development Goals' [online], last edited 10 January 2019. Further information is available at:

[www.designingbuildings.co.uk/wiki/QSAND\\_and\\_the\\_Sustainable\\_Development\\_Goals](http://www.designingbuildings.co.uk/wiki/QSAND_and_the_Sustainable_Development_Goals) [accessed 25 January 2019]

#### **Related Links:**

### **What to expect of sustainability professionals**

**Designing Buildings.co.uk Wiki**, (2018) 'What to expect of sustainability professionals' [online], last edited 16 November 2017. Further information is available at:

[www.designingbuildings.co.uk/wiki/What\\_to\\_expect\\_of\\_sustainability\\_professionals](http://www.designingbuildings.co.uk/wiki/What_to_expect_of_sustainability_professionals) [accessed 25 January 2019]

#### **Further information and related articles via the above mentioned link incl.**

- **Articles by ICE (Institution of Civil Engineers) on Designing Buildings Wiki,**
- **Consultant team for design and construction,**
- **Design team meeting,**
- **Navigating beyond sustainability buzzwords,**
- **Sustainability,**
- **Sustainable materials, and**
- **Sustainable procurement.**

Source: **Designing Buildings.co.uk Wiki**, (2018) 'Forgetting the big picture when considering sustainability' [online], last edited 27 April 2018. Further information is available at:

[www.designingbuildings.co.uk/wiki/Forgetting\\_the\\_big\\_picture\\_when\\_considering\\_sustainability](http://www.designingbuildings.co.uk/wiki/Forgetting_the_big_picture_when_considering_sustainability) [accessed 25 January 2019]

### **Sustainability in building design and construction**

Source: **Designing Buildings.co.uk Wiki**, (2017) 'Sustainability in building design and construction' [online], last edited 30 June 2017. Further information is available at:

[www.designingbuildings.co.uk/wiki/Sustainability\\_in\\_building\\_design\\_and\\_construction](http://www.designingbuildings.co.uk/wiki/Sustainability_in_building_design_and_construction) [accessed 25 January 2019]

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## openDemocracy

**openDemocracy** is an independent global media platform publishing up to 60 articles a week and attracting over 8 million visits per year. Through reporting and analysis of social and political issues, openDemocracy seeks to challenge power and encourage democratic debate across the world. With human rights as their central guiding focus, they ask tough questions about freedom, justice and democracy.

**openDemocracy** [online]. Available at: [www.opendemocracy.net/](http://www.opendemocracy.net/) [accessed 25 January 2019]

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## Sustainability in Facilities Management (FM) – A useful online tool and resource pool

The Sustainability in Facilities Management (Sustainability in FM) web site provides a practical, easy to use first point of contact for Facilities Managers where best practice case studies on sustainability topics can be found. All case studies are vetted to provide relevance to Facilities Management, practically and absence of marketing spin. The web site also provides Facilities Managers with background information on the most common sustainability issues and links out to recommend centres of excellence.

“Knowledge Transfer Partnerships” (KTP) are a Technology Strategy Board programme set up to improve competitiveness and productivity through the better use of knowledge, technology and skills. The Sustainability in FM research project is a partnership between the British Institute of Facilities Management (BIFM) and the University of Reading under this part government funded scheme.

The aim of the project is to develop practical tools for the FM professional so that they can improve the implementation and management of sustainable practices in the working environment.

**Please note:** To register on *Sustainability in FM* is free but to access the full content of the site registration is required.

Sustainability in Facilities Management (FM) – A useful online tool and resource pool [online] and available at: <http://www.bifm.org.uk/bifm/knowledge/sustainabilityinfm> [accessed 25 January 2019]

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## UCEM's commitment to the sustainability agenda –

**beesustainable** BUILT • ENVIRONMENT • EDUCATION

**UCEM's** strategic ambition is to develop and implement genuine sustainability credentials as a socially responsible organisation by;

- Ensuring our students leave their study with UCEM conversant in best practice in nurturing a sustainable built environment
- Making sustainability a central focus for UCEM at organisational, departmental and individual levels, and
- Establishing UCEM as a leader in the sustainability agenda through actively influencing industry and conducting research in our sector

UCEM, February 2015, *thirty-seven twenty-seven, Principal's Update*, Issue 13, Reading: UCEM

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## Useful web-links

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[N](#) - [O](#) - [P](#) - [Q](#) - [R](#) - [S](#) - [T](#) - [U](#) - [V](#) - [W](#) - [X](#) - [Y](#) - [Z](#)

### A

**American Society of Civil Engineers (ASCE)** Civil Engineering database [www.asce.org/](http://www.asce.org/) [accessed 25 January 2019] provides free access to over 80 thousand abstracts taken from ASCE publications since 1973.

**Association of Researchers in Construction Management (ARCOM)** brings together all those interested in construction management research. It aims to further the advancement of knowledge in all aspects of management in construction by support education, dissemination and research [online]. Further information available at: [www.arcom.ac.uk/index.php](http://www.arcom.ac.uk/index.php) [accessed 25 January 2019]

**ARCOM Abstracts database** – contains open access of every ARCOM conference paper since 1997 and is now a major resource for all active researchers [online]. Available at: [www.arcom.ac.uk/abstracts.php](http://www.arcom.ac.uk/abstracts.php) [accessed 18 December 2018]. **ARCOM Newsletters** - contains the latest news from the industry [online]. Available at: [www.arcom.ac.uk/newsletters.php](http://www.arcom.ac.uk/newsletters.php) [accessed 25 January 2019]

### B [\[Back to A to Z\]](#)

**BAILLI** Case Law Search (British and Irish Legal Information Institute) [online]. Further information available at: [www.bailii.org/form/search\\_cases.html](http://www.bailii.org/form/search_cases.html) [accessed 25 January 2019]

**BBC Education** [online]. Further information available at: [www.bbc.co.uk/news/education/](http://www.bbc.co.uk/news/education/) [accessed 25 January 2019]

**BBC Search** [online]. Further information available at: [www.bbc.co.uk/search/](http://www.bbc.co.uk/search/) [accessed 25 January 2019]

**BCSC (British Council of Shopping Centres)** was the professional body and authoritative voice for retail-led regeneration and for the management of and investment in shopping places [online].

**NOTE:** BCSC has changed and is now **REVO – Retail. Property. Community.** See REVO below. Further information available at: [www.revocommunity.org/](http://www.revocommunity.org/) [accessed 25 January 2019]

**BCSC Research + Education Document listing – Now REVO [online]** and available at: [www.revocommunity.org/documents/list](http://www.revocommunity.org/documents/list) [accessed 25 January 2019]

**BIFM (British Institute of Facilities Management)** – The BIFM is now **IWFM – Institute of Workplace and Facilities Management.** Please refer to IWFM below.

**BIM Task Group** – The Building Information Modelling (BIM) Task Group support and develop the objectives of the Government Construction Strategy and the requirement to strengthen the public sector’s capability in BIM implementation [online]. **N.B.** This group and programme are now part of the **Centre for Digital Built Britain (CDBB)** [online]. Further information is available at: [www.cdbb.cam.ac.uk/AboutDBB/FAQs](http://www.cdbb.cam.ac.uk/AboutDBB/FAQs) [accessed 25 January 2019]. Please refer to question 9 – What is the Digital Built Britain Programme? specifically.

**BIMForum** – The BIMForum’s mission is to facilitate and accelerate the adoption of building information modelling (BIM) in the AEC (Architecture, Engineering and Construction) industry. Further information is available via the BIMForum Website [online] and @ <http://bimforum.org> [accessed 25 January 2019]

**BOMA International** (Building Owners and Managers Association International) – a federation of 91 BOMA U.S. associations and 17 international affiliates. Founded in 1907, BOMA’s mission is to advance a vibrant commercial real estate industry through advocacy, influence and knowledge. BOMA Research and Resources [online] and available at: [www.boma.org/research/Pages/find-a-resource.aspx](http://www.boma.org/research/Pages/find-a-resource.aspx) [accessed 25 January 2019]

**British Property Federation (BPF)** – The British Property Federation is a membership organisation devoted to representing the interests of all those involved in real estate ownership and investment [online]. Further information available at: [www.bpf.org.uk/en/index.php](http://www.bpf.org.uk/en/index.php) [accessed 25 January 2019]

**BRE (Building Research Establishment)** is an independent and impartial, research-based consultancy, testing and training organisation, offering expertise in every aspect of the built environment and associated industries [online]. Further information available at: <https://bregroup.com/about-us/> [accessed 25 January 2019]

**BRE A-Z of BRE Services** (from Accreditation to Zero Carbon) [online]. Further information is available at: [www.bre.co.uk/atoz.jsp](http://www.bre.co.uk/atoz.jsp) [accessed 25 January 2019]

**BRE Case Studies** [online]. Further information is available at: [www.bre.co.uk/podpage.jsp?id=1744](http://www.bre.co.uk/podpage.jsp?id=1744) [accessed 25 January 2019]

**BSRIA (Building Services Research and Information Association)** is a test, instrumentation, research and consultancy organisation, providing specialist services in construction and building services. Available at: [www.bsria.co.uk/](http://www.bsria.co.uk/) [accessed 25 January 2019]

**Builder and engineer** [online]. Available at: [www.builderandengineer.co.uk/](http://www.builderandengineer.co.uk/) [accessed 6 November 2017] – Free access to articles from Builder and Engineer magazine and locate information on current projects as well as company profiles, products and industry news.

**Building Conservation. com** [online] – Information resources for conservation, restoration and repairs. Available at: [www.buildingconservation.com/](http://www.buildingconservation.com/) and Articles directory by subject @ [www.buildingconservation.com/articles/articles.htm](http://www.buildingconservation.com/articles/articles.htm) [accessed 25 January 2019]

**Building Design Directory** – provides construction and environmental products / services / information for Architects, Engineers and Facility Managers [online]. Available at: [www.buildingdesign.co.uk](http://www.buildingdesign.co.uk) [accessed 25 January 2019]

**Building talks** [online]. Available at: [www.buildingtalk.com](http://www.buildingtalk.com) [accessed 25 January 2019] *Building Talks* is an email newsletter for Architects, Civil Engineers and Building Services Contractors.

**CABER (Centre for Architecture and Built Environment Research)** seeks to develop innovative approaches, procedures, technologies and techniques that support the design, management, reconfiguration, maintenance and operation of buildings, their fabric and the environments they create. **Note:** CABER incorporates the previous Centre for Construction and Property Research (CPRC). CABER [online] and available @ [www1.uwe.ac.uk/et/research/caber.aspx](http://www1.uwe.ac.uk/et/research/caber.aspx) [accessed 25 January 2019]

**CBA (Council for British Archaeology)** is an independent charity bringing together members, supporters and partners to give archaeology a voice and safeguard it for future generations [online]. Available at: <http://new.archaeologyuk.org/> [accessed 25 January 2019]

**CBI (Confederation of British Industry)** is the UK's premier business lobbying organisation, providing a voice for employers at a national and international level [online]. Available at: [www.cbi.org.uk/](http://www.cbi.org.uk/) [accessed 25 January 2019]

**CBI Construction Section** [online]. Available at: [www.cbi.org.uk/business-issues/construction/](http://www.cbi.org.uk/business-issues/construction/) [accessed 16 January 2019]

**CBRE (Commercial Real Estate Services)** is the world's largest real estate services provider, with a preeminent leadership position in virtually all key business centers globally [online]. Available at: [www.cbre.com/EN/Pages/Home.aspx](http://www.cbre.com/EN/Pages/Home.aspx) [accessed 25 January 2019]

**CDBB (Centre for Digital Built Britain)** is a partnership between the Department of Business, Energy & Industrial Strategy and the University of Cambridge to deliver a smart digital economy for infrastructure and construction for the future and transform the UK construction industry's approach to the way we plan, build, maintain and use our social and economic infrastructure. CDBB [online]. Available at: [www.cdbb.cam.ac.uk/AboutDBB](http://www.cdbb.cam.ac.uk/AboutDBB) [accessed 25 January 2019]

**CEBE (The Centre for Education in the Built Environment)** - As part of the Subject Network of the Higher Education Academy (HEA) [online] and available at: [www.heacademy.ac.uk/](http://www.heacademy.ac.uk/) [accessed 16 January 2019] the Centre provides discipline based support to enhance the quality of learning and teaching in the UK Higher Education CEBE, **Built Environment community**.

**CEM (College of Estate Management)** – See **UCEM (University College of Estate Management)**

**CIC (Construction Industry Council)** – The representative forum for the professional bodies, research organisations and specialist business association in the construction industry [online] and available at: <http://cic.org.uk/> [accessed 25 January 2019]

**CIOB (Chartered Institute of Building)** The Chartered Institute of Building is the international voice of the building professional, representing an unequalled body of knowledge concerning the management of the total building process [online]. Available at: [www.ciob.org.uk/](http://www.ciob.org.uk/) [accessed 25 January 2019]

**CIOB Insight** Incl. Library and Information Services [online]. Available at: [www.ciob.org.uk/library](http://www.ciob.org.uk/library) [accessed 25 January 2019]

**CIOB – Construction Manager** [online]. Available at: [www.constructionmanagermagazine.com/](http://www.constructionmanagermagazine.com/) [accessed 25 January 2019]

**CIOB – Global Construction Review** [online]. Available at: [www.globalconstructionreview.com/](http://www.globalconstructionreview.com/) [accessed 25 January 2019]

**CIOB – Policy and Public Affairs portal** [online]. Available at: <http://policy.ciob.org/> [accessed 25 January 2019]

**CIRIA – The Construction Industry Research and Information Association** and CIRIA Resources [online]. Further information is available at: [www.ciria.org/default.aspx](http://www.ciria.org/default.aspx) [accessed 25 January 2019]

**CITB – Construction Industry Training Board** is the training board for the construction industry and partner in Construction Skills, the Sector Skills Council [online]. Available at: [www.citb.co.uk/](http://www.citb.co.uk/) [accessed 25 January 2019]

**Cities / buildings images database** [online]. Available at: [www.washington.edu/ark2](http://www.washington.edu/ark2) [accessed 25 January 2019] is a collection of images of buildings and cities from around the world aimed at students, researchers and educators.

**CLH - Community-Led Housing Toolkit:** a resource for local authority and housing professionals' [online]. Available at: <https://clhtoolkit.org/> [accessed 25 January 2019]. This Toolkit provides a wealth of technical and non-technical information on a broad range of issues relevant to CLH. There are five Toolboxes, covering (i) Housing (ii) Communities (iii) Legal (iv) Planning and (v) Finance.

**Constructing Excellence (delivered with bre)** is a platform for industry improvement to deliver excellence through clients, industry and users through collaborative working. Resources include publications, tools and newsletter [online]. Available at: <http://constructingexcellence.org.uk/> [accessed 25 January 2019]

**Construction Enquirer** – The best-read news website in construction [online]. Available at [www.constructionenquirer.com](http://www.constructionenquirer.com) [accessed 25 January 2019]

The **Construction Index** [online] provides a wide range of information services for the UK construction industry, incl. search engine of construction companies, daily construction news, market data, email newspaper letter, and Case Law analysis and legal commentary. Further information is available at: [www.theconstructionindex.co.uk/](http://www.theconstructionindex.co.uk/) [accessed 25 January 2019].

**Construction News** [online]. Available at [www.cnplus.co.uk](http://www.cnplus.co.uk) [accessed 25 January 2019]

**Construction Products Association (CPA)** represents the UK's manufacturers and distributors of construction products and materials. Further information available at Construction Products Association [online]. Available at: [www.constructionproducts.org.uk/](http://www.constructionproducts.org.uk/) [accessed 25 January 2019]

**Contractors World** magazines (incl. **Contractors World International** and **Contractors World UK & Ireland**) are the leading international digital publications. Delivering site reports, equipment reviews and comments of interest on the construction, mining, quarrying and related industries [online]. Available at: <http://cwmags.com/> [accessed 25 January 2019].

**COPAC** exposes rare and unique research material by bringing together the catalogues of c.90 major UK and Irish Libraries. In a single search you can discover the holdings of the UK's national libraries (including the British Library), many University libraries, and specialist libraries [online]. Further information is available at: <http://copac.ac.uk/> [accessed 25 January 2019]

**COTAC (Conference on Training in Architectural Conservation)** was formed in 1959 to improve the standard of education of everyone involved in building conservation, including craftsmen, professionals and home owners [online]. Available at: <http://ihbconline.co.uk/cotac2/> [accessed 25 January 2019]

**COTAC Digital Bibliography** [online]. Available at: [www.cotac.org.uk/digital\\_bib/](http://www.cotac.org.uk/digital_bib/) [accessed 25 January 2019]

**CPIC (Construction Project Information Committee)**, responsible for providing best practice guidance on the content, form and preparation of construction production information, and making sure this best practice is disseminated throughout the UK construction industry [online]. Available at: [www.cpic.org.uk/](http://www.cpic.org.uk/) [accessed 25 January 2019]

**CPRC (Construction and Property Research Centre), University of the West of England (UWE)** – the CPRC's research activity is focused around the three inter-related stages of the built environment life-cycle, namely design, construction and maintenance [online]. Available at:

[www1.uwe.ac.uk/et/research/cprc.aspx](http://www1.uwe.ac.uk/et/research/cprc.aspx) [accessed 25 January 2019]. **Note:** CABER (Centre for Architecture and Built Environment Research) mentioned above incorporates the CPRC.

**CPRC, UWE Research Repository** – Providing immediate world-wide open access to all UWE’s research output [online]. Available at: <http://eprints.uwe.ac.uk> [accessed 25 January 2019]

**CPRE (Campaign to Protect Rural England)** – CPRE campaign for a beautiful and living countryside. They work to protect, promote and enhance our towns and countryside to make them better places to live, work and enjoy, and to ensure the countryside is protected for now and future generations [online] Available at: [www.cpre.org.uk/](http://www.cpre.org.uk/) [accessed 25 January 2019].

**CPRE Resources** provides the latest news articles, policy guidance notes, published reports and research surrounding the following - Countryside, Farming and food, **Housing and planning**, Energy and Waste, and Transport [online]. Available at: [www.cpre.org.uk/resources](http://www.cpre.org.uk/resources) [accessed 25 January 2019]

**CPWR (The Center for Construction Research and Training)** – CPWR is dedicated to reducing occupational injuries, illnesses and fatalities in the construction industry through research, training and service programs. CPWR [online] and available at: [www.cpwr.com/](http://www.cpwr.com/) [accessed 25 January 2019]

## D [\[Back to A to Z\]](#)

The **Design Council** champions great design that improves lives and makes things better [online] and available @ [www.designcouncil.org.uk/](http://www.designcouncil.org.uk/) [accessed 25 January 2019]. See also **Inclusive Design Hub for the Built Environment** (a project of The Design Council) listed below.

**Designing Buildings Wiki** [online] and available at: [www.designingbuildings.co.uk/wiki/Home](http://www.designingbuildings.co.uk/wiki/Home) [accessed 25 January 2019] - an industry-wide, cross-discipline forum for finding and sharing information.

**Designing Buildings Wiki – Student resources** [online] and available at: [www.designingbuildings.co.uk/wiki/Student\\_resources](http://www.designingbuildings.co.uk/wiki/Student_resources) [accessed 25 January 2019] – *Designing Buildings Wiki* has a wide range of resources aimed at students of the built environment, as shown here.

**DOAB (Directory of Open Access Books)** is a service which harvests details of academic and mainly peer-reviewed books published on open access [online]. Available at: [www.doabooks.org/doab](http://www.doabooks.org/doab) [accessed 25 January 2019]

**DOAJ (Directory of Open Access Journals)** covers all open access scientific and scholarly journals, using a quality control system to guarantee the content [online]. Available at: <https://doaj.org/> [accessed 25 January 2019]

## E [\[Back to A to Z\]](#)

**The Economics Network** provides publications, events and other resources to support university teachers of economics throughout the UK and worldwide [online]. Available at: [www.economicsnetwork.ac.uk](http://www.economicsnetwork.ac.uk) [accessed 25 January 2019]

**Engineering and Physical Sciences Research Council (EPSRC)** is the main UK government agency for funding research and training in engineering and the physical sciences, investing more than £800 million a year in a broad range of subjects – from mathematics to materials science, and from information technology to structural engineering [online] and available at: [www.epsrc.ac.uk/](http://www.epsrc.ac.uk/) [accessed 25 January 2019]

**English Heritage** cares for over 400 historic buildings, monuments and sites – from world-famous prehistoric sites to grand medieval castles, from Roman forts on the edges of the empire to a Cold War bunker. Further information is available at: [www.english-heritage.org.uk/](http://www.english-heritage.org.uk/) [accessed 25

January 2019]. **Note:** English Heritage has now separated into two organisations. If you are looking for information on listing, planning, grants or heritage research and advice, please visit **Historic England** (listed below).

**Estates Gazette** The UK's largest commercial property news team [online]. Available at: [www.egi.co.uk/Property/Home.aspx](http://www.egi.co.uk/Property/Home.aspx) [accessed 25 January 2019] incl. **Estate Gazette, News from the nationals** – Round-up of the top property stories with quick links ... [online].

**European Real Estate Society (ERES)** was established in 1994 to create an international real estate network between academics and professionals across Europe [online]. Further information is available at: [www.eres.org/](http://www.eres.org/) [accessed 25 January 2019]. **ERES Digital Library** [online] and available at <http://eres.scix.net/cgi-bin/works/Home> [accessed 25 January 2019]

## G [\[Back to A to Z\]](#)

**Great Buildings** [Online]. Available at: [www.greatbuildings.com](http://www.greatbuildings.com) [accessed 25 January 2019] provides a database of buildings around the world and across all historic periods. You can search the database by building names, place or architect name. It provides access to 3D models, photographic images and architectural drawings.

**Glenigan** [online]. Available at: [www.glenigan.com/](http://www.glenigan.com/) [accessed 25 January 2019] provides UK construction project sales leads, market analysis, forecasting, and company intelligence.

**The Green Construction Board** [online]. Further information is available at: [www.greenconstructionboard.org/](http://www.greenconstructionboard.org/) [accessed 25 January 2019] – The role of the GCB is to provide leadership and action to enable the whole value chain (clients, contractors, product manufacturers and suppliers) to become more environmentally, sustainable, more productive and better placed to exploit the growing global market.

**The Guardian, Housing network** – providing insight, advice and best practice from your community [online]. Available at: [www.guardian.co.uk/housing-network/](http://www.guardian.co.uk/housing-network/) [accessed 25 January 2019]

**The Guardian, Higher Education network** [online]. Available at: [www.guardian.co.uk/higher-education-network](http://www.guardian.co.uk/higher-education-network) [accessed 25 January 2019]

## H [\[Back to A to Z\]](#)

**Health and Safety Executive (HSE)** – HSE is the national independent watchdog for work-related health, safety and illness. HSE are an independent regulator and act in the public interest to reduce work-related death and serious injury across Great Britain's workplaces [online]. Available at: [www.hse.gov.uk/index.htm](http://www.hse.gov.uk/index.htm) [accessed 25 January 2019] and **HSE – Health & Safety in the construction industry** [online] is available @ [www.hse.gov.uk/construction/](http://www.hse.gov.uk/construction/) [accessed 25 January 2019]

**HELM (Historic Environment Local Management)** - provides accessible information, training and guidance to decision makers in local authorities, regional agencies and national organisations whose actions affect the historic environment. **Note:** You can now find all HELM web content on the **Historic England** website [online] and available @ [www.historicengland.org.uk/advice/planning/local-heritage/helm-redirect](http://www.historicengland.org.uk/advice/planning/local-heritage/helm-redirect) [accessed 25 January 2019].

**Heritage Alliance** - The largest coalition of heritage interests in England, the Heritage Alliance is the umbrella body for national and major regional Heritage NGOs [online]. Available at: [www.theheritagealliance.org.uk/](http://www.theheritagealliance.org.uk/) [accessed 25 January 2019]

**Heritage Alliance's Heritage Update E-Bulletin** [online]. Available at: [www.theheritagealliance.org.uk/heritage-update](http://www.theheritagealliance.org.uk/heritage-update) [accessed 25 January 2019]

**Heritage Update: the online edition** of the fortnightly Heritage Alliance's Heritage Update e-bulletin [online] and available at: [www.theheritagealliance.org.uk/update/](http://www.theheritagealliance.org.uk/update/) [accessed 25 January 2019]

**Heritage Help** - Created by the Joint Committee of the National Amenity Societies, Heritage Help offers information and advice on matters related to the management and protection of local historic environments [online]. Available at: <http://heritagehelp.org.uk> [accessed 25 January 2019]

**Higher Education Academy (HEA)** – The Higher Education Academy champions excellent learning and teaching in higher education. The HEA are a national and independent organisation, funded by the four UK HE funding bodies and by subscriptions and grants [online]. Available at: [www.heacademy.ac.uk/](http://www.heacademy.ac.uk/) [accessed 16 January 2019] and **HEA Knowledge HUB** [online] and available at: [www.heacademy.ac.uk/hub](http://www.heacademy.ac.uk/hub) [accessed 25 January 2019]

**Higher Education Empirical Research (HEER)** Database comprises summaries of the latest published research on a range of topics related to higher education [online]. Available at: <http://heer.qaa.ac.uk/> [accessed 25 January 2019]

**Historic England** is the public body that looks after England's historic environment. Historic England champion historic places, helping people understand, value and care for them. Further information is available at: [www.historicengland.org.uk/](http://www.historicengland.org.uk/) [accessed 25 January 2019]

**Home Builders Federation (HBF)** – HBF represents and serves its members in a range of ways including; Ensuring senior politicians and government officials are aware of housing issues and the challenges faced by our members; and working with Government officials to ensure housing policies are introduced that facilitate housing supply, in a way that is workable for the industry [online]. Available at: [www.hbf.co.uk/](http://www.hbf.co.uk/) [accessed 25 January 2019]

**House Building Careers** (part of HBF) – Here you will be able to learn about the home building industry and how it benefits you, your community and the country as a whole [online]. Further information available at: <http://housebuildingcareers.org.uk/> [accessed 25 January 2019]

**I** [[Back to A to Z](#)]

**ICDE (International Council for Open and Distance Education)** – ICDE is the leading global membership organisation for enhancing the quality of open, distance, flexible and online education, including e-Learning [online]. Available at: [www.icde.org/](http://www.icde.org/) [accessed 25 January 2019]

**ICE (Institution of Civil Engineers)** ICE is a registered charity that strives to promote and progress civil engineering [online]. Available at: [www.ice.org.uk/](http://www.ice.org.uk/) [accessed 25 January 2019]

**ICE Virtual Library** [online]. Available at: [www.icevirtuallibrary.com](http://www.icevirtuallibrary.com) [accessed 25 January 2019] is a free database that indexes all ICE journals.

**IHBC (Institute of Historic Building Conservation)** is the principal professional body for building conservation practitioners and historic environment specialists working in England, Northern Ireland, Scotland and Wales, with connections to the Republic of Ireland [online]. Available at: [www.ihbc.org.uk](http://www.ihbc.org.uk) [accessed 25 January 2019]

**Inclusive Design Hub for the Built Environment** is a collection of the latest guidance and best practice on inclusive design in the built environment (and a project of **The Design Council**) [online]. Available at: [www.designcouncil.org.uk/projects/inclusive-design-hub-built-environment](http://www.designcouncil.org.uk/projects/inclusive-design-hub-built-environment) [accessed 25 January 2019]

**INFABODE** connects its community of users with industry information from the Real Estate sector on one customisable online platform. Infabode reduces the amount of time people spend trying to access key information from the Real Estate industry. **INFABODE** [online]. Available at: [www.infabode.com/dashboard](http://www.infabode.com/dashboard) [accessed 25 January 2019]

**ITcon** – The **Journal of Information Technology in Construction** is a peer-reviewed scholarly journal on the use of IT in architecture, civil engineering and facility management [online] and available at: [www.itcon.org/](http://www.itcon.org/) [accessed 25 January 2019]

**IWFM (Institute of Workplace and Facilities Management)** – Formerly the British Institute of Facilities Management, BIFM is now the IWFM. The workplace has been incorporated into their new brand so that the status of the professional can help take careers further, regardless of specialism. IWFM [online]. Further information is available at: [www.iwfm.org.uk/](http://www.iwfm.org.uk/) [accessed 25 January 2019]

**IWFM Insights** – discover leading research and resources for the workplace and facilities management profession. IWFM [online]. Available at: [www.iwfm.org.uk/insight](http://www.iwfm.org.uk/insight) [accessed 25 January 2019]

**IWFM News** – discover the latest news affecting the profession and gain expert insight and advice. IWFM News [online]. Available at: <https://www.iwfm.org.uk/news> [accessed 25 January 2019]

**J** [[Back to A to Z](#)]

**JOLT (Journal of Online Learning and Teaching)** - The **MERLOT Journal of Online Learning and Teaching** is a peer-reviewed, open-access, online publication that aims to promote scholarship in the use of the Internet and web-based multimedia resource in higher education [online]. Available at MERLOT Journal of Online Teaching and Learning (JOLT): <http://jolt.merlot.org> and <http://jolt.merlot.org/currentissue.html> [accessed 25 January 2019]. **Note:** See MERLOT below.

**JournalTOCs** is the largest, free collection of scholarly journal Title of Contents (TOCs) [online]. Available at: [www.journaltoocs.ac.uk/index.php](http://www.journaltoocs.ac.uk/index.php) [accessed 25 January 2019]

**JEBE (Journal for Education in the Built Environment)** is the leading UK publication for pedagogy in the built environment disciplines [online]. Further information is available within the **Higher Education Academy (HEA) Knowledge HUB** [online] and available at: [www.heacademy.ac.uk/hub](http://www.heacademy.ac.uk/hub) [accessed 25 January 2019]

**JEBE JISC Content** – This website provides an introduction to digital collections designed for education. They are mainly aimed at university students, researchers and librarians but many of the online archives are open to anyone @ [www.jisc.ac.uk/website/legacy/jisc-content](http://www.jisc.ac.uk/website/legacy/jisc-content) [accessed 25 January 2019]. **Note:** The JISC Content portal closed on 1 July 2016, however links are provided to Archives Hub and Digital Resources from this link.

**JORUM** – After 13 years delivering and sharing content across the higher education, further education and skills sectors the Jorum service and website was retired on 30 September 2016. However, many of the open education resources (OER) that were available in Jorum, access to their **Archive** can be accessed via the JISC website [online]. Available at: [www.jisc.ac.uk/website/legacy/jorum](http://www.jisc.ac.uk/website/legacy/jorum) [accessed 25 January 2019] where you can also gain access to JISC's full digital resources offer.

**L** [[Back to A to Z](#)]

**Leeds Beckett University's - Built Environment [CeBE]** – CeBE has researched ways to reduce domestic energy use for nearly 20 years [online]. Available at: [www.leedsbeckett.ac.uk/research/research-areas/research-areas/built-environment-cebe/](http://www.leedsbeckett.ac.uk/research/research-areas/research-areas/built-environment-cebe/) [accessed 25 January 2019]. **CeBE's Virtual Site Gallery** contains construction details, case studies, site photographs, and plant details @ [www.leedsbeckett.ac.uk/teaching/vsite/gallery/](http://www.leedsbeckett.ac.uk/teaching/vsite/gallery/) [accessed 25 January 2019]

**Local Government Association (LGA)** - The LGA is the national voice of local government. They work with councils to support, promote and improve local government [online]. Available at: [www.local.gov.uk/](http://www.local.gov.uk/) [accessed 25 January 2019]

**LGA Knowledge Hub** - Knowledge Hub is the public sector's professional social network which helps people in local government connect and share online in a secure environment [online]. Available at: <https://khub.net/> [accessed 25 January 2019]

## M [\[Back to A to Z\]](#)

**MERLOT – Multimedia Educational Resource for Learning and Online Teaching.** The MERLOT project began in 1997, when the California State University Center for Distributed Learning (CSU-CDL) at [www.cdl.edu](http://www.cdl.edu) [accessed 25 January 2019] developed and provided free access to MERLOT at [www.merlot.org](http://www.merlot.org) [accessed 25 January 2019]. MERLOT is a curated collection of free and open online teaching, learning, and faculty development services contributed and used by an international education community.

**MERLOT Journal of Online Learning and Teaching** (JOLT and mentioned above) is a peer-reviewed, open-access, online publication that aims to promote scholarship in the use of the Internet and web-based multimedia resource in higher education [online]. Available at MERLOT Journal of Online Teaching and Learning (JOLT): <http://jolt.merlot.org> and <http://jolt.merlot.org/currentissue.html> [accessed 25 January 2019]. Note: The MERLOT community is joining with the Online Learning Consortium (OLC - formerly Sloan C and mentioned below) to expand scholarly research in the field of online education, with a merger of the Journal Online Learning (formerly JALN) and the Journal of Online Learning and Teaching (JOLT).

## N [\[Back to A to Z\]](#)

**National BIM (Building Information Modelling) Library**, the construction industry's free-to-use resource of the NBS (trading name of RIBA Enterprises Ltd) standard BIM content [online]. Available at: [www.thenbs.com/services/our-tools/nbs-national-bim-library](http://www.thenbs.com/services/our-tools/nbs-national-bim-library) [accessed 25 January 2019], NBS homepage is available at: [www.thenbs.com/](http://www.thenbs.com/) [accessed 25 January 2019], and NBS Knowledge [online] is available at: [www.thenbs.com/knowledge](http://www.thenbs.com/knowledge) [accessed 25 January 2019]

**National Building Specification (NBS) > Home > Publication Index** [online]. Available at: [www.thenbs.com/PublicationIndex/Publisher/Index?FirstLet=B](http://www.thenbs.com/PublicationIndex/Publisher/Index?FirstLet=B) [accessed 25 January 2019]

**National Skills Academy for Construction (NSAfC)** – The NSAfC is an industry-led framework supporting clients and contractors to identify, develop and realise employment and skills solutions across construction projects [online]. Available at: [www.citb.co.uk/national-skills-academy-for-construction/](http://www.citb.co.uk/national-skills-academy-for-construction/) [accessed 25 January 2019]. It is facilitated by the CITB – Construction Industry Training Board (see above).

**The National Trust** protect historic houses, gardens, mills, coastline, forests, woods, fens, beaches, farmland, moorland, islands, archaeological remains, nature reserves, villages and pubs [online]. Available at: [www.nationaltrust.org.uk/](http://www.nationaltrust.org.uk/) [accessed 25 January 2019]

**National Trust's Land use & planning** [online]. Available at: [www.nationaltrust.org.uk/what-we-do/big-issues/land-use-and-planning/](http://www.nationaltrust.org.uk/what-we-do/big-issues/land-use-and-planning/) [accessed 25 January 2019]

**NCE** [online]. Available at: [www.nce.co.uk](http://www.nce.co.uk) [accessed 25 January 2019] is the official website of the **New Civil Engineer**, a weekly magazine published for the ICE.

## O [\[Back to A to Z\]](#)

**OAJSE (Open Access Journals Search Engine)** – An Open Access e-Journal portal. Search for articles in Open Access journals from around the World (excl. India) [online]. Available at: [www.oajse.com/index.html](http://www.oajse.com/index.html) [accessed 25 January 2019]. Specialist subject areas including-Business and Management; Construction; Economics; Education; Law; Library and Information Science; and Social Sciences to name but a few. **Please note:** OAJSE has recently been upgraded.

**OECD (Organisation for Economic Cooperation and Development)** iLibrary is the online library of the OECD, featuring its books, papers and statistics and is the gateway to OECD's analysis and data. It replaced SourceOECD in July 2010 [online]. Available at: [www.oecd-ilibrary.org](http://www.oecd-ilibrary.org) [accessed 25 January 2019]

**OER Hub - Open Education Resources, Research Hub** – OER Hub gathers research on the impact of open education resources (OER) on learning and teaching practices [online]. Further information is available at: <http://oerhub.net/> [accessed 25 January 2019]

**Online Learning Consortium (OLC)** – The OLC is devoted to advanced quality online learning by providing professional development, instruction, best practice publications and guidance to educators, online learning professionals and organisations around the world. Further information is available at Online Learning Consortium [online] and available at: <http://onlinelearningconsortium.org/> [accessed 25 January 2019]

**OLC's Online Learning** – the official journal of the Online Learning Consortium [online]. Available at: <http://onlinelearningconsortium.org/read/> [accessed 25 January 2019]

**Open Praxis** – Open Praxis (published by the International Council for Open and Distance Education – ICDE) is a peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education [online]. Available at: <http://openpraxis.org/index.php/OpenPraxis/index> [accessed 25 January 2019]

**Open University (OU) UK** [online] and available at: [www.open.ac.uk/](http://www.open.ac.uk/) [accessed 25 January 2019]

**Open University (OU) UK, Institute of Education Technology** [online] and available at: [www.open.ac.uk/iet/main/](http://www.open.ac.uk/iet/main/) [accessed 25 January 2019]

**ORBEE (Open Resources in Built Environment Education)** contains a collection of free, high quality teaching and learning materials for online learning or use in the classroom [online].

**P** [\[Back to A to Z\]](#)

[www.Parliament.co.uk](http://www.Parliament.co.uk), **Research briefings** produced by the House of Commons Library, the House of Lords Library and the Parliamentary Office of Science and Technology (POST). Parliament, Parliamentary business, Publications and records, Research briefings [online]. Further information is available at: <http://researchbriefings.parliament.uk/> [accessed 25 January 2019]

**The Planning Portal** - the UK Government's online planning and building regulations resource for England and Wales [online]. Available at: [www.planningportal.co.uk/](http://www.planningportal.co.uk/) [accessed 25 January 2019]

**Planning Advisory Service (PAS)** – The Planning Advisory Service provide consultancy and peer support, training sessions and online resources to help local authorities understand and respond to planning reform [online]. Available at: [www.local.gov.uk/pas](http://www.local.gov.uk/pas) [accessed 25 January 2019].

**Note:** PAS have a new website

**Planning Officers Society (POS)** – The Planning Officers Society is the voice for public sector planning practitioners, pursuing good and effective planning practice within local government [online]. Available at: [www.planningofficers.org.uk/](http://www.planningofficers.org.uk/) [accessed 25 January 2019]

**The Prince's Foundation** was created by the merging of The Prince's Foundation for Building Community, The Prince's Regeneration Trust, The Great Steward of Scotland's Dumfries House Trust and The Prince's School of Traditional Arts in 2018. This combined force enables the

charity to achieve HRH's goal of creating harmonious communities, through three core tiers [online]. Available at: <https://princes-foundation.org> [accessed 25 January 2019]

**PPN (Property People's Network)** is open to all interested in land and property and provides a forum to network through a range of social activities and visits [online]. Available at: [www.pponline.co.uk/](http://www.pponline.co.uk/) [accessed 25 January 2019]

**Property Week** – Commercial property news [online]. Available at: [www.propertyweek.com/](http://www.propertyweek.com/) [accessed 25 January 2019]

## **R** [\[Back to A to Z\]](#)

**Regeneration and Renewal – Placemaking Resources incorporating *Regeneration & Renewal* magazine blog** [online]. Available at: <http://regen.net/home/> and [www.placemakingresource.com/](http://www.placemakingresource.com/) [accessed 25 January 2019]

**Revo – Retail. Property. Community** (formerly BCSC (British Council of Shopping Centres) is the professional body and authoritative voice for retail property and placemaking-led regeneration and for the management of and investment in shopping places [online]. Further information available at: [www.revocommunity.org/](http://www.revocommunity.org/) [accessed 25 January 2019]

**RICS (Royal Institution of Chartered Surveyors)** is an independent body committed to setting and upholding the highest standards of excellence and integrity in land, property and construction. See also Explore RICS [online]. Available at: [www.rics.org/uk/](http://www.rics.org/uk/) [accessed 25 January 2019]

**RICS > News & Insights** [online]. Available at: [www.rics.org/uk/news-insight/](http://www.rics.org/uk/news-insight/) [accessed 25 January 2019]

**RICS > Upholding Professional Standards** [online]. Available at: [www.rics.org/uk/upholding-professional-standards/](http://www.rics.org/uk/upholding-professional-standards/) [accessed 25 January 2019]

**RICS Library services** [online]. Available at: [www.rics.org/uk/footer/library-services/](http://www.rics.org/uk/footer/library-services/) [accessed 25 January 2019]

**RICS Library Online catalogue** – 2500 electronic documents selected and catalogued, plus books, magazine articles, law reports and transcripts [online]. Available at: <http://unicorn.rics.org/uhtbin/cgiirsi.exe/0/0/0/60/69/X> [accessed 25 January 2019]

**Royal Town and Planning Institute (RTPI)** – RTPI is the UK's leading planning body for spatial, sustainable and inclusive planning and is the largest planning institute in Europe with over 23,000 members. In 2014 they celebrate their Centenary [online]. Available at: [www.rtpi.org.uk/](http://www.rtpi.org.uk/) [accessed 25 January 2019]

## **S** [\[Back to A to Z\]](#)

**Savills Research** – Savills Research, Insight & Opinion provides advice and analysis to clients across the UK, with specialists in commercial, residential and rural property research [online] and available at: [www.savills.co.uk/insight-and-opinion/research.aspx](http://www.savills.co.uk/insight-and-opinion/research.aspx) [accessed 25 January 2019]

**Specification Online** – the free to use news and online products resource for specifiers working across the architectural and building sector [online] and available at: <http://specificationonline.co.uk> [accessed 25 January 2019]

**Supply Chain Sustainability School** – The Supply Chain Sustainability School represents a common approach to developing sustainability competence in the supply chain. It is a free resource available to any supplier and is part of their continued commitment to lead the industry into a brighter, more sustainable future. Supply Chain Sustainability School [online]. Further

information is available at: [www.supplychainschool.co.uk/uk/default-home-main.aspx](http://www.supplychainschool.co.uk/uk/default-home-main.aspx) [accessed 25 January 2019]

**T** [\[Back to A to Z\]](#)

**The Telegraph – Property and construction industry:** The latest news, analysis and share prices on Britain's biggest construction and property companies [online]. Available at: [www.telegraph.co.uk/property-and-construction-industry/](http://www.telegraph.co.uk/property-and-construction-industry/) [accessed 25 January 2019]

**U** [\[Back to A to Z\]](#)

**UCEM (University College of Estate Management)** is the leading provider of supported distance learning for real estate and construction professionals [online]. Available at: [www.ucem.ac.uk/](http://www.ucem.ac.uk/) [accessed 25 January 2019]

**University of the West of England (UWE), Centre for Architecture and Built Environment Research (CABER)** – The CABER seeks to develop innovative approaches, procedures, technologies and techniques that support the design, management, reconfiguration, maintenance and operation of buildings, their fabric and the environments they create. **Note:** CABER incorporates the previous Centre for Construction and Property Research (CPRC) CABER [online]. Available at: [www1.uwe.ac.uk/et/research/cprc.aspx](http://www1.uwe.ac.uk/et/research/cprc.aspx) [accessed 25 January 2019]

**UWE Educational Resources for the Built Environment (ERBE)** – The ERBE produces unique and highly respected educational resources for academic and professional use and incorporates the **Video Project** and the **Construction Website**. Further information can be found on the ERBE website [online] and available at: [www1.uwe.ac.uk/et/cp/erbe.aspx](http://www1.uwe.ac.uk/et/cp/erbe.aspx) [accessed 25 January 2019]

**UWE, ERBE, The Video Project** produces films on building construction, history and conservation. Established in 1992 and has produced over 30 films which are widely used nationally and internationally at all levels of academia, CPD and in professional practice [online]. Further information is available at: [www1.uwe.ac.uk/et/cp/erbe/constructionfilms.aspx](http://www1.uwe.ac.uk/et/cp/erbe/constructionfilms.aspx) [accessed 25 January 2019]

**UWE, ERBE, The Construction Website** is an interactive encyclopaedia covering construction, conservation and building history. It is expanded and revised on an annual basis [online]. Further information is available at: [www1.uwe.ac.uk/et/cp/erbe/constructionweb.aspx](http://www1.uwe.ac.uk/et/cp/erbe/constructionweb.aspx) [accessed 25 January 2019]

**UWE, Research Repository (CPRC)** – Providing immediate world-wide open access to all UWE's research output [online]. Available at: <http://eprints.uwe.ac.uk> [accessed 25 January 2019].

**V** [\[Back to A to Z\]](#)

**Virtual Training Suite** - This website provides a set of free Internet tutorials to help students develop their Internet research skills for a particular University course [online]. Available at: [www.vtstutorials.co.uk/](http://www.vtstutorials.co.uk/) [accessed 25 January 2019]

**Z** [\[Back to A to Z\]](#)

**ZETOC:** The monitoring and search service for global research publications, providing access to over 29,000 journals and more than 52 million article citations and conference papers through the British Library's electronic table of contents [online]. Available at: <http://zetoc.mimas.ac.uk/> [accessed 25 January 2019]

*The web-links provided were correct at time of compilation.*

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**Please note:** some web-links do not work on Internet Explorer and therefore you may need to use a PC with [Chrome](#), [Firefox](#) or **other browsers**.

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**University College of Estate Management** (UCEM), Horizons, 60 Queen's Road, RG1 4BS, UK – UK (Free): 0800 019 9697, International: +44 (0)118 921 4696, Email: [Click Here](#)



## Lucy

**Lucy Roper** (BSc (Hons), MBA, DipHE, ACILIP, AFHEA)  
Information Governance Manager  
+44 (0)118 921 4661 | [www.ucem.ac.uk/centenary](http://www.ucem.ac.uk/centenary)

**University College of Estate Management**  
Horizons, 60 Queen's Road, Reading, RG1 4BS

## Student Central

If you have any questions or queries you should submit them through Student Central (access via the VLE and Student Services) rather than by email, or contact a member of the Student Advice Team on +44 (0) 118 921 4696.

