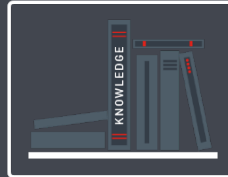


PLEASE NOTE: This document is over 125 pages long. Please consider the environment before printing this document. Please do not let over 100 pages put you off ... there is a contents page to help you select and easily navigate towards areas of most interest.

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

UCEM UNIVERSITY COLLEGE
OF ESTATE MANAGEMENT

Knowledge Foundations



January 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](#)

As this is the first Knowledge Foundations for 2019, can I take this opportunity to wish you all a very Happy, Healthy and Prosperous New Year!

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Other news

Things you need to know this week: Four shortlisted for Meridian Water homes - The biggest *Placemaking Resource* (incorporating *Regeneration + Renewal*) hitting the news are shared. In this article, Developers and housing associations are on shortlisted to be Enfield Council's partner for first housing on major site.

Case Study: Holding a festival to innovate in housing

Advice: Promoting meanwhile uses as part of regeneration

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

The top 10 news stories read in *Construction Manager* in 2018

Latest Data Protection News and Research:

- [Data laws made fit for the digital age.](#)
- General Data Protection Regulation (GDPR) – [What's new](#)
- [Information Commissioner's report brings the ICO's investigation into the use of data analytics in political campaigns up to date](#)
- *Democracy disrupted? Personal information and political influence* – [Latest report from the Information Commissioner's Office \(ICO\)](#)

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
- The Building Safety Programme – a comprehensive programme to ensure that residents of high-rise block of flats 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?

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

[Homes England sets out plan to hit building targets](#)

[Brexit Deal Agreement: What happens next?](#)

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

[Concerns for Skills Shortages in the 21st Century](#): A Review into the Construction Industry, Australia

[Soft skills for business success](#) – latest research from Deloitte Access Economics

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

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

[International Evidence Review on Housing Taxation](#) – RICS Research

[Tackling mental health in the workplace and wellbeing with the Construction Industry](#) – New app launched to support mental health of construction workers

[CBRE: Global Real Estate Market Outlook 2018](#) – Latest report explores key themes for major property sectors in 2018, in addition to macroeconomic conditions globally

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

[Royal Institution of Chartered Surveyors \(RICS\) 150th anniversary](#)

[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 latest research](#) reports and comments relating to policy and practice incl.

[Social Housing Green Paper: JRF and JRHT response](#)

[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* – December 2018
- [Commercial research](#) – Publication / *West End Investment Watch* – December 2018
- [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.

- Success for UCEM's first two apprentices
- Develop talent for your business - Further information on UCEM Apprenticeship programme
- **Need to know:** Apprenticeship levy FAQs
- UCEM Accreditation and recognition

[Access the 'Designing Buildings Wiki'](#) – the construction industry knowledge base incl. Featured articles, and news.

- Further information on 'Designing Buildings Wiki', [Student resources](#) including a wide range of resources aimed at students of the built environment, and an [A-Z of Construction industry institutes and associations](#)
- [Fragmentation of the UK construction industry](#)
- [Designing Buildings Wiki](#) – to celebrate reaching 5,000 articles, have a look at the most popular articles in each of the 32 subject areas covered.

The Construction Information Service - CIS Insight 12/2018 Edition –

- [CIS Insight \(12/2018 Edition\)](#) – 'Managing risks. Health and safety, business and finance'. A risk management plan is an integral of every successful construction project; for health and safety reasons as well as business and finance. This latest *CIS Insight* looks at the current (provisional) health and safety figures for 2017/2018 and revisit the importance of having a risk management plan,

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](#) – BIM Around the world – The UK move to International BIM standards

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

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

Read a free collection of research in Higher Education – from Wiley Education

Read the most talked about articles in Education!

[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

[How geological 3D modelling helps engineers design a hilly motorway in New Zealand](#)



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 \(November 2018\)](#)

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

GCR – *Global Construction Review*, '[UK construction profit warnings soar in first half of 2018](#)'

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: October 2018 and new orders July to September 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 – November / December 2018: The Great Unknown Issue
- Latest 2018 issue of [Contractors World International](#) (Vol 8, No 3) incl. Worldwide Panorama case studies, and Flat Roof Restored Efficiently

- Institute of Workplace and Facilities Management (IWFM) Digital Magazine – [FM World](#) December 2018: the latest issue
- The Heritage Alliance's latest '[Heritage Update](#)' e-Bulletin (2018) – The e-Bulletin provides current awareness and industry news over a number of built environment-related fields incl. Historic England publishes 'Legal corner: Historic buildings and reasonable adjustments'; 'DCMS publishes new 'Principals of selection for listing buildings'; 'How will climate change in the next 100 years?'; 'Government announces £1 million funding to support the improvement of digital skills in charities'; 'Raynsford Review of Planning in England' launched'; 'Regenerating high streets: the Open Doors Pilot Project', 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, 2nd 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](#)



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 & [#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 – RICS Red Book UK National Supplement

- Property Elite's latest blog post takes a closer look at the new RICS Red Book UK National Supplement, which will be a hot topic for the Spring 2019 RICS APC final assessment interviews. 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/ [accessed 21 December 2018]. 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/ [accessed 2 January 2019]

"The new title of *Knowledge Foundations* is to reflect the importance of laying the foundations upon which to build and increase knowledge that will help you to succeed and assist with Continual Professional Development (CPD)" (Roper 2019).

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Latest UCEM news

UCEM Alumna named UK Young Surveyor of the Year at RICS awards ceremony

A UCEM alumna won the main prize at the RICS Matrics Young Surveyor of the Year Awards on 30 November 2018.

Having won in the 'Quantity Surveying & Construction' category at the awards ceremony Laura Collins was called up to the stage again to collect the 'UK Young Surveyor of the Year' prize.

Laura, who graduated from UCEM's BSc (Hons) Quantity Surveying programme in 2010, is an Associate at Rider Levett Bucknall, and was the recipient of the Alumni of the Year award at last year's UCEM Property Awards.

Laura became a Chartered Surveyor at 23 and was the youngest person in her firm to be promoted to the role of Associate Director before reaching 30, with clients across the world taking note of her success in projects and seeking to work with her.

She commented: "I feel really honoured to have received the RICS Matrics awards and a bit overwhelmed! I am very grateful for all the support I have had in my career so far. Helping to inspire the next generation to work in our industry is really important to me so I was really pleased the peer mentor work with UCEM was recognised as part of the award."

As well as Laura's accolades at the ceremony, we were delighted that she was one of 11 UCEM apprentices and alumni nominated in the various categories for the event.

The RICS Matrics Young Surveyor of the Year Awards is an annual event which recognises and celebrates the most inspirational young surveying professionals in the UK.

For more about the event and further information please visit:

UCEM Website, News & Events, News (2018) – *UCEM alumna named UK Young Surveyor of the Year at RICS awards ceremony* – 7 December 2018 [online]. Available at: www.ucem.ac.uk/news-events/news/ucem-alumna-named-uk-young-surveyor-of-the-year-at-rics-awards-ceremony/ [accessed 2 January 2019]

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A day of firsts as nearly 1,000 graduands and guests converge in Reading for UCEM's Graduation ceremonies

Almost 1,000 graduands and their guests from around the world came together in Reading on 1st December 2018 for UCEM's two Graduation ceremonies.

In addition to the British attendees, graduands arrived from 21 overseas countries including Barbados, Cyprus, Hong Kong, Nigeria, Qatar and South Africa for the double celebration at Reading Town Hall – the first time UCEM has held two ceremonies in one day.

The morning's undergraduate ceremony saw 93 graduands attend with 278 guests before 134 postgraduands arrived with 402 guests for the afternoon ceremony. Those unable to attend were also able to watch the ceremonies as UCEM livestreamed the ceremonies on YouTube for the first time.

UCEM Deputy Principal, Jane Fawkes commented: "It was an honour to welcome the largest cohort of UCEM graduands to Reading today. Having an attendance exceeding the capacity of Reading Town Hall for the first time meant we had to host two ceremonies and despite the logistical challenges this posed, I am delighted that both events went smoothly.

"The sacrifices our students from all corners of the world have made to succeed on our programmes whilst balancing their career demands and personal lives never fail to impress and humble me. The sheer scale of today's events has made these ceremonies the best yet and I hope those viewing our livestream were able to appreciate the sheer joy of the occasion."

Among the guests in attendance at Reading Town Hall were the town's Mayor Cllr Debs Edwards and the Guests Speakers, Liz Peace CBE and Ben Bolgar, who spoke at the morning and afternoon ceremonies, respectively.

UCEM Principal, Ashley Wheaton gave the opening address of the ceremonies, telling the new sets of graduates: "Now that you are all qualified, I'd like you to consider it your professional responsibility to be the guardians of our substantial, precious and highly intricate Built Environment – whether it relates to future builds and newly constructed buildings; those buildings which are being restored, preserved or regenerated; those being maintained and updated, or just simply being used."

Liz Peace CBE, who is Chair of LandAid and formerly Chief Executive of the British Property Federation, discussed her career and told the room of undergraduates: "I believe that our often-misunderstood industry needs to work even harder to embrace change and to earn the trust of society.

"I am confident however that you, the new generation of property people, are going to be able to rise to that challenge. And I know that the UCEM training and education that you have undergone to get here will have

ensured that you look beyond the yield curve or the Internal Rate of Return to the wider contribution that that we can make to the places we inhabit.”

In concluding the eight lessons he has learnt through his career which he wanted to pass on to the afternoon audience, Prince’s Foundation Senior Director, Ben Bolger said: “Good luck and remember this one thing – what your generation builds will decide the future.”

Alison Jenkins was presented with The Chapman Adkin Award, awarded to a student who has shown special enterprise in completing their programme, during the undergraduate ceremony.

Prizes were also handed out to those with the best overall performance in their respective programme.

There are recording of our [undergraduate ceremony](#) and our [postgraduate ceremony](#) on our ‘University College of Estate Management’ YouTube channel.

Further information is available at:

UCEM Website, News & Events, News (2018) – *A day of firsts as nearly 1,000 graduands and guests converge in Reading for UCEM’s Graduation ceremonies* – 1 December 2018 [online]. Available at: www.ucem.ac.uk/news-events/news/a-day-of-firsts-as-nearly-1000-graduands-and-guests-converge-in-reading-for-ucems-graduation-ceremonies/ [accessed 2 January 2019]

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UCEM to livestream its Graduation ceremonies and launch its Instagram account on Saturday (1st December)

UCEM is delighted to announce that it will be livestreaming its two Graduation ceremonies for the first time on Saturday (1 December).

Graduands, family and friends all around the world who were unable to make the two ceremonies in Reading were able to watch both ceremonies via a YouTube link.

Coverage of the two ceremonies will also be provided on UCEM’s official Twitter account and newly launched Instagram account (both @StudyUCEM), with graduands encouraged to send Graduation photos and selfies on the social media channels using the #UCEMGraduation hashtag.

With live footage on YouTube, plus photos and live updates on Twitter and Instagram, those unable to attend can feel part of the day more than ever before.

UCEM Deputy Principal, Jane Fawkes, commented: “We have wanted to provide a livestreaming function for Graduation ceremonies for a while to cater for our worldwide student base.

“Now that have a dedicated Media Production Team in-house, we have been able to deliver on this ambition for the first time on Saturday and I hope all those graduands unable to attend will tune in wherever they are in the world.

“Our Graduation ceremonies are a highlight of the year for us. They are always joyous occasions and I am delighted we will be able to capture the events through our social media channels, so we can reach a wider audience on the day.”

The undergraduate ceremony takes place from 10.30-11.30am (GMT) and the postgraduate ceremony takes place from 2.30-3.30pm (GMT) go to our [YouTube channel](#) here. Updates throughout the day will be provided on our [Twitter](#) and Instagram channels.

Further information is available at:

UCEM Website, News & Events, News (2018) – *UCEM to livestream its Graduation ceremonies and launch its Instagram account on Saturday* (1 Dec) – 29 November 2018 [online]. Available at: www.ucem.ac.uk/news-events/news/ucem-to-livestream-its-graduation-ceremonies-and-launch-its-instagram-account-on-saturday/ [accessed 2 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 Armitt, 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 2 January 2019]

UCEM Website, News & Events, News (2018) – *UCEM’s widening participation ambitions boosted by acquisition of Built Environment digital network – 21 November 2018* [online]. Available at: www.ucem.ac.uk/news-events/news/ucems-widening-participation-ambitions-boosted-by-acquisition-of-built-environment-digital-network/ [accessed 2 January 2019]

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UCEM’s taught degree awarding powers renewed for a further six years

The Privy Council has renewed UCEM’s taught degree awarding powers (TDAP) for a further six years.

The higher education institution was informed of the renewal, which will come into force from 1 January 2019 and last until 31 December 2024, on Tuesday (13/11/2018).

The decision is a major boost for UCEM and reconfirms the high quality of its programmes and its value as one of the UK’s leading online higher education providers.

UCEM Deputy Principal, Jane Fawkes commented: “We are delighted to have had our taught degree awarding powers renewed for another six years.

“It is great recognition of the quality of our undergraduate and postgraduate degree programmes – a further endorsement following on from our recent successful QAA and Ofsted monitoring visits.

“The renewal of UCEM’s taught degree awarding powers is pivotal to the institution’s status as an independent higher education provider. We plan to submit our application for permanent degree awarding powers at the earliest available opportunity under the Higher Education and Research Act 2017.”

UCEM first gained taught degree awarding powers in 2012 when operating as The College of Estate Management. The powers continue to enable UCEM to validate its own programmes as an independent institution, having in years previously had its programmes validated by the University of Reading and the Open University.

Further information is also available at:

UCEM Website, News & Events, News (2018) – *UCEM’s taught degree awarding powers renewed for a further six years – 15 November 2018* [online]. Available at: www.ucem.ac.uk/news-events/news/ucems-taught-degree-awarding-powers-renewed-for-a-further-six-years/ [accessed 2 January 2019]

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UCEM’s centenary activity boosted by National Lottery grant



UCEM’s centenary plans have been given a huge boost after receiving a grant from the National Lottery.

A grant of £10,000 has been awarded by the Heritage Lottery Fund to UCEM in support of UCEM’s centenary events and activities next year (see publication date).

UCEM’s application included co-producing exhibitions with Reading Museum and the Museum of English Rural Life (MERL), a schools’ outreach programme and the publication of booklets in support of the project – all of which will now be brought to life following the grant award.

The project, entitled 'Celebrating 100 years of University College of Estate Management: Building Futures 1919-2019', will commemorate the institution's heritage and explore its social and historical impact across the century.

UCEM will celebrate 100 years of educating Built Environment professional with the local community via its museums, schools and its own centenary website. The grant also gives UCEM the means to examine the history behind the images and artefacts that be brought into public view for the first time.

The local community will be invited to learn about the education of a profession during wartime, including the introduction of correspondence courses for British Prisoners of War in Europe and three agricultural courses for members of the Women's Land Army through the funded centenary activities, as well as UCEM's place in Reading's history.

Jane Fawkes, UCEM's Deputy Principal, commented: "We are absolutely delighted to have had our application accepted by the Heritage Lottery Fund. This will enable us to kickstart an exciting programme of outreach activities in Reading to complement the wider centenary celebrations we have planned for 2019.

"Our thanks go to the players of the National Lottery for enabling us to commemorate our heritage, including the many people, from schoolchildren to those with a keen interest in local and wartime history, and everyone in-between!"

Michelle Roffe, Head of HLF South East said, "We are delighted to support this project, which, thanks to money raised by National Lottery players, will mean that more people will be able to get involved with, protect, and learn about the exciting heritage right on their doorstep."

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 Website, News & Events, News (2018) – *UCEM successful in Office for Students (OfS) registration application* – 27 September 2018 [online]. Available at: www.ucem.ac.uk/news-events/news/ucem-successful-in-office-for-students-registration-application/ [accessed 2 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 Website, News & Events, News (2018) – *UCEM's Built Environment Skills Summit report demands the UK rises to the challenge* – 31 January 2018 [online]. Available at: www.ucem.ac.uk/news-events/news/ucems-built-environment-skills-summit-report/ [accessed 2 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 2 January 2019].

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

UCEM Website, News & Events, News (2017) – *University College of Estate Management features in ‘Masterminds of Construction’ in association with ITN productions and the CIOB* [online]. Available at www.ucem.ac.uk/news-events/news/ucem-features-masterminds-construction-association-itn-productions-ciob/ [accessed 2 January 2019]

See also: CIOB – Chartered Institute of Building website [online]. Available at www.ciob.org/masterminds-construction [accessed 2 January 2019]

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

UCEM website @ www.ucem.ac.uk

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



<https://twitter.com/StudyUCEM> [accessed 2 January 2019],



<https://www.facebook.com/StudyUCEM> [accessed 2 January 2019],



<https://www.linkedin.com/company/university-college-of-estate-management> [accessed 2 January 2019],



<https://www.youtube.com/user/cembuildingfutures/videos> [accessed 2 January 2019].

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Other news

Things you need to know this week: Four shortlisted for Meridian Water homes

‘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, Developers and housing associations are on shortlist to be Enfield Council’s partner for first housing on major site.

This and other stories incl.

- **Four developers and housing associations have been shortlisted in the contest to deliver the first housing site at the planned Meridian Water development in Enfield, north London.** The shortlisted bidders aiming to be Enfield Council’s development partner on the first 725 home phase, called Meridian One, are Galliford Try, L&Q, Peabody and Redrow. Outline planning consent is already in place for Meridian One, which will see homes built alongside public squares, shops and leisure facilities around the new Meridian Water rail station, which is due to open next summer (see publication date). It is one of the first sites being brought forward for procurement via the Greater London Authority’s London development panel 2, which is intended to accelerate delivery. The council is also working to bring forward a site for 200 affordable homes at Meridian Two. These homes will be dedicated to makers and creators, who will use workspaces to be provided on the planned scheme’s lower floors.
- **A competition has been launched to masterplan the growth of Letchworth, the original garden city.** The competition focuses on master planning concepts for a 45-hectare site to the north of the Hertfordshire town, which was the creation of social reformer Ebenezer Howard. The winning concepts will inform the masterplan and build on a case study site, which is included in the North Hertfordshire Local Plan, and includes proposals for 900 homes, plus a primary school, community facility and retail space. The design competition is being managed by RIBA Competitions on behalf of the Letchworth Garden City Heritage Foundation, in partnership with the Town and Country Planning Association, Homes England, Anglian/Affinity

Water, Building Research Establishment and the University of Hertfordshire. **Further details are available via the source mentioned below.**

- **London's G15 group of major housing associations have made a commitment to work with London local authorities to build more affordable homes, in what they describe as a "united front".** This is one of a series of pledges from the G15, which include greater collaboration on land buying and greater use of modern methods of construction. The pledges were developed with input from local authority group London Councils and City Hall and are set out in the document, *Tackling the housing crisis together – our offer to London*.
- **Weymouth in Dorset and Whitehaven in Cumbria are among the seaside locations benefiting from almost £1 million of funding from the government's coastal revival fund.** The funding has gone to 25 projects that will restore historic buildings and coastal assets. In Weymouth, the funding will help to refurbish the Esplanade's seven listed shelters, while the two nineteenth lighthouses at the entrance to Whitehaven Harbour will receive support for repair works.
- **Birmingham City Council has appointed Lendlease as principal contractor for its planned Commonwealth Games Village in the Perry Barr area of the city.** The scheme will form part of the Perr Barr area regeneration. The development will house 6,500 athletes and officials during the games in 2022, before providing 1,400 homes. Proposals for the scheme, which are due to be considered by the council planning committee next months (see publication date), include an extra care village for older people, retail and commercial space, and a community centre.
- **Lessons from the past that can inform future placemaking are explored in a new publication produced by architect Stride Treglown.** The publication, *10 essays to shape future places*, features contributions from Louise Wyman, general manager engagement at government agency Homes England, James Scott, director with developer Urban&Civic, and other industry figures. **The publication is accessible via the source mentioned below.**

Related Links:

RIBA (n.d.) 'Re-Imagining the Garden City' [online]. Available at: <http://ribacompetitions.com/letchworthgardencity/> [accessed 2 January 2019]

G15 (n.d.) 'Our Offer to London' [online]. Available at: <https://g15.london/what-we-do/our-offer-to-london> [accessed 2 January 2019]

Stride Treglown (n.d.) Shaping Future Places, 117 years in the making ... *10 essays to shape future places* [online]. Available via: <https://stridetreglown.com/initiatives/shaping-future-places/essays/> [accessed 2 January 2019]

Source: **Placemaking Resource** (incorporating *Regeneration + Renewal*), Smit, J., 28 November 2018, *Need to know: Four shortlisted for Meridian Water homes* [online]. Further information available at: www.placemakingresource.com/article/1519800/need-know-four-shortlisted-meridian-water-homes [accessed 2 January 2019]

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Case study: Holding a festival to innovate in housing

- The Bristol Housing Festival is a five-year experiment involving city players and general public to find solutions to the housing crisis, writes the author of this article.

From London's 1930s built Isokon flats to housing charity Joseph Rowntree Foundation's City-Centre Apartments for Single People at Affordable Rents, there have been numerous experiments in housebuilding and different ways of living. Many exercises in housebuilding innovation, however, seem to make a little or no impact on the design and delivery of mass-market homes.

But with a shortage of new homes and skills to build them, and demographic, social and technological change affecting many aspects of our lives, the time could be right for big thinking on housebuilding innovation. That's what Bristol has set out to achieve with the Bristol Housing Festival. The festival launched on 19 October (see publication day) with an exhibition, which runs to 4 November, but that is only the start of a five-year focus on housing innovation that will see test homes developed on several sites across the city to inform urban housebuilding. The festival is a product of Bristol One City, the collaborative and place-based approach adopted by Bristol City Council to address city challenges. It is supported by Bristol City Council, community interest company Bristol and Bath Regional Capital, West of England Combined Authority and social reform body The Shaftesbury Partnership.

The challenge

“We have systematic failure in housing – it’s not working for this city, for our nation and around the world,” says Jez Sweetland, the festival’s project lead. “We need courage to work together to think differently and prototype and start again.”

The broad-ranging festival, with its Bristol One City approach, offers the potential for greater reach, collaboration and impact than the individual test projects more usually seen in housebuilding. Sweetland says, “A lot of the expertise I’ve looked at is in industry solos, and a lot of ideas don’t fit into existing social or planning systems/ The festival socialises ideas and makes a space for a conversation, with the city council being an enabling force for change.”

That conversation’s participants go beyond housing professionals to all the city’s players and the general public. “It is important we do this as a city,” says Sweetland. “The housing crisis affects everybody, so we have to engage the wide city.” Similarly, the conversation is not only about building more homes, but about how housing can help to enable health and wellbeing or the rehabilitation of offenders. “The outcomes here are a broader vision of healthier and more resilient cities,” stresses Sweetland.

Making the festival happen has been a challenge, and the city council was only able to secure sign off for the event eight weeks before the launch, says Sweetland, adding, “Once the city stepped in we were able to engage with sponsors.” The festival launched with a list of sponsors including architect BDP, developer YTL developments, government agency Homes England, law firms Bevan Brittan and Burges Salmon, and locally based tech business like Solverboard.

The solution

The festival’s free exhibition showcases several innovations, including homes from:

- ZED Pods: a sustainable modular home, designed for key workers. Homes are super-insulated and designed for low energy consumption
- BDP: a factory construction eco-home designed to fit into small urban spaces, such as garage plots
- ISO Spaces: a one-bedroom home created in a recycled shipping container
- Totally Modular: a two-bedroom, four-person, steel framed modular house, which typically can be built in less than 600 hours.

Other exhibitors include modelmaker Amalgam and Bristol is Open, an initiative of the council and the University of Bristol that is applying smart city innovation to urban challenges.

Alongside the exhibition, there is a string of events, including talks, seminars, resident meetings, and co-creation sessions. Over the school half-term holiday week, there were special events for children, such as the city blocks game, run by University of Bristol’s design and manufacturing futures lab. This gave children the chance to build their own Lego™ city, scan the design and explore the end result in virtual reality.

At the festival’s launch the city council pledged to make sites available across the city to host small-scale innovative and affordable homes schemes, either temporarily or permanently. Some of the sites would normally be seen as undeliverable using conventional housing development methods, as councillor Paul Smith, cabinet member for housing at Bristol City Council says, “Some will be between, on top of even underneath existing buildings.”

The council has started the programme by investing in six of the modular ZED Pods for key workers, but future schemes could explore very different ways of living, such as inter-generational living or co-living.

Learning to date

The festival has been enthusiastically received by the general public, with more than 3,000 people visiting the exhibition in its first five days. The exhibition was also visited by a delegation from the Global Parliament of Mayors, as Bristol mayor Marvin Rees hosted in 2018 annual summit as the festival launched.

The initiative is generating broader interest, notably from the city of Boston, says Sweetland, but the focus right now is firmly on Bristol, he adds. “We want to move Bristol forward. Each city will have its organic and specific problems and they can learn from one another.”

The festival is currently working with universities and other partners to ensure measurement and research are embedded into future building projects, to gather learning. That learning will ultimately feed through to larger scale development across the city, and there is an acceptance that not every experiment will be successful. “Some might fail – and in politics that’s a very difficult thing to do,” acknowledges Sweetland. But it’s a challenge that needs to be faced, he emphasises. “A city has a lead. By deploying research and development we may start to uncover progress.”

Source: Placemaking Resource (incorporating *Regeneration + Renewal*), Smit J, 31 October 2018, *Case Study: Holding a festival to innovate in housing* [online]. Further information available at:

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Advice: Promoting the digital high street

- Digital technology can improve the high street shopping experience, but it's important also to work with independent retailers to maximise online promotion, writes the author of this article.

Online retailing has had a major impact on the high street, but it is possible to harness the power of the web and digital technology to promote local retailing. This technology can work at several levels, from attracting shoppers to high street businesses, through to improving their experience getting there and while they're there, says Fiona Ellis-Chadwick, senior lecturer in retail management at Loughborough University.

Here are three key points to consider when seeking to use digital technology to promote the high street.

1. Use digital technology to manage the high street experience

Some local authorities are using digital technology to make it easier for shoppers to navigate the high street, says Martin Blackwell, and independent place management consultant. He pointed to the use of smart technology by Norwich's Business Improvement District to manage the traffic. "They have a system that can manage the traffic lights if there are particular pinch points or hold-ups," he says. The flow of traffic can then be eased by varying the phasing of the lights, he adds. He points out that the technology for developing a smart traffic light system is now relatively cheap.

Some business improvements districts (BIDs) have developed a mobile phone app that gives real-time information on the availability of parking spaces. This means that the shopper knows exactly where they can park when coming into town, says Chris Turner, chief executive of British BISs, which supports BIDs in England.

2. Create a portal for all businesses in the high street

Some town centre management organisations have developed web portals that can signpost shoppers to businesses in the high street. Chris Hurst, strategic director at town centre consultancy Clockwork City, points to Ashford Town Team's website, which offers a page to all the town centre businesses as well as integrated mapping and social media and events promotion. Turner says the portals can also be used by local authorities to provide information about their services. He points to Oxford where this is being planned.

Creating and maintaining a website for a town centre is labour intensive, says consultant Blackwell. "Details have to be collected from businesses and then the site has to be managed and kept up-to-date." Most of the large retailers in a city have sophisticated websites and don't need another local one, he points out.

3. Focus on supporting independents

A local web portal can help independent businesses, says Loughborough University's Ellis-Chadwick. She says that developing a website can be effective in bringing independent retailers in a street or neighbourhood together. She points to Bishops Thorpe Road in York, which was a neglected part of the city and where the local traders got together to improve the environment. "Putting together a website highlighting the neighbourhood offer was part of the regeneration initiative," she says.

Many independent businesses do not have a web presence, points out Aaron Corsi, project manager and digital lead at Warwickshire County Council. A study by Loughborough University revealed that in the country's market towns, a very low proportion of independent businesses had a website, says Corsi. "Nearly 3,800 businesses were closed in the virtual world," he says. The country's towns network is, therefore, focusing on providing training and support for those businesses to develop a basic web presence. The aims are not to promote web sales but to help them use the web to raise awareness of their businesses and to attract shoppers to them. The courses have brought together the retailers in the different towns and they have shared concerns about their town centres and sought to coordinate their offer, says Corsi.

Further information is available at:

Kochan B (2018), 'Advice: Promoting the digital high street', Placemaking Resource, *Incorporating Regeneration and Renewal* [online], 26 November. Available at: www.placemakingresource.com/article/1519554/advice-promoting-digital-high-street [accessed 2 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/ [accessed 2 January 2019]

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The top 10 news stories read in *Construction Manager* in 2018

- 2018 started with dramatic news of one of the UK's biggest-ever corporate failures, as Carillion called in the liquidators

The fallout, including a parliamentary inquiry, numerous stalled projects around the country, and attempts to reassess how quickly (or slowly) major contractors pay their supply chains, dominated the news agenda for much of the rest of 2018.

Meanwhile, Dame Judith Hackitt's final report following her independent review in the Building Regulations and fire safety in May (see publication date) and with it came a clamor for combustible materials on high-rise buildings to be banned – a ban which the government brought into effect at the end of 2018. While the news about the report itself was very widely read, so were articles relating to how to implement some of the changes Hackitt did (or did not) recommend, around procurement, safety, and quality management.

Then later in the year came the news that the new £800m Tottenham Hotspur stadium, project managed by Mace, was to be delayed. It and subsequent stories proved very popular. While many readers were interested in the details behind the delay, as well as finding out more about how the stadium's innovative retractable pitch works, it perhaps also suggests that there are more than a few Spurs fans among *Construction Manager's* readership.

More generally, issues around quality management and payment caught readers' imagination, as did technical innovations and unusual kit such as the world's biggest crane, being employed on the Hinkley Point nuclear power plant in Somerset.

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

- 1) 'Catastrophic' losses forecast for Carillion suppliers
- 2) Hackitt: Eight key recommendations
- 3) Mace in 'urgent' meetings over Spurs stadium delay
- 4) World's largest crane readies for Hinkley Point
- 5) Report slams Kier over defect-riddled leisure centre
- 6) Didcot collapse: Coleman 'clear' on cause
- 7) Contractor and developer jailed in bribery case
- 8) QM inadequate say 75% in CIOB survey
- 9) Kier a 'poor payer', MPs told
- 10) Convicted construction boss ordered to pay £3.5m to HMRC

Gerrard N (2018) 'The top 10 stories you read in CM in 2018', *Construction Manager* [online], 18 December. Available at: www.constructionmanagemagazine.com/news/top-10-stories-you-read-cm-2018/ [accessed 2 January 2019]

Related Links:

GCR (2018) 'A rocky road: A look back at 2018's most-read stories' [online] GCR - *Global Construction Review* [online]. Available at: www.globalconstructionreview.com/news/rocky-road-look-back-2018s-most-read-stories/ [accessed 2 January 2019]

- GCR took a break over the holiday period, and wished its growing readership a very Happy Christmas and New Year – a happier new year than 2018, anyway, overshadowed as it was by the epoch-making collapse of Carillion. In a spirit of reflection GCR offer an overview with the most-read articles in each month.

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Latest Data Protection News & Research:

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. People will now be able to move their personal data between service providers such as WhatsApp and Facebook to rival social media platforms. This includes taking account settings and information, including contacts, profile photos, and group names.

People will have the right for their personal data held by companies to be erased when they turn 18. They will also be able to demand an organisation discloses all the personal data it holds on them more easily and, for the first time, for free.

The Data Protection Act 2018 will force companies to use people's personal data responsibly or risk millions of pounds in fines. These could run into billions of pounds and be as much as four per cent of a firm's global turnover.

The Act will support UK businesses and organisations as we prepare to leave the European Union. People will be able to:

- Get more information about how organisations will use and share their data

- Withdraw consent for the use of their personal data more easily
- Require an organisation to disclose the personal data it holds on them more easily – and, for the first time, for free
- Move data between service providers such as rival social media platforms
- Benefit from tougher cybersecurity rules, and the right to be told when their data is breached, and the breach is sufficiently serious
- Ask for their personal data held by companies to be erased in a wider range of circumstances, including when they turn 18
- Benefit from a new age-appropriate design code that will help website understand the needs of children and young people online.

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.

This and further information can be found at:

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 [accessed 2 January 2019].

WATCH: What is GDPR? [video]. Available via the above-mentioned link. Duration [1m 53s]

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 with the General Data Protection Regulation (GDPR). 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/ [accessed 2 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:

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 (2018) '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 2 January 2019]

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Information Commissioner's report brings the ICO's investigation into the use of data analytics in political campaigns up to date

- When the UK's Information Commissioner's Office (ICO) into the use of data analytics for political purposes in May 2017, they had little idea of what was to come.

Further information is available at:

Information Commissioner's Office (2018) 'Information Commissioner's report brings the ICO's investigation into the use of data analytics in political campaigns up to date', ICO [online], 6 November Available at: <https://ico.org.uk/about-the-ico/news-and-events/news-and-blogs/2018/11/ico-s-investigation-into-the-use-of-data-analytics-in-political-campaigns/> [accessed 2 January 2019]

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Democracy disrupted? Personal information and political influence – Latest report from the Information Commissioner's Office (ICO)

Political parties and campaign groups in the UK and beyond are increasingly using personal information and sophisticated analytics techniques to target voters. The behavioural models widely used in the commercial sector have in recent years been adopted in political campaigning.

But to retain the trust and confidence of electorates and the integrity of the elections themselves, all the organisations involved in political campaigning must use personal information and these techniques in ways that are transparent, understood by people and lawful.

This report intends to 'draw back the curtain' on how personal information is used in modern political campaigns. It summarises the policy findings from our data analytics investigation, making recommendation in respect of the transparent and lawful use of data analytics in political campaigns in the future.

This and further information is available at:

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 2 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/ [accessed 2 January 2019]

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New 'Building Safety Programme' published

– a comprehensive programme to ensure that residents of high-rise block of flats are safe and feel safe, now and in the future.

Following the Grenfell Tower fire in June 2017, the Government took steps to enhance safety measures in buildings. The Ministry of Housing, Communities and Local Government has established the '**Building Safety Programme**' especially to cover high-rise residential buildings over 18 metres.

Contents of this programme incl.

- Overview,
- Independent expert advisory panel,
- Advice notes,
- Independent Review of Building Regulations and Fire Safety by Dame Judith Hackitt, and
- Local authority and housing association funding for fire safety work

From the below mentioned link you can also gain access to further information on 'Building Regulations'; 'Fire prevention and rescue', and 'Housing'.

Related Link:

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 [accessed 2 January 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 383**, 30 November 2018, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 January 2019].

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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, Part 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 [accessed 2 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 [accessed 2 January 2019]

Further Related Links:

Designing Buildings.co.uk Wiki, (2018) 'CIC response to Hackitt report' [online], last edited 6 August 2018.

Further information is available at: https://www.designingbuildings.co.uk/wiki/CIC_response_to_Hackitt_report [accessed 2 January 2019]

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 [accessed 2 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/ [accessed 2 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/ [accessed 2 January 2019]

Global Construction Review, (2017) 'UK government under attack for failing to fund sprinkler retrofits', *Global Construction Review* [online], 23 October. Available at: www.globalconstructionreview.com/news/uk-government-under-attack-failing-fund-sprinkler-/#read [accessed 2 January 2019]

GOV.UK (2017), Department for Communities and Local Government and The Rt Hon Sajid Javid MP, Part of: Grenfell Tower, Published: 28 July 2017, Press release: *Independent review of building regulations and fire safety* [online]. Available at: www.gov.uk/government/news/independent-review-of-building-regulations-and-fire-safety [accessed 2 January 2019]

Designing Buildings.co.uk Wiki, (2018) 'Grenfell Towner, latest developments – April 2018' [online], last edited 15 March 2018. Further information is available at: www.designingbuildings.co.uk/wiki/Home_and www.designingbuildings.co.uk/wiki/Grenfell_Tower_Inquiry#Timetable [accessed 2 January 2019]

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The future of retail

- In 2018 it seems barely a month passes without a much-loved high-street retailer either closing down or shutting dozens of stores, with casualties including Maplin and Toys R Us. But ...

Are bricks-and-mortar shops really doomed, as the headlines seem to suggest?

Retail remains the single largest private sector employer in the UK, with one in 10 people working in retail, and annual sales totalling a staggering £258bn. Despite the alarming headlines on the demise of the British high street, online sales still only account for 17pc of total retail sales in the UK, according to the Office for National Statistics.

Britain's retail landscape is dominated by supermarkets such as Tesco, Sainsbury's, Asda and Morrisons, following by department stores such as John Lewis. Technology retailer Dixons Carphone also makes the top 10, along with Boots, according to market research firm Global Data. But Amazon muscled into the top five this year (behind the supermarkets), and now accounts for £4 in every £100 spent in the UK.

The ongoing shift towards online, dovetailing with the growing experience economy, is impacting many traditional retailers who face inflexible leases, high rents and excess properties. Bookshops are also adversely affected, with only half the number there were a decade ago, according to the Centre for Economics and Business Research. Even loyalty cards are no longer as powerful a draw as they once were, with just 6pc of customers saying they would stop going to a store if it dropped its loyalty card, according to analyst TCC Global. But while retailers are under increasing pressure, the picture is not bleak for all. Grocery retailers are experiencing robust growth in an inflationary environment, while the nimbler, pure-online players continue to grow market share. Many also argue that customers will want the experience of going to a shop, a view shared by Alan Hawkins, CEO of the British Independent Retailers Association (BIRA).

"All retailers, no matter what sector they work in, face day-to-day challenges and burdens on their business," says Mr Hawkins. "The consumer is king and if they want to buy online, then that is their call. But from our observations consumers still want the experience and level of service found when shopping in a bricks-and-mortar store."

New technologies – from Augmented Reality (AR) to robotics – are helping retailers to turn the tide, experts have told the Telegraph, with many now combining online and offline, digital and physical, to survive in turbulent times.

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 [accessed 2 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 [accessed 2 January 2019]

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Homes England sets out plan to hit building targets

- Modern methods of construction, the industry approved term for prefabrication, is set to be promoted by Homes England in its new five-year plan.

The government house-building agency also intends to provide financial support for smaller developers. Home England, previously the Homes & Communities Agency, has published a five-year plan setting out what it plans to do to help the government meet its target of 300,000 new homes a year being built across the UK by the mid-2020s.

The plan lists five priorities: unlocking land, unlocking investment, increasing productivity, driving market resilience and supporting local areas. The push for prefabrication comes under 'increasing productivity'. A requirement to use modern methods of construction (MMC) will be incorporated in Homes England leases, it says.

In the short term, Homes England plans to "support pilot projects where there is developer interest in testing MMC to learn lessons and understand costs". It will use development finance to encourage developers to put up prefabs to increase the capacity of the off-site manufacturing industry. Support for SME builders comes under 'driving market resilience'. The five-year plan says: "We'll create a more resilient and competitive market by supporting smaller builders and new entrants and promoting better design and higher quality homes."

Over the next two years Home England will provide up to £2.5bn development finance to smaller builders who are unable to access funding from banks through the £4.5bn Home Building Fund, it says. It will launch a Housing Delivery Fund with Barclays to provide £1bn of development finance to increase the pace and volume of housing delivery and support smaller builders. And it will increase its investment with Lloyds Bank in the Housing Growth Partnership to provide up to £220m of equity finance for smaller builders. Tender and legal documents will also be made simpler on smaller sites to make the bidding process easier, it says.

When it comes to unlocking land for building on, early priorities include: progressing enabling infrastructure works on major developments at Northstowe in Devon and Burgess Hill in Sussex; acquiring land and investing in enabling infrastructure to bring forward developable sites where the market will not, using the £1bn land assembly fund; and continuing the disposal of surplus public-sector land.

Homes England also plans to pilot a direct commissioning contracting approach under which risk and reward is shared with partners – in return for a significant increase in the pace of delivery – to deliver more than 1,300 starts on seven sites in the next two years (see publication date). In the longer term, Homes England plans to deliver at least 2,000 starts on site by March 2023, 4,000 starts a year by the mid-2020s and 23,000 completions by March 2030 through its land assembly fund, which should be self-financing by March 2023. It also plans to unlock public and private land with capacity for up to 27,000 homes by funding on-site infrastructure and land remediation through its small sites fund and use its local authority accelerated construction programme to bring forward surplus council land for up to 32,000 homes.

Chief executive Nick Walkley said: The new Homes England is all about making homes happen – and our new 5-year plan sets out our ambitious new approach. We are committing to boosting housing supply, productivity, innovation, quality, skills and modern methods of construction to help make a more diverse and resilient market.

In return, we are calling for partners and the wider industry who share our ambition to challenge traditional norms and build better homes faster.”

James Brokenshire, currently secretary of state for housing (see publication date), said “This government is committed to delivering 300,000 homes a year by the mid-2020s and help more people get on the housing ladder. Homes England is at the heart of these plans. I welcome their comprehensive vision that sets out how through their powers and expertise they will maximise Government investment to deliver the homes communities needs.”

The five-year strategic plan follows this week’s budget announcement of seven new strategic partnerships with housing associations, expected to deliver an additional 13,475 affordable homes by March 2022. The seven new partnerships are with: Platform Housing Group (following the merger of Fortis and Waterloo Housing Associations on the 1st October); Guinness and Stonewater (in partnership); Optivo; Southern Housing Group; Orbit; Thirteen; and Vivid.

This is in addition to the first eight strategic partnership deals announced in July 2018, bringing the total number of additional affordable homes that will be delivered to 27,755.

Source: The Construction Index (2018) ‘Homes England sets out plan to hit building targets’, The Construction Index [online], 31 October. Available at: www.theconstructionindex.co.uk/news/view/homes-england-sets-out-plan-to-hit-building-targets [accessed 2 January 2019]

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Brexit Deal Agreement: What happens next?

- In anticipation of facing a crushing defeat, the prime minister Theresa May cancelled the Commons’ ‘meaningful vote’ on her Brexit deal and will now go back to the EU and ask for changes.

The publications of the May’s Brexit deal in November 2018 has brought about political turmoil, bringing further uncertainty around the future UK-EU relationship. Whilst speculative, there could be other political implications which land, property and construction surveyors need to contemplate as the period of uncertainty continues. It will be difficult for the government to continue “business as usual”. The scenario setting below may assist members’ with developing their business strategies from now through to 2020 and beyond.

The ‘Meaningful’ Vote - Before the crucial Brexit vote was due to take place, the prime minister has conceded that, as it stands, her Brexit deal “would be rejected by a significant margin” if MPs voted on it. Theresa May will now go back to Brussels to get “reassurances” from the EU on the Northern Ireland backstop – the main bone of contention amongst MPs across the parties. A large number of Conservative MPs had been planning to join forces with Labour, the SNP, the Lib Dems, Plaid Cymru and the DUP to vote down Mrs May’s deal because of the proposed Northern Ireland backstop. Rebel Tory MPs have said it is unacceptable as it would result in new regulatory barriers between Northern Ireland and the rest of the UK which could continue indefinitely because the UK would not be able to leave without the EU’s approval. It is now unclear when the Commons vote on the Brexit deal will be held at all. This will depend on how long fresh talks with the EU last. However, Mrs May has suggested the final deadline for any vote is 21 January 2019. She went on to say that the UK’s departure date from the EU was written into law and the government was “committed” to delivering on it.

Article 50 extension - The UK is due to leave the EU on 29 March 2019 with or without a deal. This date is exactly two years since Theresa May’s intention to do so was outlined in writing. From the off, uncertainty around Brexit has been referenced in all our sectoral market surveys as a concern; and as we approach Brexit Day, sentiment received from the survey respondents is becoming more and more common. It is very apparent that the prime minister wants an affable and orderly departure from the EU on this date. The current deal includes the Rights of EU and British expats, and a divorce bill of up to £39bn. Brexit day is to be followed by a 21-month transition period, during which further trade talks would take place. If no deal is met during this time frame, the transition phase could be extended which could potentially inhibit and stable market conditions.

A People’s Vote - A ‘Referendum’ was always a concern to RICS, but this was based on whether the referendum returned as a result that was an unclear, marginal or based on a low turnout vote. Admittedly, the margin was smaller than some had hoped for, and there were large disparities in the votes across the UK’s constituent countries and regions. This has made negotiation conditions turbulent for Brexit, from both a domestic and international viewpoint. Many opposition MPs have called for a second referendum on the deal which, if accepted by government, could add to the political instability and make further discussions difficult to navigate.

Furthermore, organising another referendum requires time – which at present is not a luxury – and could mean a delayed Brexit Day and a second, potentially more vitriolic, campaign period. In this event, the UK would continue to see uncertainty across the built environment and contribute to investors' overall risk assessment of the UK.

Leadership challenge / Vote of No Confidence - The numerous ministerial and other political resignations are because the tabled Brexit deal does not live up to expectations. This could be considered a reflection of Conservative Party sentiment towards the prime minister. Conservative party members have been vocal in their views about the deal and could, if the right conditions present themselves and there is the required level of support, lodge a leadership challenge – this would require 48 Conservative MPs to table a vote of no confidence. If the numbers were to be achieved, the prime minister would need 158 Conservative members to support her in such a vote.

General Election - The Labour Party had been hoping to force a general election if the prime minister had lost the planned meaningful vote, by tabling a vote of no confidence. Following Theresa May's announcement that the vote would be delayed, Labour leader Jeremy Corbyn has urged the prime minister to stand down. But Labour has rejected calls from the SNP and the Lib Dems to hold a vote of no confidence in the prime minister at this stage. The Party has suggested that it will put down a motion of no confidence when and if it judges that such a move will be successful – possibly if the Brexit deal comes back to Parliament without any significant changes.

Further information is available at:

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/ [accessed 2 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/ [accessed 2 January 2019]

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Concerns for Skills Shortages in the 21st 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 21st 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 2 January 2019]



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Soft skills for business success – Building Australia's future workforce

- Soft skill-intensive occupations will account for two-thirds of all jobs by 2030. DeakinCo. Asked Deloitte Access Economics to assess the importance of obtaining and measuring soft skills to better understand areas that need to be improved in the Australian workforce and businesses.

Summary

A workforce with a broad mix of skills is crucial for business success and national prosperity. Businesses with more skilled staff have higher rate of innovation and productivity. And academic literature has found a consistent relationship between human capital and economic growth.

But do we fully understand the workforce skills necessary for success? Soft skills are also referred to as employability skills, enterprise skills and they are transferable between industries and occupations. They include things like communication, teamwork, and problems solving, as well as emotional judgement, professional ethics and global citizenship.

DeakinCo. Asked Deloitte Access Economics to assess the importance of obtaining and measuring soft skills to better understand areas that need to be improve in Australian workforce and businesses. To do this, Deloitte Access Economics consulted with key industry experts and analysed new detailed data from job matching tools, LinkedIn and Workable, to assess both international and domestic demand for these skills and how well positioned Australians are to provide them.

As technology, globalisation and demographic shifts continue to shape how businesses compete, the importance of soft skills will grow. In this report, Deloitte Access Economics forecasts that soft skill intensive occupations will account for two-thirds of all jobs by 2030, compared to half of all jobs in 2000. The number of jobs in soft-skill intensive occupations is expected to grow at 2.5 times the rate of jobs in other occupations.

Businesses recognise the importance of building soft skills in their employees in order to harness the broader benefits. We estimate that businesses spend \$4 billion every year on training, and another \$7 billion each year on recruiting the right staff. Yet without objectively and comprehensively measuring soft skills, it is difficult to measure the impact of this investment.

Given the importance of soft skills, we must continue to build our understanding of how we perform. Effectively investing in improving our soft skills will bring significant benefits – to individuals, business and our economy.

To access and download the report, visit

Source: Deloitte (2017) 'Soft skills for business success' [online]. Available at:

www2.deloitte.com/au/en/pages/economics/articles/soft-skills-business-success.html [accessed 2 January 2019]

Related Link:

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/ [accessed 2 January 2019]

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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 [accessed 2 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 **11 December 2018**, the topics covered include.

- **Residential property** – incl. [International Evidence Review on Housing Taxation](#) (see further information below)
- **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/ [accessed 2 January 2019]. [Back to top](#)

International Evidence Review on Housing Taxation

- Two features of economic life in the UK that provoke popular and political debate are housing and taxation. As individual topics, both are multi-faceted. However, combining the two appears to raise, rather than reduce, the number of issues for debate.

Housing remains high on the policy agenda, and over the past 15 years (see publication date) the government has commissioned no less than three seminal reviews considering housing supply (Barker 2004), mortgage markets (Miles 2004) and broader tax system reform (Mirrless 2011).

This report examines three different aspects of housing taxation, in terms of their neutrality, fairness, transparency, efficiency and practicality. The first area is a property transfer tax (e.g. Stamp Duty Land Tax); the second is capital gains tax on residential property; the third is in the interaction between taxation and the quality of the private rented sector. The report concludes with some key areas for further research.

Research was undertaken as part of a broader range of evidence reviews for the UK Collaborative Centre for Housing Evidence (CaCHE) and contributes to one of the seven themes of the Centre – Housing and the Economy. More specifically, the report considers the economic effects and incidence of selected forms of housing taxation, with a focus on both the UK and international experience.

Key takeaways -

- Transaction taxes are distortionary on a number of metrics, including local housing market mobility, incentive effects on downsizing and reducing transaction volumes. The evidence to date does not appear to support the contention that national labour markets are adversely affected by such taxes in a substantial way.
- Evidence on the effects of capital gains tax (CGT) is more limited, and in the UK much discussion centres on possible alternative methods of implementation. The general issue of the effect of CGT on assets is broad, including a wide debate about the general incidence of capital taxes, but in particular the effect of the tax treatment of housing as an asset in comparison to other investments.

One conclusion of this review is that there is scope for more applied research into the effects of specific taxes in the housing market. Differences in tax treatment across countries argue that evidence does not fully translate across borders. Recent advances in the handling and analysis of large datasets may mean that scope for further analysis exists, subject to proprietary data and privacy issues. The UK private rented sector appears to be one area where there are many dimensions of possible analysis but, as yet, few systematic analyses that are formally published.

As a consequence, this report suggests several possible areas for future analysis including how tax policy might improve the quality of the housing stock or make housing more affordable for certain groups in society, irrespective of tenure. In time, data from recent changes to transaction taxes in Scotland and Wales will allow for a comparative analysis on the effects of different systems on different types of buyers and sellers across the UK. Evaluating the process of transition from one tax system to another, and how any change could be achieved with a minimum loss, or gain, to overall economic efficiency, would be an additional area for innovative research. More fundamentally, this raises the question of whether home ownership is good for the economy or society, and, if so, if there is a particular level of owner-occupation that policy makers should target. A richer evidence base would support a more thorough appraisal of potential policy options.

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

Source: Matsu J (2018), 'International Evidence Review on Housing Taxation'. [RICS website > Home > News & Insight > Research > International Evidence Review on Housing Taxation]. RICS UK [online]. Available at: www.rics.org/uk/news-insight/research/research-reports/international-evidence-review-on-housing-taxation/ [accessed 2 January 2019]

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Tackling mental health and wellbeing within the construction industry



Builder&Engineer (2017)

New app launched to support mental health of construction workers

- With two construction workers taking their own life every single working day and stress, anxiety and depression currently accounting for a fifth of all work-related illness, a new partnership is set to offer support to those who may be affected.

A collaboration between the **Lighthouse Construction Industry Charity**, construction software **COINS** and **Building Mental Health** aims to address the sensitive subject with a free mental health app.

The new 'Construction Industry Helpline' app will provide vital information, advice and guidance on many wellbeing topics including stress, anxiety, depression, anger and suicidal thoughts.

The app, which is 100% confidential, was launched on 7 December at the charity's annual Christmas Lunch at the Westminster Park Plaza Hotel in London.

Bill Hill, CEO of the Lighthouse Construction Industry Charity, said: "The app complements our existing 24/7 Construction Industry Helpline and is aimed at people who would like to find out more information about how they can perhaps help themselves or if necessary, take the next step in seeking professional help. It is a preventative tool and provides support at the initial stages of a situation so that the problem does not reach a life critical stage."

Although the construction industry is rising to the challenge of creating a healthier workplace, finding the right support is not always easy. The Lighthouse Club is already helping to drive significant change through a variety of mental health and wellbeing support programmes – but it realizes that there is still a long way to go before the culture in construction removes the stigma about talking about mental health and wellbeing. By providing a free app, which can be downloaded by anyone in the industry, it hopes to combat this.

The 'Construction Industry Helpline' app will provide information, advice and guidance about how people can relieve the long-term effects of stress, anxiety or depression as well as providing access to other areas of support such as anger management, drug and alcohol dependency, debt management, legal advice, and emergency financial aid.

COINS, which has over 35 years of developing software solutions for construction companies, is also passionate about giving something back to the industry.

CEO Robert Brown added: "Collaborating with the Lighthouse Construction Industry in building this important app to help support construction workers and there has been a privilege. It is a great way for COINS to give something back to the construction industry and hope that it will be a great help to both construction workers and their families when they need it the most."

You can download the **Construction Industry Helpline** app on Google Play or the App Store.

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 [accessed 2 January 2019]

Related links incl.:

Gerrard N (2018) 'Laing O'Rourke and Skanska in occupational health pilot', *Construction Manager* [online], 5 October. Available at: www.constructionmanagemagazine.com/news/laing-orourke-skanska-and-morgan-sindall-new-occup/ [accessed 2 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/ [accessed 2 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 [accessed 2 January 2019]

Buckland D (2017) **'Building up wellbeing in construction'** [online], *Future of Construction*. Available at: <https://futureofconstruction.org/> [accessed 2 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_wellbeing_in_construction [accessed 2 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 [accessed 26 November 2017], *Building&Engineer*, 7 March.

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CBRE – [Global Real Estate Market Outlook 2018](#)

- Report explores key themes for major property sectors in 2018, in addition to macroeconomic conditions globally

In addition to macroeconomics, this report explores six key global themes:

- **Capital Markets:** Corporate acquisitions to shape the investment market in 2018
- **Pricing:** Overall, cap rates will largely be stable globally in 2018, supported by positive investor sentiment and capital availability.
- **Office:** Leasing fundamentals are positive; constrained by tight labor supply.
- **Retail:** Buoyant consumer confidence is driving retail demand.
- **Industrial & Logistics:** E-commerce continues to drive strong industrial and logistics demand
- **Multifamily:** Multifamily is the star performer of the U.S. commercial property market.

Further information and access to read online or download the above-mentioned research report is available at

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 [accessed 2 January 2019]

Related Link

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 [accessed 2 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 [accessed 2 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 [accessed 2 January 2019].

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Royal Institution of Chartered Surveyors (RICS) [150th anniversary](#)

2018 marks the 150th anniversary of RICS. To celebrate this milestone, RICS have launched two initiatives that highlight the achievements of the profession that demonstrate its importance to society, both in the past and in the future.

In addition to this they have opened an exhibition at their HQ on Parliament Square, London. The exhibition – called 'Shaping the World, Building the Future' – offers a rare opportunity to see first-hand the positive impact and significant contribution that surveyors all over the world have made to society over the last 150 years. As part of the celebrations, their iconic HQ – built in 1899 – has been recreated in Lego.

RICS at 150 not only presents an opportunity to celebrate their past, but to help define the future. The Pledge150 campaign will see RICS partner with property industry charity LandAid, to provide 150 bed spaces to help fight youth homelessness.

Further information is available at:

Source: RICS (2018) 'RICS 150th anniversary' [RICS website > Home > News & Insight > Topics & Trends > RICS 150th anniversary] RICS [online]. Available at: www.rics.org/uk/news-insight/topics-trends/rics-150th-anniversary/ [accessed 2 January 2019], as well as an 'Anniversary' special issue [S.I.] of *Modus* mentioned later in this issue.

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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 licenses granted after 1st 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 Licenses) (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 [accessed 2 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/ [accessed 2 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 2nd quarter 2018. They are published in the following data sets:

- BCIS Comprehensive majors works 2019 (36th edition)
- BCIS Comprehensive minor works 2019 (36th edition)
- BCIS Alterations & refurbishment 2019 (24th 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/ [accessed 2 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 [accessed 2 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/ [accessed 2 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/ [accessed 2 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 [accessed 2 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 [accessed 2 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 [accessed 2 January 2019]

Brook P (2018) 'Life on a housing treadmill: struggling to make a home on a low income' [online], 30th April, JRF. Available at: www.jrf.org.uk/blog/life-housing-treadmill-struggling-make-home-low-income [accessed 2 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 [accessed 2 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 [accessed 2 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 Shared Prosperity Fund should be targeted, flexible, devolved and designed to promote inclusive growth.

Source: Tinker R (2018) 'Designing a Shared Prosperity Fund', Part of 'Solving poverty after Brexit' [online], 8 October 2018. Available at: www.jrf.org.uk/report/designing-shared-prosperity-fund [accessed 2 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/ [accessed 2 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 [accessed 2 January 2019]

Savills Research (2018) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: www.savills.co.uk/services/research.aspx [accessed 2 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 country, 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 [accessed 2 January 2019]

Savills Research (2018) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: www.savills.co.uk/services/research.aspx [accessed 2 January 2019]
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Residential Research

Publication | UK Housing Market Update

- Modest price growth fails to boost transactions and sentiment

House prices showed a modest rise of 0.3% in November, according to Nationwide. This puts them at 1.4% up from the start of the year, on track to slightly overshoot our annual growth forecast of 1.0% for the country. Price growth may have been positive, but is not echoed in other key market metrics, which reflect this period of heightened Brexit-related uncertainty. The RICS survey showed a significant drop in the perception of price paid, with surveyors at their most pessimistic since 2012. It also reported falls in both supply and demand (new enquiries and instructions). Transactions across the country were down 3.4% in September compared to September 2017. This followed an unusually strong August but is in keeping with a three-year downward trend in activity. We expect transaction volumes to be reasonably stable over the next five years, assuming some clarity is reached around Brexit. When that clarity comes, it may generate a resurgence in demand and activity. The current falls in activity reflect broader economic indicators. The GFK Consumer Sentiment Survey also fell in November, down to its lowest score of the year. One of its key metrics, the Major Purchase Index, dropped by the largest amount in 28 months. This widespread loss of confidence comes as the ongoing Brexit negotiations pass through a key period. The uncertainty has given rise to a wide range of scenarios for the future health of

the economy being discussed. Additional pressure on home buyers come from mortgage servicing costs, which had been rising steadily since March (see publication date) following the Bank of England base rate rise. Further information and access to the research in full is available @

Hampson E, and Buckle C, Savills Research and articles (2018), 'Publication: *UK Housing Market Update*' [online], 6 December. Available at: www.savills.co.uk/research_articles/229130/272559-0 [accessed 2 January 2019]

Savills Research (2018) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: www.savills.co.uk/services/research.aspx [accessed 2 January 2019]

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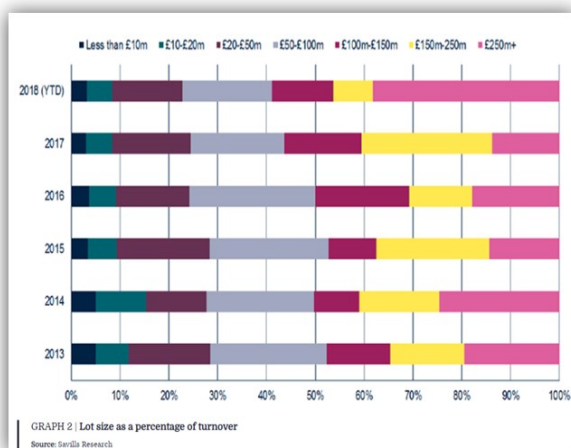
Commercial Research

Publication | West End Investment Watch

- A feast of "mega deals" looks set to add to the Christmas spirit

Market comment and notable deals

- November saw investment volumes of £172m over 10 transactions which brings the annual total to £6.47bn year to date. With circa £1.3bn under offer or already exchanged in December, as we got to print, indications suggest year and turnover could reach £7.75bn. This would be 10% up on 2017 and comfortably in excess of the ten-year average.
- The largest deal of the month (see publication date) was Orchard Street Investment Management's off market acquisition of 141 Wardour Street for £55m, reflecting a 4.31% net initial yield and a capital value of £1,631 per sq. ft. The property, originally built in the 1930s, was redeveloped behind a retained façade in 2001 and provides 33,717 sq. ft of office and retail accommodation arranged across six floors. The office accommodation is let in its entirety to Moving Picture Company for a further 10.5 years, at an average passing rent reflecting £73 per sq. ft, whilst the retail is let in its entirety to Prince. The property was sold by clients of Roebuck Asset Management who acquired the asset in 2011 for £30m.
- On behalf of a Private UK Investor, Savills has sold the freehold interest in 58-59 Great Marlborough Street, a mixed-use Soho freehold property for in excess of the quoting price of £19m, which reflected a 3.81% net initial yield and a capital value of £1,454 per sq. ft. Totalling 13,066 sq. ft, the property provides office, restaurant, retail and residential accommodation across eight floors in addition to having extensive terraces to the fifth and sixth floors. Fully let to seven tenants the property has a WAULT to expiry of 2.6 years on the offices, which are let off highly reversionary rents averaging £59 per sq. ft and 18.7 years on the restaurant and retail element combined.
- In the second of three sales undertaken by Savills in November. 202 Hammersmith Road was sold on behalf of Aberdeen Standard for £16.8m, reflecting a 4.43% net initial yield and a capital value of £1,139 per sq. ft. Comprehensively refurbished in 2017, the building provides 14,746 sq. ft of Grade A office space which benefits from an attractive, period façade. The property is single let for a remaining 9.2 years to Victoria Beckham Ltd, for an annual rent equating to £53.88 per sq. ft.
- We have already witnessed a record seven transactions over £250m this year (see publication date) totaling £2.47bn, with deals over this lot size making up an unprecedented 38% of total volume (see below graph). We anticipate that three further sales, in excess of £250m, totaling almost £800m, could trade before year end. However, in view of the current political mood this may act as a brake on the normal conclusion of pre-Christmas transactions.



Source: Bajela V, and Gawthrop G, Savills Research and articles (2018), 'Publication: *West End Investment Watch*' [online], 12 December. Available at: www.savills.co.uk/research_articles/229130/272773-0 [accessed 2 January 2019]

- Savills acted on 26% of deals by volume in November and remain extremely active with a handful of projects due to exchange as we approach year end.
- The MSCI average net initial and equivalent yields both moved out to 3.65% and 4.74% respectively. Savills prime yield remains at 3.5%.

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

Bajela V, and Gawthrop G, Savills Research and articles (2018), 'Publication: *West End Investment Watch*' [online], 12 December. Available at: www.savills.co.uk/research_articles/229130/272773-0 [accessed 2 January 2019]

Savills Research (2018) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: www.savills.co.uk/services/research.aspx [accessed 2 January 2019]

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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 [accessed 2 January 2019]

Savills Research (2018) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: www.savills.co.uk/services/research.aspx [accessed 2 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 [accessed 2 January 2019]

Savills Research (2018) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: www.savills.co.uk/services/research.aspx [accessed 2 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 total 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 2 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 2 January 2019]

2019 Benefits Uprating [5 December 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8458> [accessed 2 January 2019]

Housing Market: Key Economic Indicators [29 November 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02820> [accessed 2 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 2 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 2 January 2019]

House prices (UK): Social Indicators page [14 November 2018]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02645> [accessed 2 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 2 January 2019]

Grenfell Tower Fire: Background [15 May 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8305> [accessed 2 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 2 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 2 January 2019].

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 2 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 2 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 2 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 2 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 2 January 2019]

Safeguarding in English schools [5 October 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8023> [accessed 2 January 2019]

The Office for Students [5 June 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8294> [accessed 2 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 2 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 2 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 2 January 2019].

Brexit Glossary [22 November 2018] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7840> [accessed 21 December 2018]

Climate change conference (COP24): Katowice, Poland [29 November 2018]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8450> [accessed 2 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 2 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 2 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, Parliamentary business, Publications and records, **Research briefings** [online]. Further information is available at: <http://researchbriefings.parliament.uk/> [accessed 2 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 [accessed 2 January 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 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 2 January 2019]

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[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 contractors 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 2 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

[accessed 2 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 2 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 2 January 2019]

Source: CIOB [n.d.], Policy and Public Affairs – Consultations [online]. Available at: <https://policy.ciob.org/consultations/> [accessed 2 January 2019]

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Apprenticeships –

[Success for UCEM's first two apprentices](#)

Two young women from Reading have become the first employees to complete apprenticeships at UCEM. Student Experience Administrator, Georgia Haines, and Apprentice Administrator, Nicole Hattoe, completed their year-long apprenticeships last month.

Georgia and Nicole, who are 21 and 20, respectively, both enrolled on the Level 3 Business Administration apprenticeship which is run by QA Apprenticeships. UCEM provided the supporting employment as part of the apprenticeship which saw Georgia and Nicole work for the higher education institution four days a week with one day allocated towards their studies.

Reflecting on the apprenticeship, Georgia said: "The apprenticeship overlapped with work. You choose your modules at the start to fit in with your job role. Finding out why things are done in certain ways was very beneficial. I learnt more about the job role through the apprenticeship. The apprenticeship was a great way to kick-start my career."

Nicole added: "The apprenticeship was great because you get experience and education, and no debt!"

Line managers, Sophie Elliott (Director of Admissions and Registration) and Sue Squires (Administration Team Leader – Apprenticeships), worked closely with Georgia and Nicole, respectively, to ensure they were supported with their studies. Nicole commented: "She [Sue] was helpful and supportive. She allowed me extra time to complete apprenticeship tasks [away from the day job]."

Georgia added: "She [Sophie] was great, If I was struggling, she would help me. Everyone at UCEM has been very helpful."

Georgia will now embark upon a two-year Level 4 Project Management apprenticeship at UCEM and Nicole is looking to take on a full-time role within UCEM's Student Services Department.

UCEM Principal, Ashley Wheaton, commented: "I would like to congratulate Georgia and Nicole for completing their studies and becoming UCEM's first two apprentices. As the largest provider of surveying degree apprenticeships, we are passionate advocates of the apprenticeship agenda and it would be remiss of us not to practise what we preach.

"I hope we can support many more young apprentices in the future which will benefit both ambitious, career-driven school leavers and UCEM alike."

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/ [accessed 2 January 2019]

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Related Link:

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/ [accessed 2 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 [accessed 2 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/ [accessed 2 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/ [accessed 2 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.construction-manager.co.uk/news/new-apprenticeship-levy-qa/ [accessed 2 January 2019]

Jones M (2017), 'Implementation is key to making the apprenticeship levy less about cost and more about gain', LinkedIn [online], 9th June. Available via www.linkedin.com [accessed 2 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/ [accessed 2 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 11 December 2018) on

- **Straw bale construction – A quick introduction to a healthier and more sustainable form of construction.**
- Plug and play skyscrapers – The structural feasibility of modular high-rise buildings.
- **Architectural styles – We run through the top 37 styles in history – but how many would you recognise?**
- **BREEAM Wiki – Share your BREEAM knowledge to help improve the industry (see further information within the Sustainability Hub)**
- **Driving innovation with BREEAM – Are you innovating without realizing it?**
- Sequestered carbon – Is timber a carbon source rather than a carbon sink?
- Mediation – Disputes on infrastructure projects can have a major impact on delivery.
- The Great Barn at Harmondsworth – John Betjeman described it as one of the 'noblest medieval barns in the whole of England'.
- Data Culture – Everything comes down to finding the right people to implement change.
- Excavating plant – This article looks at some of the main types of plant used for excavation
- **A social, circular economy – The benefits of a unified approach on construction projects**

- Materials on site – Materials are sourced by the contractor and the client pays after they have been delivered to site.

This month also contains **news** (as of 11 December 2018) from the following organisations and online journals incl.

- AIA 2019 Gold Medal – Richard Rogers wins is the AIA’s annual honour.
- **BIM plus, 10 Dec – Kier trials robot site inspector.**
- Construction Manager, 10 Dec – Crossrail may need an additional £1bn bailout.
- Construction Enquirer, 10 Dec – Interserve shares collapse as rescue talks continue.
- GOV.UK, 8 Dec – James Brokenshire unveils action plan to combat rough sleeping.
- **Health wellbeing and productivity – BRE conference on ways of providing and maintaining quality indoor environments.**
- CIAT, 6 December – BSI’s full membership secured post-Brexit.
- Gemini Principles – CDBB publish foundational definitions and values to guide the development of the National Digital Twin.
- **GOV.UK, 7 Dec – Improving the uptake of smart energy systems by local communities.**
- Heritage sector cuts survey – Despite the reduction in staffing, most users remain satisfied with the service.
- CIAT, 26 Dec – Ban on combustible materials comes into force on 21 December (see publication date).
- Construction Manager, 5 Dec – MPs push for statutory 30-day payment.
- Construction Enquirer, 5 Dec – Former Atkins chairman replaces Terry Morgan at HS2.
- **ICE briefing paper – Improving approaches to risk in the built environment sector.**
- **BSRIA white paper – Megatrends: Smart Building Technology.**
- **GCR, 5 Dec – North Jakarta is sinking by 11cm a year**
- Construction Index, 5 Dec – Helsinki starts a project to reduce the disruption caused by roadworks.
- CDBB, 4 Dec – Seven common challenges facing government when introducing BIM.
- IHBC, 4 Dec – Guidance tool for communities to identify local heritage assets.
- **Scottish Construction Now, 4 Dec – New app launched to support the mental health of construction works (see further information above)**
- **BSRIA – 2019 SPON’S Publications are now available.**
- Construction Index, 4 Dec – Travis Perkins to sell plumbing and heating division.
- **GOV.UK, 3 Dec – Investigate the relationship between mine water and groundwater using new data tool.**
- Construction Index, 3 Dec – Ferrovial puts Amey up for sale.

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

‘Designing Buildings Wiki’ categories			
Project Plans	Project activities	Legislation and Standards	Industry context
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**, (2018) [online]. Further information is available at: www.designingbuildings.co.uk/wiki/Home [accessed 2 January 2019]

See also –

Designing Buildings Wiki – Student resources

Designing Buildings Wiki – Student resources [online] and available at: www.designingbuildings.co.uk/wiki/Student_resources [accessed 2 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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Construction industry institutes and associations

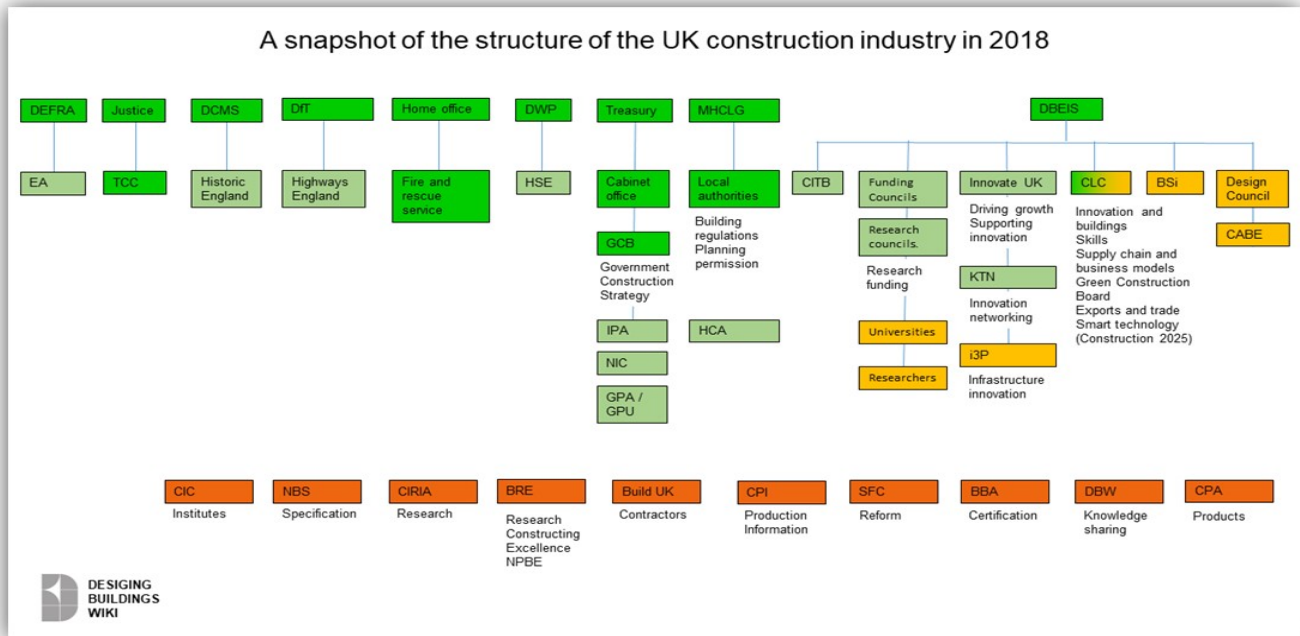
-This list is for institutes, associations and other bodies that might be considered to represent part of the construction industry.

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 [accessed 2 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 [accessed 2 January 2019]

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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 [accessed 2 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 of 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 reference by the *Government Construction Strategy 2011 2015* (published in May 2011) which pointed to a particular fragmentation of the public-sector client base.

Government oversight of the construction industry is spread across a large number of 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) above 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 [accessed 2 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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Designing Buildings Wiki – [celebrating reaching 5,000 articles](#)

To celebrate reaching 5,000 articles, 'Designing Buildings Wiki' present 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 https://www.designingbuildings.co.uk/wiki/Most_popular_articles_in_each_subject_area](http://www.designingbuildings.co.uk/wiki/Home_and_https://www.designingbuildings.co.uk/wiki/Most_popular_articles_in_each_subject_area) [accessed 2 January 2019]

NOTE: Use of Wikipedia as a reference site:

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The Construction Information Service (CIS) – *Insight 12/2018 Edition*

- *CIS Insight* (12/2018 Edition) –

This month's *Insight* focuses on 'Managing risks. Health and safety, business and finance', and covers

- Health and safety statistics for 2017/2018
- Assessing risks
- Handling risks once defined

Abstract

A risk management plan is an integral part of every successful construction project; for health and safety reasons as well as business and finance. In this update, *CIS Insight* takes a look at the current (provisional) health and safety figures for 2017/2018 and revisit the importance of having a risk management plan.

Contents

- **Health and safety – UK statistics 2017/18**
- Work-related ill health and occupational disease
- Construction industry specific
- Non-fatal injuries, Fatal injuries & Fatal injuries in construction;
- **Business and Finance**
- **Risk assessment**
- **Input and output**

- **CDM regulations**

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

Source: NBS (2018), The Construction Information Service (CIS) – *Insight 12/2018: Managing risks. Health and safety, business and finance* [online]. Further information available at: <http://www.ihsti.com/CIS/document/324607> [accessed 2 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 includes 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/ [accessed 2 January 2019]



<https://www.facebook.com/pages/The-Smith-Institute/251600568286?v=wall> [accessed 2 January 2019]



https://twitter.com/smith_institute/ [accessed 2 January 2019]



on The Smith Institute’s website [online] and available @ www.smith-institute.org.uk/?page_id=66 [accessed 2 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 a number of 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/ [accessed 2 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 [accessed 2 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/ [accessed 2 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, though 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 up 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/ [accessed 2 January 2019]

The Smith Institute, Publications [online] and available at: www.smith-institute.org.uk/?post_type=books [accessed 2 January 2019]. [Back to top](#)

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/ [accessed 2 January 2019]

The Smith Institute, Publications [online] and available at: www.smith-institute.org.uk/?post_type=books [accessed 2 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/ [accessed 2 January 2019], London: The Smith Institute

The Smith Institute, Publications [online] and available at: www.smith-institute.org.uk/?post_type=books [accessed 2 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 [accessed 2 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/ [accessed 2 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 [accessed 2 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 [accessed 2 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 [accessed 2 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 [accessed 2 January 2019]



<https://twitter.com/nationaltrust/> [accessed 2 January 2019],



<https://www.facebook.com/nationaltrust> [accessed 2 January 2019],



<https://www.youtube.com/user/nationaltrustcharity/> [accessed 2 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 [accessed 2 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 takes into account 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 [accessed 2 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 [accessed 2 January 2019]. [Back to top](#)

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 [accessed 2 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 [accessed 2 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 [accessed 2 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 [accessed 2 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 [accessed 2 January 2019] and www.revocommunity.org/insights [accessed 2 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/ [accessed 2 January 2019]



<https://twitter.com/FosterPartners> [accessed 2 January 2019],



<https://www.facebook.com/fosterpartners> [accessed 2 January 2019],



<https://www.linkedin.com/company/foster-&-partners> [accessed 2 January 2019],



<https://www.youtube.com/user/FOSTERANDPARTNERS1> [accessed 2 January 2019]. [Back to top](#)

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 [accessed 2 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, (2017) 'The future of construction - BIM' [online], last edited 19 June 2017. Available at: www.designingbuildings.co.uk/wiki/The_future_of_construction_-_BIM [accessed 2 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 is provided via the following:

Source: **Designing Buildings.co.uk Wiki**, (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 2 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 & NBS homepage [online] and available at: www.thenbs.com/ & NBS Knowledge [online] and available at: www.thenbs.com/topics/index.asp [accessed 2 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 [accessed 2 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 & NBS homepage [online] and available at: www.thenbs.com/ & NBS Knowledge [online] and available at: www.thenbs.com/topics/index.asp [accessed 2 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 [accessed 2 January 2019]

The NBS, NBS TV – Design & Specification [online]. Further information and additional programmes are available at: www.thenbs.com/knowledge/design-specification [accessed 2 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 [accessed 2 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 [accessed 2 January 2019]

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NBS National Building Information Modelling (BIM) [Report](#) 2018 –



Source: 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 [accessed 2 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 [accessed 2 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 [accessed 2 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 [accessed 2 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 2 January 2019]

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Latest News on BIM -

BIM Around the world – The UK move to International BIM standards

- Kosandiak S, and Philp D explore the BSI's new international standards which will supersede BS 1192 and PAS 1192-2

BSI, the business standards company, is soon to publish (see publication date) the first two significant international standards for BIM. BS EN ISO 19650-1 and BS EN ISO 19650-2 both supersede the current BS 1192 (principles) and PAS 1192-2 (capital delivery phrase).

Both new international standards provide guidance on the organisation of information about construction works and information management using BIM. BS EN ISO 19650-1 considers concepts and principles; BS EN ISO 19650-2 considers the capital and deliver phase.

Figure 1 – The transition to international standards



Source: 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 information is available at: www.bimplus.co.uk/people/uk-move-iso-bim-standards/ [accessed 2 January 2019]

The UK's decision to trigger the move from BIM Level 2 as a national standard to international standards is rooted back to 2011 and the *Report for the Government Construction Client Group – BIM Strategy Paper*.

The report encouraged the greater adoption of BIM within the UK domestic construction sector and recognised that BIM would become a disruptive and “game changing” way of working and have a profound effect on global construction.

BIM technologies and processes transcend national or geographic borders. Therefore, during the development of the UK BIM programme there was growing consensus that BIM-globalisation would inevitably push towards international norms and standards.

BSI, in its role as the UK's national standards body, used its existing suite of standards as the basis for the forthcoming international BIM standards. The existing BIM standards were already proven as an effective tool to aid systematic adoption of standardised guidance and were thus a suitable foundation for collaboration with other nations to develop international standards.

The premise of this collaborative approach was that benefits would be realised by all nations, including a common security-minded approach to the adoption of these powerful data/information rich models and tools. Collaterally it was anticipated that such a response would also lay the foundations for a level playing field for international markets and foster trade.

Source: 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 information is available at: www.bimplus.co.uk/people/uk-move-iso-bim-standards/ [accessed 2 January 2019]

Related Links:

- 1) 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/ [accessed 2 January 2019]
- 2) 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/ [accessed 2 January 2019]
- 3) 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/ [accessed 2 January 2019]
- 4) CIOB (2018) 'Bentley launches guide to BIM' [online]. Available at: www.bimplus.co.uk/news/bentley-launches-guide-bim/ [accessed 2 January 2019]
- 5) 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/ [accessed 2 January 2019].

- 6) 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.constructionmanagemagazine.com/opinion/how-your-bim-champions-can-be-key-success/ [accessed 2 January 2019].
- 7) 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 [accessed 2 January 2019] **ARTICLE #2829** (BRE).
- 8) Snook, K., 18th May 2015, Building Research Establishment (BRE), *Building4Change*, *Back to BIM Basics* [online] and available at: www.building4change.com/article.jsp?id=2644#.VqpB-fmLRaS [accessed 2 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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www.routledge.com/reference/posts/4970?utm_source=plan&utm_medium=cms&utm_campaign=sbu3_vej_3rf_8cm_3pla_rf2v15_bls15_x_plan [accessed 2 January 2019]

& Taylor and Francis Online, Planning and Urban Design blog @

www.routledge.com/planning/posts?utm_source=banner_ad&utm_medium=banner&utm_campaign=sbu3_cth_4mx_4ad_3pla_cmg15_eupdatesblog_x [accessed 2 January 2019]

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- Higher Education is rapidly evolving. Questions on technology, open education, the sciences versus the humanities, and diversity abound. Wiley Education hope that the research included in this collection will shed light on these issues, and prompt you to ask new questions about the future and role of higher education around the world.

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http://onlinelibrary.wiley.com/subject/code/000048/homepage/higher_education.htm?dmmsmid=93591&dmm_spid=22770103&dmm_suid=2438892 [accessed 2 January 2019]

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Read the most talked about articles in Education!

Altmetrics tracks and measure the impact of scholarly research. The 20 article title bellows are the most talked about education articles on Twitter, on Facebook and in the news –

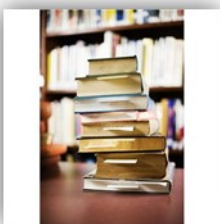
- The effect of Twitter on college student engagement and grades, *Journal of Computer-Assisted Learning*
- Once Upon a Time: Parent-Child Dialogue and Storybook Reading in the Electronic Era, *Mind, Brain & Education*
- The effects of musical training on the decoding skills of German-speaking primary school children, *Journal of Research in Reading*
- Why What Works Wont Work: Evidence-based Practice and The Democratic Deficit in Educational Research, *Educational Theory*
- How and How Not to Prepare Students for the New Tests, *The Reading Teacher*
- Sharing personalised stories on iPads: a close look at one parent-child interaction, *Literacy*
- What is Education For? On Good Education, Teacher Judgement, and Educational Professionalism, *European Journal of Education*
- Specific Reading Comprehension Disability: Major Problem, Myth, or Misnomer? *Learning Disabilities: Research and Practice*
- Boredom in the lecture theatre: An investigation into the contributors, moderators and outcomes of boredom amongst university students, *British Educational Research Journal*
- Parents' experiences of applied behaviour analysis (ABA)-based interventions for children diagnosed with autistic spectrum disorder, *British Journal of Special Education*
- "Not Designed for Us": How Science Museums and Science Centers Socially Exclude Low-Income, Minority Ethnic Groups, *Science Education*
- Twitter for teaching: Can social media be used to enhance the process of learning? *British Journal of Educational Technology*
- To know is not enough: research knowledge and its use, *Review of Education*
- Adolescent Pregnancy's Intergenerational Effects: Does an Adolescent Mother's Education Have Consequences for Her Children's Achievement? *Journal of Research on Adolescence*
- How Ought War to Be Remembered in Schools? IMPACT: Philosophical Perspectives on Education Policy
- Experimental evaluations of elementary science programs: A best-evidence synthesis, *Journal of Research in Science Teaching*
- Is no praise good praise? Effects of positive feedback on children's and university students' responses to subsequent failures, *British Journal of Educational Psychology*
- Second Language Comprehensibility Revisited: Investigating the Effects of Learner Background, *TESOL Quarterly*
- The New Literacies of Online Research and Comprehension: Rethinking the Reading Achievement Gap, *Reading Research Quarterly*
- Enhancing Young Hispanic Dual Language Learners' Achievement: Exploring Strategies and Addressing Challenges, *ETS Research Report Series*

Source: Wiley Education, **Wiley Online Library**. Further information is available at:

<http://dmmsclick.wiley.com/view.asp?m=819id1prqndh7ghnsqt6&u=22770103&f=h> [accessed 2 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

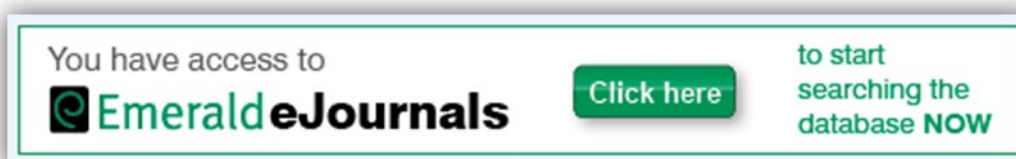
qualifications and standards in the development and management of land, real estate, construction and infrastructure. Their expertise covers property valuation and management; the costing and leadership of construction projects; the development of infrastructure; and the management of natural resources, such as mining, farms and woodland. RICS Library Services [online]. Available at: www.rics.org/uk/footer/library-services/ [accessed 2 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 2 January 2019]

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& finally

How geological 3D modelling helps engineers design a hilly motorway in New Zealand

- Engineers in New Zealand are praising geological 3D modelling software for helping them design a major motorway through complex topographical conditions.

They say the software lets geologists create a visual model themselves without the help of a CAD technician, which made the process quicker and facilitated better communication between designers and contractors. It also allowed them to pick the most cost-effective route through the hilly terrain because they could compare the cut-and-fill quantities required as the alignment varied through different slop profiles. The motorway, costing an estimated NZ\$700m, is the 18-km Pūhoi to Warkworth extension, north of Auckland. With Auckland's population growing, the Warkworth region is classed as a growth centre and the number of cars travelling the route daily is set to rise from 19,700 in 2012 to 31,300 in 2026. The road will cut through steep hills and valleys, requiring seven bridges. Seven million cubic metres of earth must be moved amid the presence of soft alluvial sediments. The design work was subcontracted to Design Joint Venture (DJV), comprising engineering consultants Beca and Tonkin + Taylor, who used Seequent's Leapfrog Works 3D geological modelling software. "It was important we could use a modelling tool that worked flexibly around the different geology and surface types to give accurate outputs," said Chris Monk, engineering geologist, Tonkin + Taylor.

The team used data from 210 cone penetration tests (CPTs), 420 boreholes, 355 Hand augers and 220 test pits to build the model. Detailed design started in October 2016 and is ongoing. Using Leapfrog Works meant geological surfaces could be mapped by a geologist, rather than engaging a CAD technician to work alongside a geologist, resulting in a smoother workflow, and faster turn-around times. As project engineers needed sections, they were able to go to a single point of contact to quickly create the desired section, saving time and need to re-produce work. The model proved to be a good communication tool, doing away with the need for paper drawings.

"By being able to show the model in 3D and cut sections at any desired location instantaneously enabled others to visually understand the geological conditions of the site with much better clarity," said Stuart Cartwright, senior engineering geologist at Tonkin + Taylor.

"We collaborated much more as a whole project team as we were able to hold informal review sessions/workshops to show progress. In the past we would have gone with paper sections, but the 3D model outputs and graphical interface changed the way we communicated and collaborated," Cartwright added. He said the length of the proposed motorway and its alignment through such steep topography made the ground model development challenging.

The model was then imported into the Bentley OpenRoads civil design software, which allowed the slope profiles and cut and fills quantities for different alignments to be compared, to assess the most cost-effective alignment. This helped reduced unnecessary cut and fill, while, reducing tree removals.

"Having a dynamic model that evolves as new data is provided has saved the team time from not having to recreate a new model every time, leaving us more time to focus on analysis," said Chris Monk.

The motorway is expected to take five years to build and will be open to traffic in late 2021.

GCR Staff (2018) 'How geological 3D modelling helps engineers design a hilly motorway in New Zealand' [online], *Global Construction Review*, CIOB, 13 December. Available at: www.globalconstructionreview.com/innovation/how-geological-3d-modelling-helps-engineers-design/ [accessed 2 January 2019]

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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. Economics 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.

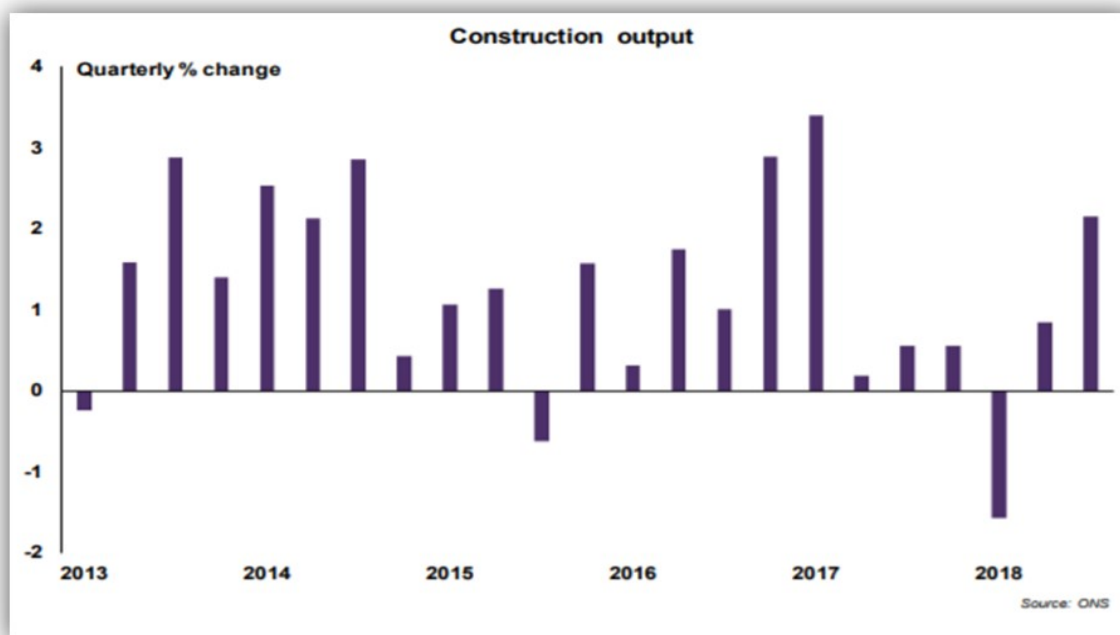
Brexit uncertainty has featured heavily in the latest round of RICS surveys. Contributors to the RICS Residential Market Survey have cited this as one of the main reasons behind subdued activity alongside affordability constraints and lack of available stock.

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 as a result 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/ [accessed 2 January 2019].

Chart 19 – Construction sector

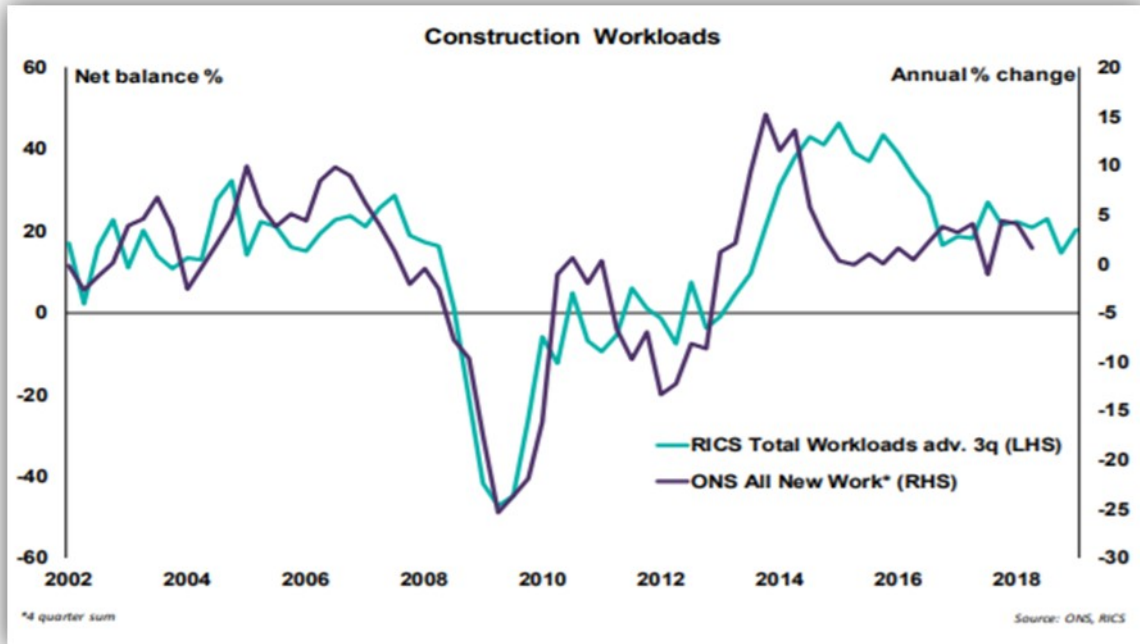
Following a weak opening to 2018, it looks as if activity in the construction industry has recovered over recent months, with the ONS reporting output rose by 2.1% in Q3 following growth of 0.8% in Q2.



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/ [accessed 2 January 2019]

These include:

- **UK Residential Market Survey.** **Note:** The latest survey, dated November 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 (see above).
- **UK Commercial Market Survey** – a leading indicator of developments in the UK commercial property occupier and investor markets. **Note:** For the latest, please see above.
- UK Construction and Infrastructure Survey – the leading sentiment indicator of the UK construction and infrastructure markets.

RICS (2018), Research, Market Surveys [online], London: RICS. Available at: www.rics.org/uk/news-insight/research/market-surveys/ [accessed 2 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.

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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.

November 2018: UK Residential Market Survey

Market activity slips further

- Indicators on demand and sales weaken again
- Sales expectations for the next three months cast a downbeat outlook for the market
- Prices still seen rising across much of the UK in the coming year.

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, November 2018 [online] and available @ www.rics.org/uk/news-insight/research/market-surveys/uk-residential-market-survey/ [accessed 2 January 2019]

RICS.org.uk www.rics.org/uk/ [accessed 2 January 2019]



<https://twitter.com/RICSNews> [accessed 2 January 2019]



<https://www.facebook.com/ricssurveyors> [accessed 2 January 2019]



<https://www.linkedin.com/groups?gid=88902> [accessed 2 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 and every 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/ [accessed 2 January 2019]

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GCR – *Global Construction Review*, ‘UK construction profit warnings soar in first half of 2018’

- UK listed construction and materials companies issued six profit warnings in the first half of 2018, double the number in the same period in 2017, according to EY’s latest Profit Warnings report.



Source: GCR – *Global Construction Review*, 'UK construction profit warnings soar in first half of 2018', Image by Maxmaltsev/Dreamstime [online]. Available at: www.globalconstructionreview.com/news/uk-construction-profit-warnings-soar-first-half-20/#read [accessed 2 January 2019]

Half way through 2018, the sector has almost matched the seven warnings issued in 2017 overall among listed companies. Bad weather has been blamed for a sluggish start to the year (see publication date), but just one of the six warnings so far this year cited that as a factor, while four cited delayed contracts and uncertainty dragging on demand.

Ian Marson, Construction Leader at EY, said the results drew attention to the sector’s “long-standing structural weaknesses”.

Problem contracts were a major factor said Marson, who called for more choosiness and better risk management at bidding stage. “With the outlook in question, it feels like a good time to take stock and think about how construction companies can improve resilience and meet the challenges that lie ahead,” he said.

Official figures show the construction industry contracting by 0.8% in the cold first quarter but rebounding strongly in May.

The HIS Market Purchasing Managers’ Index (PMI) reading for June maintains the comeback theme with a reading of 53.1, the highest reading since November 2017. “We’ll need a few more months of data to know if this represents a trend and it’s important to note that outside of residential construction, parts of the sector are growing, but at a relatively moderate pace,” Marson said.

EY said construction companies are carrying significant overhead in anticipation of bidding and winning new work but this has been slow to materialize, especially from the public sector. According to the Infrastructure and Projects Authority, 18 new projects joined the Government’s Major Project Portfolio in the year to April 2018, the lowest number since the IPA started publishing its annual report 6 years ago and 50% fewer than the previous year. “Problem contracts are by far the most common reason for contractor profit warnings,” Marson

said, “and so it’s vital that companies bid selectively for contracts, concentrating on their strengths rather than just seeking to build turnover.

“They also need to apply strong risk management disciplines at the bidding stage to ensure they only take on the right contracts at the right pace – and they ensure that problems are identified and managed quickly.”

Further information and access to the review is available via

GCR – *Global Construction Review*, ‘UK construction profit warnings soar in first half of 2018’ [online]. Available at: www.globalconstructionreview.com/news/uk-construction-profit-warnings-soar-first-half-20/#read [accessed 2 January 2019]

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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 [accessed 2 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 [accessed 2 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 [accessed 2 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/ [accessed 2 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: October 2018 and new orders July to September

Contents incl.

(i) Main points; (ii) Things you need to know about this release; (iii) Construction output in October 2018; (iv) Contributions to growth; (v) Detailed growth rates; (vi) New orders; (vii) Plans for future publications; (viii) Links to related statistics; (ix) Other useful links; (x) Quality and methodology; and (xi) Construction statistics engagement and development

- Construction output decreased by 0.2% in October 2018 compared with September 2018. This was driven by declines in infrastructure and public new housing, which fell by 3.7% and 8.1% respectively. The main factor offsetting these declines was a growth in private new housing, which grew by 2.4%.
- The rolling three-month time series provides a more comprehensive picture of the underlying trends within the industry, compared with the more volatile monthly series. Following a marked fall in the rolling three-month series at the beginning of 2018, construction output continued to recover in the rolling three-month

series to October 2018. This growth means that October 2018 represents a new historic high in the rolling three-month chained volume measure, seasonally adjusted data.

- In contrast, September 2018 still represents an all-time high in the monthly all work chained volume measure, seasonally adjusted series at £13,995 million. Despite this decline, in October 2018, the monthly series is still 3.8% higher than its value one year ago, with all work value of construction output at £13,970.

Office for National Statistics (2018), Construction Industry, *Construction output in Great Britain: October 2018 and new orders July to September 2018* [online]. Available at:

www.ons.gov.uk/businessindustryandtrade/constructionindustry [accessed 2 January 2019] and www.ons.gov.uk/businessindustryandtrade/constructionindustry/bulletins/constructionoutputingreatbritain/october2018andnewordersjulytoseptember2018 [accessed 2 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

<https://www.ons.gov.uk/economy/economicoutputandproductivity/output/articles/shorttermindicatorseconomiccommentary/june2018>

- A summary of the short-term indicators published in early June 2018.

Office for National Statistics (ONS), 11th 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 2 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), 11th 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 [accessed 2 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/number192018edition [accessed 2 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/number182017edition [accessed 2 January 2019]

Office for National Statistics (ONS), Construction Statistics Articles [online]. Available at: www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/previousReleases [accessed 2 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 [accessed 2 January 2019].

Office for National Statistics (ONS) website [online]. Further information is available at: www.ons.gov.uk/ons/index.html [accessed 2 January 2019]



<https://twitter.com/ONS> [accessed 2 January 2019],




<https://www.facebook.com/ONS> [accessed 2 January 2019],



<https://www.linkedin.com/company/office-for-national-statistics> [accessed 2 January 2019],

ONS, Browse by Theme [online] and available @ <http://www.ons.gov.uk/ons/browse-by-theme/index.html> [accessed 2 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 [accessed 2 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/Statistics/industry/construction/index.htm [accessed 2 January 2019]

HSE, *About us* [online] and further information is available at: www.hse.gov.uk/aboutus/insidehse.htm [accessed 2 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 [accessed 2 January 2019]

GOV.UK, Department for Business, Innovation and Skills (BIS), 30th 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 [accessed 2 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 total 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 2 January 2019]

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e-Journal Review

RICS **Modus** Digital Magazine – November / December 2018: [The Great Unknown Issue](#)

- What lies ahead? If we knew that, life would be so very simple. But in this final edition of 2018, *Modus* takes the opportunity to look at some of the big questions that face us as we head into 2019.

For example, how does surveying need to change for the future? Do we need a new way of thinking about technology, and how we can be both international and local in our outlook? How can apprentices fit into that picture, as part of the next generation of surveying talent?

Will the UK's exit from the European Union (EU) turn out to be smooth or chaotic? As we go to press the ground is shifting fast, but RICS' panel of experts from across property, construction and agriculture are looking into the crystal ball to see how Brexit could affect industry.

Elsewhere *Modus* looks at how declining cities like Detroit and Pittsburgh can bounce back and change their fortunes, with forward planning and new approaches to old questions. And finally – yes, this really is looking ahead – can we really build on other planets? *Modus* takes a look at some of the construction techniques that could help us establish colonies on other worlds.

This digital magazine can be accessed by following the above-mentioned web link.

Modus contains regulations sections on **Intelligence / Experience / Features**

Intelligence

- **Deconstructed** - Is civic crowdfunding an adequate alternative to the public purse?
- **Opinion** – RICS CEO Sean Tompkins on the evolution of the profession
- **Chartered territory** - What single measure would do most to boost the UK's housing supply?
- **What can we learn from?** the Dutch approach to building successful cycling infrastructure

This issues main features include:

- **What happens after Brexit?** - Hard? Soft? Canadian-style or Norwegian? A host of housing, construction and agricultural commentators attempt to answer the seemingly unanswerable.
- **One giant leap** - We've put a man on the Moon and proved we're capable of reaching Mars. Now, the next frontier in space exploration is being conquered by the construction industry.
- **Here come the trailblazers** - The latest generation of apprenticeships is tasked with brining a more diverse pool of talent to the profession. What do the aspiring surveyors taking the courses think of them?
- **The rise and fall of post-industrial cities** - What do the examples of former industrial powerhouses like Detroit teach us about how to revive a city's fortunes once they lose the source of their prosperity?
- **RICS Awards UK 2018** – Celebrating the very best of British in the built environment from the past 12 months across eight categories, including the overall Project of the Year.

Experience

- **Let me introduce** – Why momentum is building behind 3D volumetric construction
- **How to ...** Perfect the art of placemaking in the worlds, in the words of its top practitioners
- **What if?** Should all new homes be built with a charging point for electric cars?

Royal Institution of Chartered Surveyors (RICS), Oliver Parsons, Editor of *Modus*, *Modus*, November / December 2018 – *Modus: The Great Unknown Issue* [online], RICS, Knowledge, Journals. Available at:

www.rics.org/uk/news-insight/publications/modus/the-great-unknown-issue/ [accessed 2 January 2019]

RICS Modus – The Anniversary Issue

RICS celebrated its 150th 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/ [accessed 2 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/ [accessed 2 January 2019]

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Latest issue of **Contractors World International** (Vol. 8, No 3) incl.

Contents incl.

Worldwide Panorama

- Ukraine: 20 Skid-steer Loaders for Municipalities
- Italy – Spain: Two New Self-Propelled MSPE Trailers
- Australia: JASO cranes hit the skyline in Canberra
- United Kingdom: Gantry Lift for Replacement Rail Bridge Deck
- United Kingdom: Seabed Project on World's Largest Offshore Wind Farm
- United Kingdom: Longest Steel Girder Structure in History
- Austria: Mobile Crushing Technology at 2,800 m above Sea Level
- Saudi Arabia: High Reach in Demand at Refinery and Terminal Project
- Australia: Kick starting Major Infrastructure Project

USA: Changing Equipment Acquisition Strategy Improve Total Operation

Three New Traction Elevators for Industrial Environments

Innovative Slop Management Concept

&

Flat Roof Restored Efficiently

- Temple Quay in Bristol, UK, a large multi-tenant commercial building, has recently undergone flat roof refurbishment using Pitchmastic's Roodshield PmB waterproofing system.

The existing roof had been the source of several leaks; therefore, a long-term solution was needed that allowed all the plant and equipment plinths on the roofs and walkways to be encapsulated in order to stem the leaks.

The UK's building consultancies contacted USL StructureCare for a solution. After a complete site assessment and free survey by a Pitchmastic PmB specialist, a detailed bespoke specification was issued to the client.

The product forms a seamless polyurethane membrane that bonds to virtually any roof substrate and provides outstanding waterproof protection.

It combines high elasticity with excellent film strength. This means the system will move the roof without splitting or shearing, providing a long-lasting and durable surface.

Any penetration through the existing roof membrane is where water might enter the building. The Roofshield PmB waterproofing system is seamlessly applied by brush roller and encapsulates the entire roof including areas around existing plant machinery, pipes and rainwater outlets.

It provides the ultimate waterproofing protection and solves the problems associated with the long-term waterproofing all of flat roof surfaces.

The system was professionally applied by specialist contractor, USL StructureCare, who is a trained Pitchmastric PmB partner.

Whilst the project presented a number of challenges to the team, not least working on balconies and walkways serving a live commercial property, the works were completed to everyone's satisfaction.

For further information, visit

Contractors World International (2018), 'Flat Roof Restored Efficiently', *Contractors World International* Volume 8, No 3, 2018, Page 47 [online], USL StructureCare. Further information available at: <http://cwmags.com/> [accessed 2 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 2 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** December 2018: 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:

- Wates Principles to improve corporate governance standards among private companies
- Most property professionals 'unfazed by the prospect of Brexit'
- FM market set for £2 billion boost in 2019
- High CO2 levels in UK offices kills productivity
- Drive to employ ex-offenders attracts over 120 businesses

Business News:

- Sodexo acquires Alliance in Partnership to strengthen education links
- ISS plans to increase organic growth by focusing on the key customers
- Countrywide goes to ground with LiveWest contract win
- Hausmanis says FM 'on alert' over Interserve's uncertain future
- Churchill to clean up waterways

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, 10th November, 10th and 11th December, **fm-world.co.uk** [online]. Further information available at: www.fm-

The Heritage Alliance's latest **'Heritage Update' E-Bulletin** – 30 November 2018

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 (30 November 2018) 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:

- The Heritage Alliance travel grant scheme: apply for your grant!
- Help us to improve our Website!
- **Health, Wellbeing and the History Environment – #HeritageChat summary**
- **Legal corner: Historic buildings and reasonable adjustments – requirements and best practice (1)**
- Guest editor

News round-up:

- Giving to Heritage project referenced in evaluation of HLF Catalyst grants
- Britain's creative industries break the £100 billion barrier
- **DCMS publishes new 'Principles of selection for listing buildings' (2)**
- **How will climate change in the next 100 years? (3)**
- Government intends to secure a new deal for the UK tourism industry
- Historic England Angel Awards 2018: and the winner is ...
- 20th anniversary of Heritage at Risk Register
- **Government announces £1 million funding to support the improvement of digital skills in charities (4)**
- **'Raynsford Review of Planning in England' launched (5)**
- Projects awarded for the Coastal Revival Fund announced
- £500,000 fund launched to celebrate Windrush Generation
- **Regenerating high streets: The Open Doors Pilot Project (6)**
- The Charity Commission published updates about 'Protecting charities from harm'
- Call for applications for the Youth Voice Groups Grant Scheme
- **Housing minister Kit Malthouse on 'Building Better, Building Beautiful' Commission**
- **New 'Building Safety Programme' published (further information can be found earlier & within Grenfell Tower section)**
- Government takes new measures against waste crime
- EU Ministers of Culture sustain the legacy of the European Year of Cultural Heritage
- The future of the EU programme Erasmus+
- Creative Europe opens a call for developing European videogames
- **Historic buildings and their contribution to the UK: Michael Ellis' speech at Historic Houses AGM**

Have your say

- Open consultations
- and more.

Source: Heritage Update e-Bulletin [online], Issue **No 383**, 30 November 2018, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 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 [accessed 2 January 2019]



<https://www.linkedin.com/grp/home?gid=4898001> [accessed 2 January 2019]

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Legal corner: Historic buildings and reasonable adjustments – requirements and best practice

If you're running a historic building or heritage site, you'll want the widest cross-section of the public to be able to visit and enjoy your property. When it comes to accommodating visitors with disabilities, the Equality Act also imposes a legal duty on employers and service providers to make "reasonable adjustments" to improve accessibility.

Following the Heritage Debate at which diversity at heritage organisations was discussed, Bates Wells has some guidance on adjusting to ensure accessibility for all.

Related Link:

Bates Wells Braithwaite (n.d.) 'Reasonable adjustments and historic buildings: requirements and best practice' [online]. Available at:

www.bwbllp.com/knowledge/2018/11/29/reasonable-adjustments-and-historic-buildings-requirements-and-best-practice/ [accessed 2 January 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 383**, 30 November 2018, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 January 2019].

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DCMS publishes new 'Principles of selection for listing buildings'

The DCMS has recently published (see publication date) the updated '**Principles of selection for listed buildings**' which sets out the statutory criteria and general principles applied by the Secretary of State when deciding whether a building is of special architectural or historic interest. The selected buildings will be then included in the list compiled after the Planning (Listed Buildings and Conservation Areas) Act 1990.

The following criteria are used by the DCMS to assess the buildings' importance:

- Architectural interest;
- Historic interest;
- Group value;
- Fixtures and features of a building and curtilage buildings;
- Character or appearance of conservation areas.

The assessment is based on general principles including: age and rarity (the more ancient is a building, the more is likely to be included in the list) aesthetic merit, significance and representativeness, national interest and state of repair.

Related Link:

GOV.UK, Department for Digital, Culture, Media and Sport (2018) Guidance: 'Principles of selection for listed buildings' [GOV.UK Website > Home > Society and culture > Arts and culture > Conservation of historic buildings and monuments] GOV.UK [online]. Available at: www.gov.uk/government/publications/principles-of-selection-for-listing-buildings [accessed 2 January 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 383**, 30 November 2018, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 January 2019].

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How will climate change in the next 100 years?

It is increasingly that the climate is changing, and this will have impact on heritage conservation. Predicting the possible scenarios is extremely useful to help heritage specialists plan future conservation strategies.

On 26 November 2018 the Environment Secretary Michael Gove **launched the UK climate projections** (UKCP18) for the next century, which explores the effects of different scenarios. Indeed, as Michael Gove stated "Climate change will affect everybody. UKCP18 is designed to help everybody make better decisions".

The worst-case scenario shows increased temperatures both in Summer and in Winter, raised sea levels and altered precipitation frequencies.

Planning preventive conservation measures will increase the resilience of cultural heritage to survive for future generations. The Heritage Alliance published a briefing about **Climate change mitigation** on July 2014, asking the Government to recognise the carbon benefits of training and adapting older buildings.

Related Links:

GOV.UK, Department for Environment, Food & Rural Affairs, Met Office, Environment Agency, Department for Business, Energy & Industrial Strategy, and The Rt Hon Michael Gove MP (2018) Press release: 'Most detailed picture yet of changing climate launched' [online]. Available at: www.gov.uk/government/news/most-detailed-picture-yet-of-changing-climate-launched?utm_source=db16d88b-9d1d-477e-a909-0f402a05b0f5&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate [accessed 2 January 2019]

Heritage Alliance (n.d.) *Supplementary Briefing: Climate Change Mitigation* [online]. Available at: www.theheritagealliance.org.uk/supplementary-briefing-climate-change/ [accessed 2 January 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 383**, 30 November 2018, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 January 2019].

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Government announces £1 million funding to support the improvement of digital skills in charities

The **2018 UK Charities Digital Skills Report** showed that only 6% of charities consider their trustee boards to be digitally savvy. The report also highlighted that leaders need to better understand how digital skills can help them meet their targets.

The DCMS responded to that report by **allocating £1 million funding for improving existing training programmes to support the improvements of digital skills for charities**. The Digital Leadership Fund aims to give English civil society leaders' free access to digital training, to boost their competences.

Applications for projects aiming to include digital skills in their training courses should be between £10,000 and £170,000 and applicants have to be based in England. Private sector organisations, charities, community-led

businesses, social enterprises, public sector organisations and community organisations are eligible to apply (individually or in consortia).

Related Links:

Skills Platform (2018) 'The charity digital skills report' [online]. Available at:

http://report.skillsplatform.org/charitydigitalreport-overview-2018/?_ga=2.120246600.1797502202.1543327378-2004710597.1543327378 [accessed 2 January 2019]

GOV.UK, Department for Digital, Culture, Media & Sport, Office for Civil Society, The Rt Hon Jeremy Wright MP, and Mims Davies MP (2018) Press release: 'Government supports charities to go digital' [GOV.UK > Home > Society and culture > Digital inclusion and accessibility] GOV.UK [online]. Available at:

www.gov.uk/government/news/government-supports-charities-to-go-digital [accessed 2 January 2019]

GOV.UK, Department for Digital, Culture, Media & Sport, Office for Civil Society, Mims Davies MP, and Margot James MP (2018) Form: 'Digital Leadership Fund application form' [GOV.UK > Home > Society and culture > Digital inclusion and accessibility] GOV.UK [online]. Available at: www.gov.uk/government/publications/digital-leadership-fund-application-form [accessed 2 January 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 383**, 30 November 2018, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2019]

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

www.theheritagealliance.org.uk/update/ [accessed 2 January 2019].

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'Raynsford Review of Planning in England' launched

On Tuesday 20 November 2018 the **Raynsford Review of Planning in England** was published. The review, produced by the Town and Country Planning Association, aims to investigate the current state of planning and to highlight the strengths and weaknesses of the system, as well as the lessons learned both from previous reviews and other international experiences. The final part of the review aims to address the problems identified, by providing recommendations for all the actors involved in the English planning system.

Related Links:

TCPA – Town and Country Planning Association (2018) 'The Raynsford Review of Planning' [online]. Available at: www.tcpa.org.uk/raynsford-review [accessed 2 January 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 383**, 30 November 2018, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2019]

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

www.theheritagealliance.org.uk/update/ [accessed 2 January 2019].

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Regenerating high streets: the Open Doors Pilot Project

In the wider framework of the Government's policies aimed at regenerating high streets, the **Open Doors Pilot Project** aims to support community groups as well as landlords struggling to find tenants for their empty properties. It proposes to fund the temporary use of premises by small charities and community groups who often struggle to pay rents on town centre premises.

The first phase, now launched, will identify suitable landlords and properties. A second phase will ask the small organisations to come forward and proposals to use these spaces for the benefit of the local communities.

This commitment of the Government to the regeneration of high streets was also confirmed in the Autumn Budget 2018 (read the Heritage Alliance summary within the source provided below). The Open Door Pilot will be a great opportunity for small charities in the heritage sector to find their space in the town centres, in the heart of their communities.

Related Link:

GOV.UK, Ministry of Housing, Communities & Local Government (2018) Guidance – 'Open Doors pilot: call for landlords' [online]. Available at: [www.gov.uk/government/publications/open-doors-pilot-call-for-](http://www.gov.uk/government/publications/open-doors-pilot-call-for-landlords)

[landlords?utm_source=a500b243-151e-43ef-bc17-97785bdf398&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate](https://www.theheritagealliance.org.uk/landlords?utm_source=a500b243-151e-43ef-bc17-97785bdf398&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate) [accessed 2 January 2019]

Heritage Update (2018) 'Autumn Budget 2018: summary' [online]. Available at: <https://www.theheritagealliance.org.uk/update/autumn-budget-2018-summary/> [accessed 2 January 2019]

Further information is available at:

Source: Heritage Update e-Bulletin [online], Issue **No 383**, 30 November 2018, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 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 2 January 2019] and

Open Praxis Archives [online]. Further information available at <http://openpraxis.org/index.php/OpenPraxis/issue/archive> [accessed 2 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 2 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 look into 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 2 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 involve 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 2 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. In order to have a better output the higher education institutions 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 masters 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 2 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 2 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. A number of 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 2 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 2 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 2 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 2 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 [accessed 2 January 2019]

EURODL (European Journal of Open, Distance and E-Learning) – Overview [online]. Available at: www.eurodl.org/ and <https://content.sciendo.com/view/journals/eurodl/eurodl-overview.xml> [accessed 2 January 2019]

Most downloaded articles (as of 21 December 2018) incl.

1. Predicting Dropout Student: An Application of Data Mining Methods in an Online Education Program by Yukselturk E [et al.]
2. Exploring the Factors Associated with MOOC Engagement, Retention and the Wider Benefits for Learners by Petronzi D and Hadi M
3. Cross-Cultural Communication and Collaboration: Case of an International e-Learning Project by Toprak E and Genc-Kumtepe E
4. Research Trends in Turkish Distance Education: A Content Analysis of Dissertations, 1986-2014 by Bozkurt, A [et al.]
5. Aesthetic Literacy: Observable Phenomena and Pedagogical Applications for Mobile Lifelong Learning (MLLL) by Callagher M S and Ihanainen P

6. Learning Innovation: A Framework for Transformation by Salmon G
 7. Learners on the Periphery: Lurkers as Invisible Learners by Honeychurch S [et al.]
 8. The Flipped-Classroom Approach: The Answer to Future Learning? By Kurtz G, Tsimerman A [et al.]
 9. Distance Education for People with Visual Impairments, by Liakou M and Manousou E
 10. A Systematics Review of the Socio-Ethical Aspects of Massive Online Open Courses, by Rolfe V
- 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 2 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.

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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 2 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1584> [accessed 2 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 2 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1517> [accessed 2 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 2 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1511> [accessed 2 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 2 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1518> [accessed 2 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 values 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 2 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1503> [accessed 2 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 in 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.I.], 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1515> [accessed 2 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1515> [accessed 2 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 a large number of 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.I.], 22(4). ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1516> [accessed 2 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1516>. [accessed 2 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 (Willing & 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 2 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1591> [accessed 2 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 2 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1207> [accessed 2 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 Construction 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 2 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1297> [accessed 2 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 (χ^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 2 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1389> [accessed 2 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 2 January 2019]. doi: <http://dx.doi.org/10.24059/olj.v22i4.1384>. [accessed 2 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^2 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 2 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 2 January 2019]. **JOLT**, MERLOT’s Journal for Online Learning and Teaching [online] and available at: <http://jolt.merlot.org/index.html> [accessed 2 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 2 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 2 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 [accessed 2 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 2 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 [accessed 2 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 [accessed 2 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 2 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 2 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 [accessed 2 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 2 January 2019].

Related links:

Open University (OU) UK [online] and available at: www.open.ac.uk/ [accessed 21 December 2018]

Open University (OU) UK, Institute of Education Technology [online] and available at: www.open.ac.uk/iet/main/ [accessed 2 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 2/01/2018):

- **12,436** journals
- **9,493** journals searchable at article level
- **129** countries
- **3,628,853** articles



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 [accessed 2 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 2 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 2 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 2 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 2 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.

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 [accessed 2 January 2019]

Example information/ research articles/papers in the most recent issue:

Research:

- Development and visualisation of time-based building energy performance metrics

Ozkan A, Kesik T, [et al.] (2019) '**Development and visualization of time-based building energy performance metrics**', *Building Research & Information*, 47(5), pp493-517, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1451959](https://doi.org/10.1080/09613218.2018.1451959) [accessed 2 January 2019]

- Text-mining building maintenance work order for component fault frequency

Gunay H B, Shen W and Yang C (2019) '**Text-mining building maintenance work orders for component fault frequency**', *Building Research & Information*, 47(5), pp518-533, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1459004](https://doi.org/10.1080/09613218.2018.1459004) [accessed 2 January 2019]

- Analysing user preferences for co-working space characteristics

Weijs-Perrée M, van de Koeveering J, [et al.] (2019) '**Analysing user preferences for co-working space characteristics**', *Building Research & Information*, 47(5), pp534-548, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1463750](https://doi.org/10.1080/09613218.2018.1463750) [accessed 2 January 2019]

- Building energy performance: sphere area as a fair normalization concept

Bracke W, Delghust M, [et al.] (2019) '**Building energy performance: sphere area as a fair normalization concept**', *Building Research & Information*, 47(5), pp549-566, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1467703](https://doi.org/10.1080/09613218.2018.1467703) [accessed 2 January 2019]

- Protection value and functional service life of heritage timber buildings

Prieto A J, Vázquez V, [et al.] (2019) '**Protection value and functional service life of heritage timber buildings**', *Building Research & Information*, 47(5), pp567-584, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2017.1404827](https://doi.org/10.1080/09613218.2017.1404827) [accessed 2 January 2019]

- Householders co-managing energy systems: space for collaboration?

Smale R, Spaargaren G, and van Vliet B (2019) '**Householders co-managing energy systems: space for collaboration?**', *Building Research & Information*, 47(5), pp585-597, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2019.1540548](https://doi.org/10.1080/09613218.2019.1540548) [accessed 2 January 2019]

Information

- **The role of social sustainability in building assessment**

Stender M, and Walter A (2019) **'The role of social sustainability in building assessment'**, *Building Research & Information*, 47(5), pp598-610, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1468057](https://doi.org/10.1080/09613218.2018.1468057) [accessed 2 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(5), 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 2 January 2019]

- **Clearing the air on EU guidance projects for school buildings**

Camacho-Montano S C, Wagner A, [et al.] (2019) **'Clearing the air on EU guidance projects for school buildings'**, *Building Research & Information*, 47(5), pp624-634, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1448961](https://doi.org/10.1080/09613218.2018.1448961) [accessed 2 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 [accessed 2 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 2 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 2 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 2 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 2 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.

A	Accounting Education (JAI)	F	'Foresight', an international bi-monthly journal concerned with the study of the future
B	Building Research and Information	H	International Journal of Housing Markets and Analysis
	Business and Management in Higher Education (BMHE)	I	Internet Research
	Business Economics		Interactive Technology and Smart Education
	Journal of Economic Studies	L	Landlord and Tenant Review
C	Campus-Wide Information Systems		International Journal of Law and Management
	Construction Management & Economics		International Journal of Law in the Built Environment
	Construction Innovation: Information, Process, Management		International Journal of Law and Management
	Construction Law Journal and Construction Newsletter	M	Journal of Management and Sustainability
	Construction Management and Economics		Management Research Review
	Construction Newsletter		International Marketing Review
	Journal of Construction Research	O	Journal of Online Learning and Teaching (JOLT)
D	Development and Learning in Organisations		Open Praxis , a peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education.
	International Journal of Disaster Resilience in the Built Environment		International Journal of Organisational Analysis
	Disaster Prevention and Management	P	Journal of Planning and Environmental Law
E	Oxford Bulletin of Economics and Statistics		Practice-based Learning
	Journal of Economic Education		Journal of Property Investment and Finance (Previously published as: Journal of Property Valuation and Investment)
	Journal of Economic Literature		Property Law Bulletin
	Education + Training		Property Management
	Journal for Education in the Built Environment , The		Journal of Property Research

	International Journal of Educational Management	Q	Quality Assurance in Education
	Energy, Sustainability and Society	R	Real Estate Economics
	Enhancing Learning in the Social Sciences (EliSS)		Journal of Real Estate Portfolio Management
	Engineering, Construction and Architectural Management		Journal of Real Estate Research
	Engineering Education		Reference Services Review
F	Facilities		Journal of Research in Interactive Marketing
	Journal of Facilities Management	S	Smart and Sustainable Built Environment
	Financial Accountability and Management		Structural Survey
	Journal of Financial Management of Property and Construction		Sustainability
	Financial Practice and Education		Journal of Sustainable Development
Special issues:			
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]	
Sustainability [12/13]		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 in order 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.

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 2 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 2 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 2 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 2 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 2/01/2019):

- **13,253** Academic peer-reviewed books from
- **285** publishers

The Directory of Open Access Books (DOAB) www.doabooks.org/doab [accessed 2 January 2019]

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Further information is available at: www.elsevier.com/ [accessed 2 January 2019]

LawTrove [online]. Further information is available at: www.oxfordlawtrove.com/ [accessed 2 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/ [accessed 2 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 [accessed 2 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 [accessed 2 January 2019]

Latest info: Property and Real Estate catalogue [online] and available at: www.routledge.com/collections/4812 [accessed 2 January 2019]

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- Research Methods - www.routledge.com/research-methods

[websites correct as at 2 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 [accessed 2 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 [accessed 26 November 2018] and <http://eu.wiley.com/WileyCDA/> [accessed 2 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 21 December 2018]

Wiley Open Access [online]. Further information is available at: <http://olabout.wiley.com/WileyCDA/Section/id-406071.html> [accessed 2 January 2019]

- Business and Management [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000028> [accessed 2 January 2019]
- Economics [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000047> [accessed 2 January 2019]
- Law [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000076> [accessed 2 January 2019]

- Civil Engineering and Construction [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000034> [accessed 2 January 2019]

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Source: Salmon, Prof. G., (2013), *E-tivities*, London, Routledge.

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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 [accessed 2 January 2019]

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Further guidance on Copyright and Digital Copyright incl.

- What is copyright? @ www.cla.co.uk/what-is-copyright [accessed 2 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, and www.cla.co.uk/ [accessed 2 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, 18th 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/ [accessed 2 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 [accessed 2 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/ [accessed 2 January 2019]

The Guardian Online (2018) European Commission [online]. Available at: www.theguardian.com/world/european-commission [accessed 2 January 2019]

The Guardian Online (2018) Europe [online]. Available at: <https://www.theguardian.com/world/europe-news> [accessed 2 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 [accessed 2 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/ [accessed 2 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 [accessed 2 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 [accessed 2 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/ [accessed 2 January 2019].

Related Links:

Following on from the earlier comment relating to GDPR in the UK after Brexit, on 13th 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 [accessed 2 January 2019]

& other related links:

EUGDOR.org portal (2018) 'GDPR Key Changes' [online]. Available at: www.eugdpr.org/key-changes.html [accessed 2 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 [accessed 2 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
[www.designingbuildings.co.uk/wiki/General_Data_Protection_Regulations_\(GDPR\)](http://www.designingbuildings.co.uk/wiki/General_Data_Protection_Regulations_(GDPR)) [accessed 2 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 into 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 manage 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 2 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 2 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 2 January 2019]

Korn N (2018) '**GDPR: What you can do now?**' [online], Naomi Korn Copyright and Compliance blog, 1st April. Available at: <https://naomikorn.com/blog/> [accessed 2 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 [accessed 2 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-abe1-85b07a4a97a5&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate [accessed 2 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 [accessed 2 January 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 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 [accessed 2 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 [accessed 2 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/

Health and Safety in Construction - www.hse.gov.uk/pubns/books/hsg150.htm

HSE Publications: Free Leaflets – Construction www.hse.gov.uk/pubns/conindex.htm

Construction (Design and Management) Regulations 2015 - www.hse.gov.uk/construction/cdm/2015/index.htm

Statistics – Industries www.hse.gov.uk/STATISTICS/industry/index.htm

Statistics - Construction Industry www.hse.gov.uk/STATISTICS/industry/construction/index.htm

Fatal injury statistics, summary for 2017/18 www.hse.gov.uk/statistics/fatals.htm

Latest quarterly fatal injury figures for 2017/18 www.hse.gov.uk/statistics/fatalquarterly.htm

[N.B. Websites accessed 2 January 2019]

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2. **Revo** – [Retail. Property. Community.](#)

Formerly British Council of Shopping Centres, the BCSC 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 21 December 2018]
- **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 [accessed 21 December 2018]

Source: British Council of Shopping Centres (BCSC), now **Revo - Retail. Property. Community** [online]. Available at: www.revocommunity.org/ [accessed 2 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 & NBS homepage [online] and available at: www.thenbs.com/ & NBS Knowledge [online] and available at: www.thenbs.com/topics/index.asp [accessed 2 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

& NBS homepage [online] and available at: www.thenbs.com/ ,

& NBS Knowledge [online] and available at: www.thenbs.com/topics/index.asp [accessed 2 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 [accessed 2 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/ [accessed 2 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/ [accessed 2 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 2 January 2019]

RICS Library Services [online]. Available at: www.rics.org/uk/footer/library-services/ [accessed 2 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 2 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 [accessed 2 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 [accessed 2 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 2 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 [accessed 2 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 [accessed 2 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 [accessed 2 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 2 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 2 January 2019]
- **BRE Expertise** incl. BIM, Fire, Resilience, Security, Energy, Innovation, Safety, and Sustainability [online]. Available at: <https://bregroup.com/expertise/> [accessed 2 January 2019]
- **BRE Sectors** Incl. Property, Product manufacturing, and Construction [online]. Available at: <https://bregroup.com/sectors/> [accessed 2 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 2 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 2 January 2019]

Building Research Establishment (BRE) [online] and available @ <https://bregroup.com/> [accessed 2 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 2 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 2 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 2 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 [accessed 21 December 2018]

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 2 January 2019] for full details.

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Also, please note:

Top 20 Urban Planning Websites of 2017

- 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 2 January 2019]

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UCEM e-Library portrait

UCEM e-Library portrait @ <https://www.ucem.ac.uk/supported-online-learning/elibrary/> [accessed 2 January 2019]



As of **December 2018**, a search of 'construction' on the internet produces over **3,050,000,000 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.

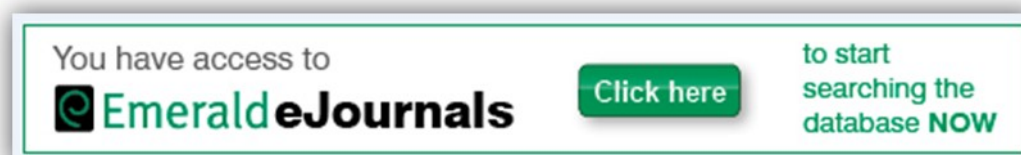
The UCEM e-Library can:

- 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.



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 ?

Or access the e-library online. Available @ www.ucem.ac.uk [accessed 2 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, 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 2 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 [accessed 2 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 2 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 2 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/ [accessed 2 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 – [RICS Red Book UK National Supplement](#)

This week Property Elite are looking at the new RICS Red Book UK National Supplement, which will be a hot topic for the Spring 2019 RICS APC final assessment interviews.

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.

RICS Red Book UK National Supplement

What’s new? RICS have published **RICS Valuation – Global Standards 2017 – UK National Supplement** to replace the previous 2014 edition.

What does this apply from? 14 January 2019.

Why is there a separate UK edition? To provide advice on specific requirements and supporting guidance on the application of the global Red Book to UK valuation work.

Both need to be read together, i.e. the UK edition does not replace the global Red Book, although some elements of it may supplement or modify the global guidance.

How is the new UK supplement structured? The new supplement is split into mandatory and advisory sections:

- UK Professional and Valuation Technical & Performance Standards (UK PS and VPS) – Mandatory
- UK Valuation Practice Guidance Applications (VPGAs) – Advisory

Areas covered incl.

Which sections are mandatory?

Which sections are advisory? and

What are the key changes? Incl.

- Re-ordering of the guidance and minor changes to the various component sections
- Changes to IFRS 16 reflected, a separate global Guidance Note is also likely to be issued
- Guidance on the DRC method of valuation for financial reporting incorporating published as a separate UK Guidance Note (1st Edition)
- Former UKGN 4 archived due to overlaps with VPS2 and VPGA 8 of the Global Red Book and other associated RICS guidance
- UKGN 6 retired for review, with the intention of it being published as a separate Guidance Note
- UK VPGA 10 and 16 introduced relating to commercial secured lending and valuations for compulsory purchase and statutory compensation respectively

N.B. nothing in this article constitutes legal advice.

Source: Lemen-Hogarth J (2018) *Hot Topic Highlight – RICS Red Book UK National Supplement* [online], Property Elite LLP. Available at:

<https://property-elite.co.uk/blog/hot-topic-highlight-uk-red-book-national-supplement> [accessed 21 December 2018]

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 [accessed 2 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 2 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 2 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 [accessed 2 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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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 [accessed 2 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

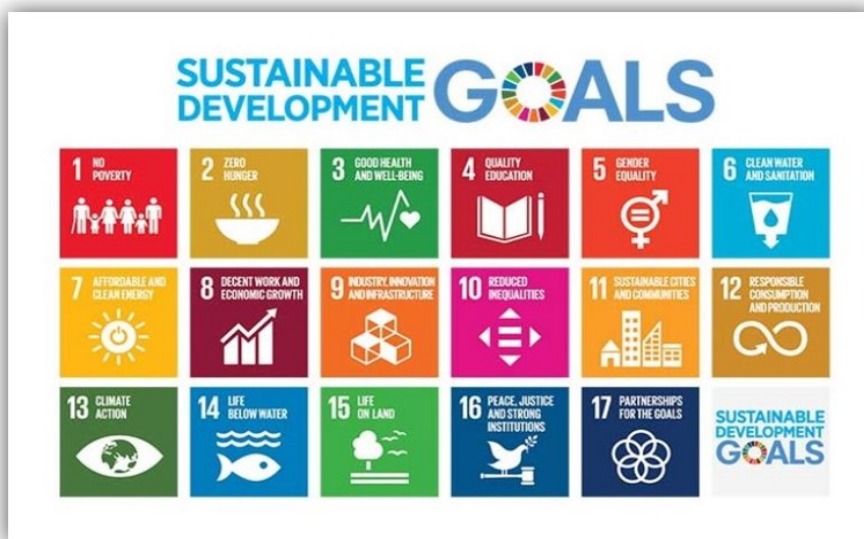
This and further information is available at

Source: **BRE / Sustainability** [online] and available @ <https://bregroup.com/expertise/sustainability/> [accessed 2 January 2019]

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[Forgetting the big picture when considering sustainability](#)

Why do we consistently get lost in the detail and forget the bigger picture when considering sustainability? James York, Costain Group Corporate Responsibility Manager, considers this question.



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 [accessed 2 January 2019]

A recurring sustainability conversation I find myself involved in is around Costain's company car fleet. This conversation normally starts with: "If Costain are serious about reducing CO2 emissions why do we not have Teslas (of other electric vehicles) in our company car fleet?" I believe this conversation occurs because people don't fully understand what sustainability really is.

My initial response in this conversation is to accept that we could spend more money on our car fleet, perhaps making some difference to our total emissions. I do stress through that while I too would like a Tesla, we have missed the bigger picture. Surely, we should be thinking about alternative ways to travel or even better, using the technology that we all have available to us to prevent the need to travel at all?

The conversation ends with me suggesting that we did have additional resource to spend on a lower emitting car fleet, I still wouldn't spend the money on premium electric vehicles.

This often raises eyebrows until I explain that if we were investing an arbitrary sum of £500,000 in research on carbon capture on HGV platooning we could potentially make a much more significant and sustainable impact to UK CO2 emissions.

If you take out the specific details of this conversation, the theme of delving straight into the micro level detail is very common and as such also clouds our understanding of how we all contribute to the UN Sustainability Goals (SDGs).

I don't mind admitting that I too also found myself lost in the detail of all 17 SDGs, trying to develop plans for each goal. While my approach was not wrong, and we do as an industry all contribute directly or indirectly to all 17 goals, our biggest influence is with 3, perhaps 4 – depending on your business.

By having a clear focus towards the SDGs that directly align with your company's purpose you can begin to contribute to national solutions for the SDGs that I believe are most important for our industry: clean water and sanitation (SDG6), affordable clean energy (SDG7) and industry, innovation and infrastructure (SDG9).

So, the next time someone asks you what sustainability means, celebrate the amazing contribution engineers play towards the UN SDGs and avoid the temptation of going into the detail.

Once of the challenges I face as a sustainability professional is communicating such a broad spectrum of issues, priorities and the resulting actions that have been taken, to a wide group of stakeholders.

I am really pleased that Costain has released its inaugural sustainability report because this helps me do just that, both within the outside the company. By bringing to life how we are prioritizing material sustainability issues, reporting against our targets and providing context with the SDGs, I hope we can move away from thinking that the best answer to all sustainability questions is always an employee car fleet of Teslas.

In October 2018, ICE together with the World Federation of Engineering Organisations are holding the first Global Engineering Congress to agree a worldwide response to deliver the UN Sustainable Development Goals.

Related Link:

What to expect of sustainability professionals

Source: **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 [accessed 2 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 [accessed 2 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 [accessed 2 January 2019]

NOTE: Use of Wikipedia as a reference site:

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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/ [accessed 2 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 2 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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A

American Society of Civil Engineers (ASCE) Civil Engineering database www.asce.org/ [accessed 2 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 [accessed 2 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 [accessed 18 December 2018]. **ARCOM Newsletters** - contains the latest news from the industry [online]. Available at: www.arcom.ac.uk/newsletters.php [accessed 2 January 2019]

B

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BAILLI Case Law Search (British and Irish Legal Information Institute) [online]. Further information available at: www.bailii.org/form/search_cases.html [accessed 2 January 2019]

BBC Education [online]. Further information available at: www.bbc.co.uk/news/education/ [accessed 2 January 2019]

BBC Search [online]. Further information available at: www.bbc.co.uk/search/ [accessed 2 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/ [accessed 2 January 2019]

BCSC Research + Education Document listing – Now REVO [online] and available at: www.revocommunity.org/documents/list [accessed 2 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 is now part of the **Centre for Digital Built Britain (CDBB)** [online]. Further information is available at: www.cdbb.cam.ac.uk/AboutDBB/FAQs [accessed 2 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 2 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 [accessed 2 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 [accessed 2 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 2 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 [accessed 2 January 2019]

BRE Case Studies [online]. Further information is available at: www.bre.co.uk/podpage.jsp?id=1744 [accessed 2 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/ [accessed 2 January 2019]

Builder and engineer [online]. Available at: 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/ and Articles directory by subject @ www.buildingconservation.com/articles/articles.htm [accessed 2 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 [accessed 2 January 2019]

Building talks [online]. Available at: www.buildingtalk.com [accessed 2 January 2019] *Building Talks* is an email newsletter for Architects, Civil Engineers and Building Services Contractors.

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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 at www1.uwe.ac.uk/et/research/caber.aspx [accessed 2 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 2 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/ [accessed 2 January 2019]

CBI Construction Section [online]. Available at: www.cbi.org.uk/business-issues/construction/ [accessed 2 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 [accessed 2 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 [accessed 2 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/ [accessed 21 December 2018] 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 2 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/ [accessed 2 January 2019]

CIOB Insight Incl. Library and Information Services [online]. Available at: www.ciob.org.uk/library [accessed 2 January 2019]

CIOB – Construction Manager [online]. Available at: www.constructionmanagemagazine.com/ [accessed 2 January 2019]

CIOB – Global Construction Review [online]. Available at: www.globalconstructionreview.com/ [accessed 2 January 2019]

CIOB – Policy and Public Affairs portal [online]. Available at: <http://policy.ciob.org/> [accessed 2 January 2019]

CIRIA – The Construction Industry Research and Information Association and CIRIA Resources [online]. Further information is available at: www.ciria.org/default.aspx [accessed 2 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/ [accessed 2 January 2019]

Cities / buildings images database [online]. Available at: www.washington.edu/ark2 [accessed 2 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 2 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 2 January 2019]

Construction Enquirer – The best-read news website in construction [online]. Available at www.constructionenquirer.com [accessed 2 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/ [accessed 2 January 2019].

Construction News [online]. Available at www.cnplus.co.uk [accessed 2 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/ [accessed 2 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 2 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 2 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 2 January 2019]

COTAC Digital Bibliography [online]. Available at: www.cotac.org.uk/digital_bib/ [accessed 2 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/ [accessed 2 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 [accessed 2 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 2 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/ [accessed 2 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 [accessed 2 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/ [accessed 2 January 2019]

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The **Design Council** champions great design that improves lives and makes things better [online] and available @ www.designcouncil.org.uk/ [accessed 2 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 [accessed 2 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 [accessed 2 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 [accessed 2 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 2 January 2019]

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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 [accessed 2 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/ [accessed 2 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/ [accessed 2 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 [accessed 2 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/ [accessed 21 December 2018]. **ERES Digital Library** [online] and available at <http://eres.scix.net/cgi-bin/works/Home> [accessed 2 January 2019]

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Great Buildings [Online]. Available at: www.greatbuildings.com [accessed 2 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/ [accessed 2 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/ [accessed 2 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/ [accessed 2 January 2019]

The Guardian, Higher Education network [online]. Available at: www.guardian.co.uk/higher-education-network [accessed 2 January 2019]

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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 [accessed 2 January 2019] and **HSE – Health & Safety in the construction industry** [online] is available @ www.hse.gov.uk/construction/ [accessed 2 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 [accessed 2 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/ [accessed 2 January 2019]

Heritage Alliance's Heritage Update E-Bulletin [online]. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 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/ [accessed 2 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 2 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/ [accessed 2 January 2019] and **HEA Knowledge HUB** [online] and available at: www.heacademy.ac.uk/hub [accessed 2 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 2 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/ [accessed 2 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/ [accessed 2 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 2 January 2019]

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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/ [accessed 2 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/ [accessed 2 January 2019]

ICE Virtual Library [online]. Available at: www.icevirtuallibrary.com [accessed 2 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 [accessed 2 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 [accessed 2 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 [accessed 2 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/ [accessed 2 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/ [accessed 2 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 [accessed 2 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 2 January 2019]

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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 2 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 [accessed 2 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 [accessed 2 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 [accessed 2 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 [accessed 2 January 2019] where you can also gain access to JISC's full digital resources offer.

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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/ [accessed 2 January 2019]. **CeBE's Virtual Site Gallery** contains construction details, case studies, site photographs, and plant details @ www.leedsbeckett.ac.uk/teaching/vsite/gallery/ [accessed 2 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/ [accessed 2 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 2 January 2019]

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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 [accessed 2 January 2019] developed and provided free access to MERLOT at www.merlot.org [accessed 2 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 2 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).

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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 [accessed 2 January 2019], NBS homepage is available at: www.thenbs.com/ [accessed 2 January 2019], and NBS Knowledge [online] is available at: www.thenbs.com/knowledge [accessed 2 January 2019]

National Building Specification (NBS) > Home > Publication Index [online]. Available at: www.thenbs.com/PublicationIndex/Publisher/Index?FirstLet=B [accessed 2 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/ [accessed 2 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/ [accessed 2 January 2019]

National Trust's Land use & planning [online]. Available at: www.nationaltrust.org.uk/what-we-do/big-issues/land-use-and-planning/ [accessed 2 January 2019]

NCE [online]. Available at: www.nce.co.uk [accessed 2 January 2019] is the official website of the **New Civil Engineer**, a weekly magazine published for the ICE.

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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 [accessed 2 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 [accessed 2 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 2 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 2 January 2019]

OLC's Online Learning – the official journal of the Online Learning Consortium [online]. Available at: <http://onlinelearningconsortium.org/read/> [accessed 2 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 2 January 2019]

Open University (OU) UK [online] and available at: www.open.ac.uk/ [accessed 2 January 2019]

Open University (OU) UK, Institute of Education Technology [online] and available at: www.open.ac.uk/iet/main/ [accessed 2 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].

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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 2 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/ [accessed 2 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 [accessed 2 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/ [accessed 2 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 2 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.ppnonline.co.uk/ [accessed 2 January 2019]

Property Week – Commercial property news [online]. Available at: www.propertyweek.com/ [accessed 2 January 2019]

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Regeneration and Renewal – Placemaking Resources incorporating *Regeneration & Renewal* magazine blog [online]. Available at: <http://regen.net/home/> and www.placemakingresource.com/ [accessed 2 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/ [accessed 2 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/ [accessed 2 January 2019]

RICS > News & Insights [online]. Available at: www.rics.org/uk/news-insight/ [accessed 2 January 2019]

RICS > Upholding Professional Standards [online]. Available at: www.rics.org/uk/upholding-professional-standards/ [accessed 2 January 2019]

RICS Library services [online]. Available at: www.rics.org/uk/footer/library-services/ [accessed 2 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 2 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/ [accessed 2 January 2019]

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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 [accessed 2 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 2 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 [accessed 2 January 2019]

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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/ [accessed 2 January 2019]

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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/ [accessed 2 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 [accessed 2 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 [accessed 2 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 [accessed 2 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 [accessed 2 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 2 January 2019].

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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/ [accessed 2 January 2019]

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 2 January 2019]

The web-links provided were correct at time of compilation.

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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](#)



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Student Central

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