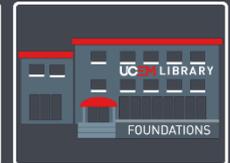
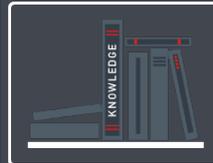


PLEASE NOTE: This document is over 125 pages long. Please consider the environment before printing this document. Please do not let over 100 pages put you off ... there is a contents page to help you select and easily navigate towards areas of most interest.

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

UCEM UNIVERSITY COLLEGE
OF ESTATE MANAGEMENT

Knowledge Foundations



June 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](#)

Contents

[Welcome to Knowledge Foundations](#) (formerly the UCEM Library e-bulletin) – a compendium of news & views, research & resources



Latest UCEM news

[Come and meet us in Reading, London, Birmingham, Bristol or Manchester!](#)

[Watch the presentations from our centenary event at The Crystal!](#)

[UCEM student wins UK real estate award](#)

[UCEM's April 2019 centenary newsletter published!](#)

[His Royal Highness, The Prince of Wales visits UCEM to mark its centenary year](#)

[UCEM's widening participation ambitions boosted by acquisition of Built Environment digital network](#)

[Further news stories from the University College of Estate Management \(UCEM\)](#) incl. features, research published and a presence + voice at conferences.



Other news

[Things you need to know this week](#): Ebbsfleet Development Corporation buys first sites - The biggest *Placemaking Resource* (incorporating *Regeneration + Renewal*) hitting the news are shared. In this article, Land deals are intended to improve infrastructure links and help diversify the housing offer at Ebbsfleet's growing garden city.

[Case Study](#): Creating new housing with local character

[Analysis](#): Councils step up interest in housebuilding

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

Latest Data Protection News and Research:

- Latest news: [Data Protection and Brexit – is your organisation prepared?](#)
- General Data Protection Regulation (GDPR) – [What's new](#),
- [Related resource links and further information on Data Protection](#) (Incl. Re: UCEM), and
- [Construction firms hit by massive summer surge in cyber-attacks](#)

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

Grenfell Tower fire – Latest developments / outcomes from

- [Grenfell Tower inquiry report delayed until October 2019](#)
- [Addressing building failures: Grenfell Tower and Edinburgh schools](#)
- [GOV.UK – Information relating to the fire at Grenfell Tower.](#)

Other News and Views cont.

[The rise of construction robotics](#)

[Boost for housing market as Japan's biggest housebuilder, Sekisui House, moves into UK](#)

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

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

Construction Manager – [Construction's gender imbalance revealed](#)

[Construction needs 168,500 more workers by 2023](#)

Brexit/Brextension – [Leaving the EU: advice for businesses](#)

[Falling sales leave house price hopes at a 20-year low 'thanks to Brexit uncertainty', says RICS estate agents](#)

[Brexit: Jargon-busting guide to the key terms](#)

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

[Research reveals rising council support for community-led housing](#)

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

[RICS Market Surveys, April 2019](#) – RICS UK Construction and Infrastructure Market Survey: Q1 2019

[Selecting benchmark building prices & further information on RICS's Building Cost Information Service \(BCIS\)](#)

[BCIS Schedules of rates updated for 2019](#)

Tackling mental health in the workplace and wellbeing with the Construction Industry –

- [Wellbeing considerations for property managers](#)
- [Revaluing Parks and Green Spaces – Measuring their economic and wellbeing](#) – Latest research from Fields in Trust

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

[Framing toolkit: Talking about poverty](#) – This JRF toolkit explains what framing is, why they're using it, and how you and I can put it into action

[Households below a Minimum Income Standard: 2008/09-2016/17](#) - Latest research from Loughborough University and funded by JRF

[House-building boosts construction activity but infrastructure projects fail to materialise](#)

[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](#) – Publication / *Spotlight: Planning and housing delivery* – May 2019
- [Residential research](#) – Publication / *Prime UK Residential* – May 2019
- [Commercial research](#) – Publication / *Spotlight: Shopping Centre and High Street Investment* – May 2019
- [Rural Research](#) – Publication / *Spotlight: Viticulture in the UK* – May 2019
- [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](#)
- [Press Release: Combined Action Needed to Tackle Severe Skills Shortages](#)
- [Construction and the Modern Slavery Act: Tackling Exploitation in the UK](#)
- [CIOB, RIBA and RICS collaborate on initiative to improve building quality](#)

Latest information on Apprenticeships incl.

- [Apprenticeships starts rise for first time since levy launch](#)
- [Develop talent for your business](#) - Further information on UCEM Apprenticeship programme
- Need to know: [Apprenticeship levy FAQs](#)
- [UCEM Accreditation and recognition](#)

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

- [Further information on 'Designing Buildings Wiki'](#), featured articles, and news,

- [‘Designing Buildings Wiki’](#) presents the most popular articles in each of the 32 subject areas, and for 2018 the most read (at over 150,000 times) was entitled, ‘Types of drawings for building design’,
- [Fragmentation of the UK construction industry](#),
- [A-Z of Construction industry institutes and associations](#), and
- [Student resources including a wide range of resources aimed at students of the built environment](#).

The Construction Information Service - *CIS Insight 05/2019 May Edition* –

- [CIS Insight \(05/2019 Edition\) – ‘Building Regulations explained’](#). Building Regulations are national building standards that Parliament legislates in order to protect the public interest and ensure building works meet a specified level of safety and quality. This article explores UK and ROI building regulations and provides information around the current legislation,

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.

- [The unspoken decline of outer London – Why is poverty and inequality increasing in outer London and what needs to change?](#)
- [Spending fairly, Spending well: time for a radical overhaul of value for money and public audit](#),
- [Safe as Houses 2: A follow-on report into the impact of Universal Credit on Southwark Council’s housing tenants rent payment behaviour](#), and
- [#notjustforboys / women in construction](#). **Related links -**

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

Construction company rolls out first inclusive ‘at work’ signs – The New York Post

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? A Step-by-step guide to using BIM on projects
- 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) Survey 2019**', and previous BIM Reports incl. New International Standards and BIM Reports in full,
- Blogging about BIM, Construction and NBS.

[Latest news on BIM](#) – PlanRadar project management software launches in the UK

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](#)

[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

[Seven of the most outrageous design proposals for Notre-Dame](#), and related link -

Notre Dame fire – What the Notre Dame restoration will have to consider



Property and Construction Statistics

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

- [RICS UK Economy and Property Market Chart Book \(Q2, 2019\)](#) – Economy will struggle for momentum until Brexit is sorted
- [UK Residential Market Survey \(April 2019\)](#)

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

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: March 2019](#)
- [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 – May 2019: The Coastal Issue
- Latest 2019 issue of [Contractors World International](#) (Vol 9, No 1) incl. UK: World famous landmark undergoes renovation, and Potholes – Fighting a losing battle

- Institute of Workplace and Facilities Management (IWFM) Digital Magazine – [facilitate](#), May 2019: the latest issue. The latest workplace and facilities management news, covering professional development, the outsourced service sector, market analysis, legislation and key business reports.
- The Heritage Alliance's latest '[Heritage Update](#)' e-Bulletin (April, 2019) – The e-Bulletin provides current awareness and industry news over a number of built environment-related fields incl. 'April HeritageChat: 'How can we improve the legacies of archaeological community engagement in place making?' – Heritage Chat Summary Now Online'; 'The Environment Audit Committee's pre-legislative scrutiny of the draft Environment (Governance and Principles) Bill has been published'; 'UK Offers help in restoring Notre Dame after the devastating fire'; 'EU Ministers of Culture stressed the importance of the cultural and creative sectors'; 'UK local authority culture spend 'smallest in Europe'; 'Government launches £3 million scheme to regenerate village halls'; 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 (Jan - March 2019) incl. 'Challenges Faced by Adult Learners in Online Distance Education: A Literature Review'; 'The Complexity of Transnational Distance Students: A Review of the Literature'; 'Dropout patterns and cultural context in online networked learning spaces', 'Open Practices in Publish Higher Education in Portugal: faculty perspectives'; '“I find the whole enterprise daunting”': Staff understanding of Open Education initiatives within a UK university'; 'But What Do The Students Think: Results of the CUNY Cross-Campus Zero-Textbook Cost Student Survey'; and 'Self-study with the Educational Technology Tell Me More: What EFL Learners do'.
- [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 23, No 1 (2019)) incl. : Cultural and International perspectives - 'Interculturality in Online Learning: Instructor and Student Accommodations'; Empirical Studies – 'What if online students take on the responsibility: Students' cognitive presence and peer facilitation techniques'; 'Exploring the relationship of background, technology and motivation variables to business school transfer intent for two mixed course format business undergraduate samples'; 'Reflection in Learning'; 'Self-Determination: Motivational Profiles of Bachelor's Degree Seeking Students at an Online, For-Profit University'; Faculty, Professional Development, and Online Teaching – 'Professional Development – Differences in teachers' attitudes between online and traditional training courses'; 'Teaching to Connect: Community-Building Strategies for the Virtual Classroom'; 'Award-Winning Faculty Online Teaching Practices: Roles and Competencies'; Integrating UDL Strategies into the Online Course Development Process: Instructional Designers' Perspectives'; Review of Literature – 'Doctoral E-mentoring: Current practices and Effective Strategies'; 'Social Network Analysis and Online Learning Communities in Higher Education: A Systematic Literature Review', 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 advice from the Copyright Licensing Agency Ltd \(CLA\)](#)

- Copyright Licensing Agency - [Title search tool](#)
- [Further guidance](#) on Copyright and Digital Copyright incl.
- 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](https://twitter.com/ElizabethLine)

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

House building careers

Access to: RICS Careers

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

[LATEST: Hot Topic Highlight – Fire safety – May 2019](#)

- Property Elite's latest blog post takes a closer look at Fire Safety. Fire safety is an essential component of a number of RICS APC competencies, including Health and Safety, Fire Safety, Construction Technology & Environmental Services, Design & Specification and Legal/Regulatory Compliance. This blog article will give you an overview of fire safety and what you might need to know for your RICS APC. If you are an RICS APC candidate, make sure you are aware of Property Elite's APC Support services, including submission reviews, question packs, revision quizzes and e-mock interviews. Further information is provided below.



[Back to top](#)

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 25 May 2019]. It is also featured within a weekly Information News blog [UCEM Website > Home > News & Events > Blog > Lucy Roper's weekly Built Environment news round-up] @ www.ucem.ac.uk/news-events/blog/ [accessed 25 May 2019]

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

[Back to top](#)



Latest UCEM news

Come and meet us in Reading, London, Birmingham, Bristol or Manchester!

Prospective students are invited to meet members of the team at our open events in Reading, London, Birmingham, Bristol and Manchester.

As well as opening our Reading-based HQ, we will be heading out on the road across England ahead of this autumn's intake period.

Attendees will have the chance to speak to members of our Academic and Admissions Teams, as well as being given a tour of our Virtual Learning Environment (VLE) where all our learning resources are based.

All are welcome to drop in during the allotted time slots and refreshments will be provided too.

UCEM Events and Communications Manager, Lisa Marcham, who is leading on the events, said: "My colleagues and I are looking forward to meeting prospective students to answer any questions they may have and provide a detailed overview of what studying with UCEM is like.

"The events offer a fantastic opportunity to meet some of our Tutors, who manage our programmes and modules and teach our students, and Admissions staff, who are a student's first point of contact when going through the application process.

"It's always enjoyable getting to see our future students face-to-face and learn more about their career path and how they see UCEM playing a role in their development. I hope to see a good number of prospective students at each event. See you all soon!"

The open events ahead of the August and September deadlines for the postgraduate and undergraduate programme applications, respectively are:

- Thursday 6 June, 6-8pm – London Open Evening
- Saturday 8 June, 10.30am-12.30pm – Birmingham Open Morning
- Saturday 15 June, 10.30am-12.30pm – Bristol Open Morning
- Saturday 13 July, 10.30am-12.30pm – Reading Open Morning
- Thursday 18 July, 6-8pm – London Open Evening
- Saturday 20 July, 10.30am-12.30pm – Manchester Open Morning

For more information, visit

UCEM (2019) 'Come and meet us in Reading, London, Birmingham, Bristol or Manchester' [UCEM Website > Home > Come and meet us in Reading, London, Birmingham, Bristol or Manchester!] UCEM Website [online], 9 April. Available at: www.ucem.ac.uk/news-events/news/come-and-meet-us-in-reading-london-birmingham-bristol-or-manchester/ [accessed 25 May 2019]

[Back to top](#)

Watch the presentations from our centenary event at The Crystal!

The livestream recordings of the three panel discussions at our 'The Built Environment of the Future' centenary event at The Crystal are now available.

Either watch them all below or head to our YouTube Channel (provided below) and read the comment below the video which tells you the time codes for each speaker's presentation. For more about the day itself, read out two news stories which round up the key details from the [schools outreach sessions](#) and the [evening industry leaders' session](#).

Session 1 – What is surveying and what opportunities can it bring in the future?

The session was introduced by the Mayor of Newham, Rokhsana Fiaz OBE with the panel discussion chaired by Howard de Walden Estate Chief Executive, Andrew Hynard, who is also a UCEM Trustee. The presenters were: former Head of Commercial Office Business at Landlease, Sherin Aminossehe; Apprentice Surveyor for CBRE

Valuation and Advisory Services, Jessica Austin, and Sovereign Housing's Head of Property Asset Management, Jesse Meek.

Session 2 – What does sustainability mean to the Built Environment?

The session was introduced by UCEM Principal, Ashley Wheaton, with the panel discussion chaired by the Head of Marketing and Communications UK for BNP Paribas Real Estate, Misa von Tunzelman, who like Andrew Hynard, is a UCEM Trustee. The presenters were: Friends of the Earth Chief Executive, Craig Bennett; The Prince's Foundation Senior Director, Ben Bolgar, and Hammerson Plc Group Head of Sustainability, Louise Ellison.

Session 3 – Where next for the Built Environment?

The final panel discussion was chaired by UCEM Principal, Ashley Wheaton, and featured presentations by: CBRE's Head of Strategic Advisory, Amanda Clack; Cast Founding Director and CEO, Mark Farmer; LIQUID Real Estate Innovation and Alpha Property Insight CEO, Dan Hughes; and Bionic City Founder and Futurist, Melissa Sterry.

Further information is available via our **YouTube channel** and **Twitter @** :



www.youtube.com/user/cembuildingfutures/videos [accessed 25 May 2019].



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

For further information please visit:

UCEM (2019) 'Watch the presentations from our centenary event at The Crystal!', [UCEM Website > Home > News & Events > News > Watch the presentations from our centenary event at The Crystal!] UCEM Website [online] 22 May. Available at: www.ucem.ac.uk/news-events/news/watch-the-presentations-from-our-centenary-event-at-the-crystal/ [accessed 25 May 2019]

[Back to top](#)

UCEM student wins UK real estate award

A UCEM student was 'overwhelmed and honoured' after winning in her category at a recent UK real estate awards ceremony.

MSc Real Estate student, Sarah Hayford won the BPF (British Property Federation) Future Promoting the Industry Award at the BPF Futures Tomorrow's Leaders Awards ceremony on Thursday 2nd May.

Sarah was recognised for her work in founding The Land Collective – an online platform aiming to engage young people with the property market and built environment – in winning the award which goes to someone who has brought a new idea or initiative to help change the way the business or the industry is perceived.

After winning the award, Sarah said: "I feel so overwhelmed and honoured to have won such an award! To have The Land Collective recognised in such a positive way, and to hear many compliments at the awards ceremony in relation to my work is heart-warming.

"The Land Collective team and I are very excited to see how the platform grows and develops this year, with much more in-store for our readers and followers. It feels amazing to be going into the second half of the year on such a high!"

Sarah was one of three UCEM representatives at the awards ceremony at the Houses of Parliament with alumna, Sophie Walker and Associate Tutor, Yohance Harper nominated in categories too.

The BPF Future Tomorrow's Leaders Awards celebrate the UK real estate industry's rising stars. For a full list of winners and nominees, visit

BPF – British Property Federation (2019) 'BPF Futures Tomorrow's Leaders Awards 2019', BPF [online]. Available at: www.bpf.org.uk/bpf-futures-tomorrows-leaders-awards-2019 [accessed 25 May 2019]

To find out more about The Land Collective (2019) 'A policy bringing economists and urban planners together' [online], further information is available at: <http://thelandcollective.com/> [accessed 25 May 2019]

Further information is also available at:

UCEM (2019) 'UCEM student win UK real estate award' [UCEM Website > Home > News & Events > News > UCEM student wins UK real estate award] UCEM Website [online], 8 May. Available at: www.ucem.ac.uk/news-events/news/ucem-student-wins-uk-real-estate-award/ [accessed 25 April 2019]

[Back to top](#)

100 years of UCEM & UCEM's April centenary newsletter published



UCEM has published its [April edition](#) of the centenary newsletter is now live on our website!

What's in this month's issue:

- We announce that registrations have opened for two of our highly anticipated centenary events;
- We look at notable events in our history which have taken place in April;
- Our featured decade is 1940-49 and we briefly look at what was a difficult period in our history;
- We tell our story about how we supported a student from the Channel Islands (the only British territory occupied by Germany during the Second World War) after he was deported to an internment camp;
- We look ahead to May's centenary activity as we edge ever closer to our first external event at The Crystal on 16 May.

Happy reading!

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

For more information, visit

UCEM (2019) '100 years of UCEM' [UCEM Website > Home > 100 years of UCEM] UCEM Website [online]. Available at: www.ucem.ac.uk/100-years-of-ucem/ [accessed 25 May 2019], and

UCEM (2019) – 'UCEM's April centenary newsletter published' [UCEM Website > Home > News & Events > News > UCEM's April centenary newsletter published] UCEM Website [online] 1 May. Available at: www.ucem.ac.uk/news-events/news/ucems-april-centenary-newsletter-published/ [accessed 25 April 2019]

[Back to top](#)

His Royal Highness, The Prince Wales visits UCEM to mark its centenary year

University College of Estate Management (UCEM) is delivering to report that its Patron, His Royal Highness, The Prince of Wales, has visited the institution to mark the occasion of its centenary year.

The visit was the first for The Prince at UCEM's headquarters since it achieved independence as a Higher Education Institution through receipt of Taught Degree Awarding Powers (TDAP) in 2013 and the University College title in 2015. Founded in 1919, UCEM (formerly The College of Estate Management) was established to

support the training and development of professionals in land or property-based jobs and it is estimated to have trained more than 150,000 people since it was established.

UCEM has actively collaborated with The Prince's Charities over recent years and continues to support The Prince's goals to create communities through engendering a more sustainable Built Environment.

During his tour of the site, The Prince heard how UCEM has adapted teaching to meet the needs of students over the last century including development in the last five years of its supported online education model. The Prince received a demonstration of UCEM's Virtual Learning Environment (VLE), following by a visit to its filming studios to watch student content being created.

Following this, The Prince joined apprentices in a training workshop and then was shown a display of the institution's historical artefacts. The artefacts include a book by Irene Barclay – the UK's first female chartered surveyor who studied with the institution in the early 1920s – and items relating to how UCEM supported soldiers and civilians alike during the Second World War. These artefacts will later this year be displayed at Reading Museum. As part of a year of centenary celebrations.

Finally, The Prince attended a reception of UCEM Trustees, staff, alumni and students and addressed the guests before unveiling a plaque to commemorate his visit.

During his address, he said: "I am thrilled to have this opportunity to join you to celebrate your centenary.

"A visit like this gives me an opportunity to express enormous gratitude and appreciation, indeed admiration, for all the staff who I know commit so much of their lives in a devoted way to ensuring their students can benefit from their experience."

UCEM Principal, Ashley Wheaton commented: "I am thrilled that His Royal Highness visited us for the first time in our new headquarters and he has been able to lend his support to our centenary celebrations. It has been wonderful to update him on our significant progress over the past five years, including achieving two other significant milestones: becoming a University College and gaining the ability to award our own degrees through TDAP.

"Our centenary is a huge milestone in our history and we highly value the support of our Patron. His visit is something that I am sure everyone involved with the day will never forget."

Further information is available at:

UCEM (2019) 'His Royal Highness, The Prince of Wales visits UCEM to mark its centenary year' [UCEM Website > Home > News & Events > News > His Royal Highness, The Prince of Wales visits UCEM to mark its centenary year] UCEM Website [online] 13th March. Available at: www.ucem.ac.uk/news-events/news/the-prince-of-wales-to-visit-ucem/ [accessed 25 April 2019]

[Back to top](#)

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 25 April 2019]

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

[Back to top](#)

Other UCEM News stories incl.

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



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

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

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

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

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

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

See also: CIOB – Chartered Institute of Building website [online]. Available at www.ciob.org/masterminds-construction [accessed 25 March 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 Social Media sites also incl.



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



www.facebook.com/StudyUCEM [accessed 25 May 2019],



www.linkedin.com/company/university-college-of-estate-management [accessed 25 May 2019],



www.youtube.com/user/cembuildingfutures/videos [accessed 25 May 2019].

[Back to top](#)



Other news

Things you need to know this week: Ebbsfleet Development Corporation buys first sites

'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, Land deals are intended to improve infrastructure links and help diversify the housing offer at Ebbsfleet's growing garden city.

This and other stories incl.

- **Ebbsfleet Development Corporation has acquired its first land in the Kent garden city, buying two sites to improve infrastructure links and bring forward new forms of housing.** The corporation has invested some £1.6 million in two brownfield sites, which have a combined area of around a hectare. It has bought Station House, in Northfleet, to enable a new pedestrian walkway to be provided, linking Ebbsfleet International and Northfleet station. The second site, in Milton Place, close to Gravesend town centre, is earmarked for housing to diversify the offer and could potentially include homes for older people.
- **Bristol City Council has appointed developers LiveWest and Keepmoat Homes to deliver a 350-home scheme to the south of the city.** The council has already secured outline planning permission for the homes, 30 per cent of which would be affordable, at Hartcliffe Campus. The two developers are now working up detailed design proposals.
- **The Town and Country Planning Association (TCPA) is calling for new legislation to raise the quality of new homes in England.** It is making the case for a healthy homes act, and has set 10 quality, safety and placemaking principles, which it says form a decent home. The move follows research TCPA carried out with University College London, which drew attention to the poor-quality homes being created under permitted development (PD) rights. The 10 principles set by TCPA include requirements for a home to be safe from the risk of fire and have adequate living space.
- **The London mayor has called on developers and businesses across the capital to offer their empty buildings to City Hall to house additional shelters and services for rough sleepers.** The mayor has worked with the London fire commissioner and Islington Council to bring Clerkenwell fire station, in north London, back into use for homelessness services temporarily, while the long-term development plans for the site are evolved. The first occupant to move into the building is providing the UK's first LGBTIQ+ homeless shelter.
- **A student housing co-operative has secured £65,000 in grant funding to help it develop affordable housing for university students in Brighton and Hove, in Sussex.** The South East Students Living Together (SEASALT) Housing Co-operative and Brighton & Hove Community Land Trust (BHCLT) are aiming to develop accommodation for up to 18 students and young people. The student-led group has been awarded more than £40,000 through Homes England's community housing fund and 315,000 through the Reach Fund, which is provided by Access – The Foundation for Social Investment.
- **Wigan Pier could be transformed into town houses, an artisan food hall and an events venue, if plans for its regeneration win approval.** Manchester developer Step Places is working with The Old Courts, Wigan Council and the Canal and River Trust to transform the site, with its disused eighteenth-century industrial buildings, into a cultural attraction.

Source: Smit J (2019) 'Ebbsfleet Development Corporation buys first sites', **Placemaking Resource** (incorporating *Regeneration + Renewal*) [online] 8 May. Further information available at: www.placemakingresource.com/article/1584010/need-know-ebbsfleet-development-corporation-buys-first-sites [accessed 25 May 2019]

[Back to top](#)

Case study: Creating new housing with local character

- How can qualities such as character and beauty be defined when it comes to new homes in suburban and rural areas? New guidance and development provide response, finds the author of this article.

Many people accept the need for more homes, but resistance or outright NIMBYism to housebuilding in their midst continues to run high within communities. As housing minister Kit Malthouse pointed out in a speech last month, "I repeatedly hear people saying that new development will spoil their area".

Malthouse has repeatedly challenged the housebuilding industry to deliver quality alongside the quantity, to help smooth the path of delivery. The government-initiated building better, building beautiful commission will explore what that quality – or beauty – could look like and how it can be delivered.

Four housing architects have come up with their own contribution to the debate, in **new guidance** setting out how to achieve quality for new housing development for suburban and rural settings. This guidance focuses on how to move away from the anywhere designs of many standard house types and instead to root design fully in local context and character. “All too often lip service is paid to local characteristics,” said Stephen Proctor, founding director of Proctor & Matthews, one of the four architects behind the report. Anchoring a development in its context may, he added, involve, “an exploration of local and regional characteristics, such as distinct topography, vernacular building forms and the texture and grain of surrounding settlements.”

Proctor & Matthews worked with HTA Design, Pollard Thomas Edwards and PRP on the guidance, which was launched last month (see publication date). “Successful housebuilding and placemaking involves much more than a simple stylistic preference,” Simon Bayliss, managing director of HTA Design, said at the launch. Tricia Patel, partner at Pollard Thomas Edwards, added, “We’d like to change the conversation around new development so that it becomes about quality and distinctiveness and what homes could be.”

The architects hope that their guidance, called ***Distinctively local***, will be a practical tool for local authorities. “We all know how local authorities are struggling for resource,” said Ben Williamson, associate director of PRP. “This may help them to push quality higher up the agenda.”

Scheme solutions

Ninewells

Cambridge is an area earmarked for significant expansion, with schemes including Ninewells, on its southern fringe. This scheme, designed by architect PRP, provides 270 homes as well as 100 student bedrooms to create a diverse community.

The site has open field to one side and Addenbrooke’s Hospital to the other, and the design reflects its transitional context, while making the most of the views and proximity of the natural environment. PRP’s solution incorporates building forms reflecting agricultural buildings along its rural edge, including timber clad, barn-style homes. These contrast with the more contemporary and urban homes along the opposing boundary.

The rural-to-suburb transition is also evident in the approach taken to car parking and services. “There is a rear mews court with parking so that the homes can look out over the landscaping,” pointed out PRP’s Williamson. The scheme was delivered by a joint venture of Hill Partnerships and Bedfordshire Pilgrims Housing Association.

Officers Field

Officers Field is a 77-home element of Osprey Quay, the mixed-use masterplan for the redevelopment of a former naval base on Portland, in Dorset. As a naval base the site had been necessarily isolated from its community, but redevelopment meant integrating it into its surroundings, while also dealing with the challenge of its steep coastal topography.

Architect HTA’s response combines the famous local Portland stone with simple gabled forms that reflect the vernacular. The familiar cream colours of the stone are echoed in the rendered exteriors of the two, three and four bedroom terraced, semi-detached and detached homes.

The change of level across the site was the equivalent to four storeys. The scheme design unifies a site that had been fractured by its landscape, introducing a central Portland stone stairway to open up access and forming a gateway to playing fields. The steps also echo the traditional features of the surrounding coastal town. The site’s coastal topography, therefore, becomes central to the scheme’s character, with some homes having split levels and sea views maximised.

Client ZeroC is now delivering a second phase of the scheme, working again with HTA.

Related Link:

Distinctively Local (2019) – **How to boost supply by creating beautiful and popular homes and places** [online]. Available at: www.distinctively-local.co.uk/ [accessed 25 May 2019]

Distinctively Local (2019) ***Distinctively local*** publication [online]. Available at: www.distinctively-local.co.uk/page/publication [accessed 25 May 2019] that has Chapters on the following:

More, Better, Faster; Themes incl. Distillation of place, Living streets, Iconography of home, Harmonious diversity, a summary, and a range of case studies.

Source: Smit J, (2019) ‘Case Study: Creating new housing with local character’, **Placemaking Resource** (incorporating *Regeneration + Renewal*) [online], 8 May. Further information available at:

[Back to top](#)

Analysis: Councils step up interest in housebuilding

- Local authorities have an increasing appetite to build homes to tackle housing challenges, but funding remains a concern, finds the author of this article.

When Bromsgrove Conservative Group in the west Midlands launched its manifesto for this May's (see publication date) district council elections, one of its pledges addressed the housing crisis. "We will create a housing company to allow us much greater flexibility in terms of developing a housing portfolio," council leader Geoff Denaro told local media outlet, the Bromsgrove Standard, last month. Not only is the Conservative group aiming to launch a housing company, but it is pledging that the homes it delivers will be low cost.

An increasing number of local leaders are looking at more direct delivery by councils to help tackle the housing crisis happening on their doorstep. Almost 80 per cent of local authorities now have their own housing companies, according to the interim findings of research by Janice Morphet and Ben Clifford, of the Bartlett School of Planning, at University College London, which is being carried out for the Royal Town Planning Institute.

Their **interim report**, published earlier this month, follows on from research that they carried out in 2017 looking at local authority provision of housing. The latest research indicates that numbers of council housing companies have grown by more than 20 per cent in two years. Research also suggests that development programmes and sites being taken on by local authorities are increasing in size.

The table below gives a snapshot of some of the new and emerging council housing companies, their aims and the early progress that they are making in development.

<i>Six of the new and emerging council housing companies</i>			
Council	Housing company	Aims	Progress to date
Bristol City Council	Goram Homes	To develop affordable homes. First schemes will be joint ventures with a developer	First sites are: Romney House in Lockleaze, which has planning consent for 268 homes, Baltic Wharf, and the Caravan Club site
Haringey Council		Housing company plan has been brought forward after the council chose not to go ahead with the Haringey Development Vehicle	Initially looking at three small sites: the former Cranwood Care Home in Muswell Hill, Brunel Walk near Seven Sisters station, and land behind Wood Green Civic Centre
Leicester City Council	Housing Leicester	First phase of homes will provide 29 homes, and second phase is aiming to deliver 320 homes	Won planning consent in March to develop first seven homes on three sites. Three more sites are in the pipeline to deliver 22 homes
Liverpool City Council	Foundations	Aims to build and refurbish 10,000 homes by 2028, have an ethical approach and to "revolutionise the rent to buy sector"	It is developing a scheme of 105 family homes in the Yew Tree area. Is also refurbishing 25 traditional terraced homes in Picton, and has a smaller 14 home scheme in construction
Middlesbrough Council	M Homes	Aims to build 100 homes over two years on council owned land	Two sites named, delivering 37 homes in Gresham and 35 bungalows in Beechwood. A third site in Hemlington is in the pipeline
Winchester City Council		Council aims to invest £10 million in the initiative	Plans to develop 60 homes on two sites on city estates

Source: Smit J (2019), 'Analysis: Councils step up interest in housebuilding', Placemaking Resource, Incorporating *Regeneration and Renewal* [online], 24 April. Available at: www.placemakingresource.com/article/1582895/analysis-councils-step-interest-housebuilding [accessed 25 May 2019]

Since Morphet and Clifford's initial research was carried out government has made a number of policy changes but initiatives for housing and planning now appear to be pulling in different directions, says the interim report. Ministers support the building of more social homes in principle, but changes to the National Planning Policy Framework to support this appear lacking, it notes.

Similar challenges apply in finance, as local authorities struggle to fund many of their essential services. Last year the government announced the removal of the Housing Revenue Account (HRA) borrowing cap, seemingly

giving councils greater freedom to develop social housing directly. But 205 local authorities no longer own any housing stock, so do not have an HRA and cannot use the new borrowing powers.

There is also continuing focus on receipts from right-to-buy sales of council homes, which remain subject to central government restrictions. With the government scheduled to set out its public sector investment plans in 2019 for the next three years in its spending review, councils network the Local Government Association (LGA) has been making its case for change.

LGA is arguing for councils to be able to keep 100% of right-to-buy receipts and to set sales discounts locally to ensure that they can replace homes sold. This is key to reversing the current decline in social housing delivery, says LGA housing spokesperson, councillor Judith Blake. "The last time the country built more than 250,000 homes, in a year, in the 1970s, councils built around 40 per cent of them."

Related Link:

RTPR – Royal Town Planning Institute (2019) 'Local Authority Direct Provision of Housing' [RTPI > Home > Knowledge > Better Planning > Better Planning: Housing affordability > Local Authority Direct Provision of Housing > phase 2 interim report] RTPI [online], 2 April. Available at: www.rtpi.org.uk/knowledge/better-planning/better-planning-housing-affordability/local-authority-direct-provision-of-housing/ [accessed 25 May 2019]

Further information is available at:

Smit J (2019), 'Analysis: Councils step up interest in housebuilding', Placemaking Resource, Incorporating *Regeneration and Renewal* [online], 24 April. Available at: www.placemakingresource.com/article/1582895/analysis-councils-step-interest-housebuilding [accessed 25 May 2019]

[Back to top](#)

***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 25 May 2019]

[Back to top](#)

Latest Data Protection News & Research:

Data Protection and Brexit – is your organisation prepared?

The Government is making preparations and wants to make sure that you are ready too, particularly when it comes to your data. Businesses of all sizes should check that you won't lose access to vital data if the UK leaves the EU without a deal.

Digital Minister Margot James's **blog posts** points to some simple [steps](#) to do this from the ICO and detailed guidance. For example, adding standard contractual clauses to your contracts could be enough to avoid potential problems, and there's an **interactive tool** to help you do it.

Related Links:

Department for Digital, Culture, Media and Sport (2019) 'DCMS blog' [online]. Available at: <https://dcmsblog.uk/> [accessed 25 May 2019] and

https://dcmsblog.uk/2019/01/data_protection_and_brexit_is_your_organisation_prepared/ [accessed 25 May 2019]

ICO - Information Commissioner's Officer (2019) 'Do I need to use standard contractual clauses (SCCs) for transfers from the EEA to the UK (if we leave the EU with no deal)?

Source: Heritage Update e-Bulletin [online], Issue **No 386**, 31 January 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 May 2019]

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

www.theheritagealliance.org.uk/update/ [accessed 25 May 2019].

LATEST Data Protection related news

Google hit with £44m GDPR fine over ads

Fox C (2019) 'Google hit with £44m GDPR fine over ads' BBC News, Technology [online], 21 January 2019. Available at: www.bbc.co.uk/news/technology-46944696 [accessed 25 May 2019]

[Back to top](#)

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:

March 2019 - The European Data Protection Board (EDPB) has adopted:

- Guidelines on certification and identifying certification criteria in accordance with Articles 42 and 43 of the Regulation 2016/679
- Guidelines on the accreditation of certification bodies under Article 43 of the GDPR (2016/679)

The EDPB has also published the following Guidelines for consultation:

- Guidelines on Codes of Conduct and Monitoring Bodies under Regulation 2016/679 – Closing 2 April 2019.

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

November 2018 - ICO published detailed guidance on encryption.

Further information is available at:

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

[Back to top](#)

Related resource links and further information on Data Protection:

Data laws made fit for the digital age

- Tough new data protection laws, The General Data Protection Regulation (GDPR) became law on 25 May 2018. Source: GOV.UK, Department for Digital, Culture, Media and Sport, and Margot James MP (2018), News Story: 'Data laws made fit for the digital age' [online]. Available at: www.gov.uk/government/news/data-laws-made-fit-for-the-digital-age?utm_source=792e6351-26af-4550-abe1-85b07a4a97a5&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate [accessed 25 May 2019].

Democracy disrupted? Personal information and political influence

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

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

What is GDPR?

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

Source: Fox C (2019) 'Google hit with £44m GDPR fine over ads' BBC News, Technology [online], 21 January 2019. Available at: www.bbc.co.uk/news/technology-46944696 [accessed 25 May 2019]

In relation to UCEM

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

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

[Back to top](#)

Construction firms hit by massive summer surge in cyber-attacks

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

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

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

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

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

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

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

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

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

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

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

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

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

[Back to top](#)

Grenfell Tower - Latest developments / outcomes from

Grenfell Tower inquiry report delayed until October 2019

- A report from the Grenfell Tower public inquiry into what happened on the night of the fire that killed 72 people on 14 June 2017 will not be published until October 2019, months later than planned, while phase 2 hearings into the refurbishment of the building won't start until 2020.

That's according to an update from the inquiry, which has written to core participants to inform them of the new schedule.

The inquiry said writing the phase 1 report, originally expected in spring this year (see publication date), had been "far more complex and time-consuming" than originally anticipated.

The report will set out what happened on the night of 14 June 2017, including an almost minute-by-minute description of how the fire started, how it spread, and what happened on each floor of the tower. It also

involves a detailed description and analysis of what was happening in the emergency services' incident control room and on the ground.

IN a statement, the inquiry said: "There is a significant volume of evidence to be reviewed and detailed work to be done to ensure findings are properly tied to all relevant parts of the evidence. The chairman [Sir Martin Moore-Bick] is seeking to complete the report as soon as possible but needs to ensure he does not compromise its thoroughness and accuracy. The inquiry must also accommodate sufficient time for the rule 13 process, under which the chairman is required to send warning letters to individuals or organisations that may be subject to criticism in order to give them an opportunity to respond before the report is finalized.

"The inquiry expects the rule 13 to begin in July and that the chairman will be in a position to write to the prime minister with his final report after the parliamentary recess, for publication most likely in October."

Meanwhile, preparation for the second phase of the inquiry, which examines the refurbishment of Grenfell Tower and how it came to be in a condition that allowed a fire of this scale to occur, is continuing.

Phase 2 hearings are expected to be in January 2020. So far, the inquiry has disclosed 36,100 documents relating to phase 2, with more tranches to be disclosed throughout this year. The next tranches of disclosure will include Building Control documents, mechanical and engineering documents relating to the lift and smoke control system, and documents relating to fire risk assessment.

Further information is available via:

Source: Gerrard N (2019) 'Grenfell Tower inquiry report delayed until October', *Construction Manager* [online], 20 May. Available at: www.constructionmanagemagazine.com/news/grenfell-tower-inquiry-report-delayed-until-octobe/ [accessed 25 May 2019]

Related Links:

Gerrard N (2018) 'Grenfell one year on: how has construction changed?', *Construction Manager* [online], 29 May. Available at: www.constructionmanagemagazine.com//insight/grenfell-one-year-how-has-construction-changed/ [accessed 20 May 2019]

Hackitt Review

Gerrard N (2018) 'Government adopts all Hackitt's recommendations' *Construction Manager* [online] 18 December. Available at: www.constructionmanagemagazine.com/news/government-adopts-all-hackitts-recommendations/ [accessed 25 May 2019]

Gerrard N (2019) 'Hackitt: Government delay has led to 'loss of momentum' *Construction Manager* [online] 31 January. Available at: www.constructionmanagemagazine.com/news/hackitt-government-delay-has-led-loss-momentum/ [accessed 25 May 2019]

Designing Buildings Wiki (2018) 'Changes to Approved Document B following Hackitt review' [online], last edited 21 December 2018. Further information is available at: www.designingbuildings.co.uk/wiki/Building_a_safer_future:_an_implementation_plan [accessed 25 May 2019]

Building a safer future: an implementation plan

GOV.UK (2018) Policy paper: 'Building a safer future: an implementation plan' [GOV.UK > Home > Housing, local and community > Planning and building > Building regulation] GOV.UK [online]. Available at: www.gov.uk/government/publications/building-a-safer-future-an-implementation-plan [accessed 25 May 2019]

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

Designing Buildings Wiki (2018) 'Building a safer future: an implementation plan' [online], last edited 21 December 2018. Further information is available at: www.designingbuildings.co.uk/wiki/Changes_to_Aproved_Document_B_following_the_Hackitt_review [accessed 25 May 2019]

[Back to top](#)

&

Addressing building failures: [Grenfell Tower and Edinburgh schools](#)

Introduction

It seems that the biggest concerns facing the built environment sector today are investigating what has gone wrong with our systems leading to building failures which have resulted in a tragic loss of lives. Chartered Institute of Architectural Technologists (CIAT) members have been at the forefront in attempting to resolve these issues and improving procedures and standards from education to practical implementation. Notably, CIAT is actively participating through Construction Industry Council Working Groups and directly with government to review the results of the [Hackitt Report on Building Regulations and Fire Safety as a result of the Grenfell Tragedy](#). These are prominent in the outcomes of the [Cole Report: Edinburgh schools, instigated by the failure in Edinburgh Schools buildings](#). The similarities that in issues that need addressing are quite evident. Further information is available at:
Source: CIAT, Designing Buildings Wiki (2019) 'Building a safer future: an implementation plan' [online], last edited 3 April 2019. Further information is available at: www.designingbuildings.co.uk/wiki/Addressing_building_failures:_Grenfell_Tower_and_Edinburgh_schools [accessed 25 May 2019]

The full article '[Addressing Building Failures: Grenfell and Edinburgh Schools](#)' was written by Francesca Berriman MBA, HonDTEch, CEO of CIAT. It first appeared in the Autumn 2018 issue of *Architectural Technologist* (AT) and is available at: <http://library.myebook.com/UBM/architectural-technology-journal-127-autumn-2018/1468/#page/43> [accessed 25 May 2019]

NOTE: Use of Wikipedia as a reference site:

Wikipedia and use of other Wikis 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.

[Back to top](#)

Collection: Grenfell Tower

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

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

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

Government information incl.

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

Information about the support available for people affected by the Grenfell Tower fire can be found (as mentioned above) – *Source:* GOV.UK (2017), Department for Communities and Local Government and Home Office, Park of: Grenfell Tower, published: 15 June 2017, last updated: 1 August 2017, Guidance: *Grenfell Tower*

fire: support for people affected [online]. Available at: www.gov.uk/guidance/grenfell-tower-fire-june-2017-support-for-people-affected [accessed 25 May 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 25 May 2019]

Further Related Links:

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

[Back to top](#)

Other News and Views:

The rise of construction robotics

- How quickly – and widely – will robotics and automation become part of construction processes? In this article, the author looks at the robots already in use in the industry – and the R&D projects that could soon bring new autonomous technology to a site near you.

Self-driving vehicles, computer-controlled manufacturing robots, large-scale 3D printers, drones - just a few of the machines promising to take over traditional construction activities like materials handling, packing, cutting, bricklaying and rebar tying and quality control.

Robotics and machine-based automation align closely with the drive to digitize the industry – and deliver projects faster and more cheaply.

The high precision enabled by robotics helps eliminate waste – 3D printers create components only using the material required with no offcuts – while continually reducing price and size of technology, coupled with developments in artificial intelligence (AI) and machine learning, mean potentially huge efficiency gains.

Learning to embrace innovation

“Robo-tech” has hit the headlines over the past few years. The bricklaying robot **Hadrian X** showed in November 2018 that it could build the shell of a house in just three days. Its creator, Australian firm Fastbrick Robotics (FBR) recently formed a 50/50 joint venture with building materials supplier Brickworks to start building homes down under.

TyBot is the creation of US-based advanced Construction Robotics, which automates tying of steel reinforcement bars. The system uses a robotic arm rigged to a gantry crane to locate rebar junctions then tie them together before a concrete pour. Its inventor says TyBot can match the speed of a team of about six to eight site workers with only one worker required to supervise.

Kier is one of three international contractors that have **trailed a robot** designed to trundle around sites at night to automatically capture daily progress. The four-wheeled machine, development by Scaled Robotics, maneuvers around obstacles and records detailed 3D survey scans and panoramic photos. Online software compares the as-built information against BIM to identify any discrepancies, helping contractors keep tabs on quality and progress.

Significant hype around 3D printing is starting to transition into live examples. The first 3D-printed house in the EU was fabricated by a modified manufacturing robot in Milan’s central square as part of the city’s design festival

in 2018. The one-storey prototype home, developed by CLS Architects, engineering consultancy Arup and printing specialist CyBe Construction, is designed to be dismantled and reused. The walls were printed directly onto the pavement in 33 separate modules by a 5-axis robot fitted with a customer extruder. Giving robots the ability to move around to print structures opens up the potential to build at virtually any scale. Researchers from Nanyang Technological University in Singapore recently demonstrated two arm-type robots on wheels that printed a concrete structure in tandem. The entire sequence was automated and controlled using bespoke software.

This and further information are available at:

Cousins S (2019) 'The rise of construction robotics', *Construction Manager* [online], 28 May. Available at: www.constructionmanagermagazine.com/insight/rise-construction-robotics/ [accessed 29 May 2019]

[Back to top](#)

Boost for housing market as Japan's biggest housebuilder, Sekisui House, moves into UK

- Japan's biggest housebuilder will move into the UK housing market with immediate effect after striking a multi-million-pound deal that will see it work with Home England and Urban Splash to deliver thousands of new homes across England.

- £90m investment boost to the UK housing market
- Sekisui take a 35% equity stake in Urban Splash's modular House business
- Investment will deliver new housing stock using modern methods of construction

Sekisui House, one of the world's leading housebuilders, are pioneers of modern methods of construction (MMC), where homes are built in factories and then shipped out to sites.

The 390m deal, which has been facilitated by lead real estate and financial advisor JLL, comprises a total new investment of £55m into regeneration company Urban Splash's 'House' development business. It provides a significant boost to the UK's modular housing industry and will help to speed up production of much-needed new homes.

Sekisui House have invested £22m of new equity, with £30m of equity and debt funding coming from the Government's Home Building Fund, administered through Homes England.

Experienced entrepreneur Noel McKee, founder of We Buy Any Car, has also made a sizeable investment in the new partnership and will take an incremental c 5% stake.

For further information please visit:

Source: Homes England (2019), Press release: 'Boost for housing market as Japan's biggest housebuilder, Sekisui House, moves into UK', [GOV.UK Home > Housing, local and community > Housing] GOV.UK [online], 14 May. Available at: www.gov.uk/government/news/boost-for-housing-market-as-japans-biggest-housebuilder-sekisui-house-moves-into-uk [accessed 25 May 2019].

[Back to top](#)

Skills agenda

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 25 May 2019]

[Back to top](#)

[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 25 April 2019]



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Related Links:

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

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

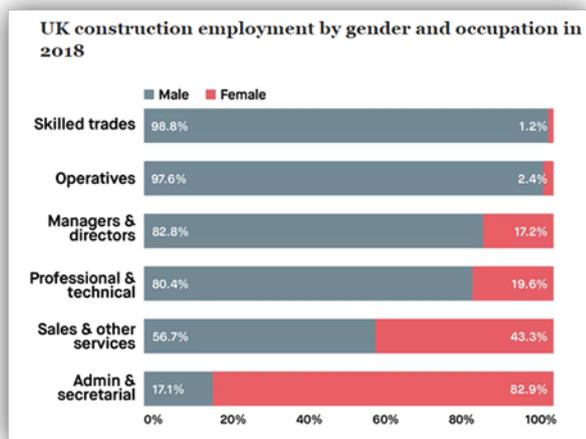
[Back to top](#)

[Construction's gender imbalance revealed](#)

Figures from the Office of National Statistics, highlighted by Construction Products Association (CPA) economics director Noble Francis, show that of the 2.4 million people employed in UK construction in the fourth quarter of 2018, 2.1 million were men and just 0.3 million were women. For

UK construction employment by gender and occupation in 2018, P.T.O.

UK construction employment by gender and occupation in 2018



Source: Construction Manager (2019), 'Construction's gender imbalance revealed', *Construction Manager* [online], 26 March. Available at: <http://www.constructionmanagermagazine.com/news/constructions-gender-imbalance-revealed/> [accessed 25 May 2019].

Related Link:

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 25 May 2019].

[Back to top](#)

Construction needs 168,500 more workers by 2023

- The construction industry will create an additional 168,500 jobs by 2023, 10,000 more than was predicted a year ago (see publication date).

That's according to the Construction Industry Training Board (CITB), which said it expected construction to continue to expand despite the uncertainty of Brexit. CITB anticipates that construction employment will reach 2.79 million in 2023, 2% lower than its peak in 2008.

CITB's annual Construction Skills Network (CSN) report, a five-year forecast into the industry's skills needs, also predicted growth across Great Britain of 1.3% over the period, down a third of a percent on what it forecast last year. The forecast is based on the scenario that the UK agrees an exist deal with the EU.

The biggest increase is expected in public housing, which is pulling ahead as infrastructure slows. Financial support from government at both local and national levels is encouraging a 3.2% growth rate in public housing, up 0.5% since last year's forecast. Infrastructure is set to grow by 1.9%, down from 3.1% predicted in last year's forecast (see publication date), as a result of Brexit uncertainty and by investors stalling construction of the Welsh nuclear power plant Wylfa in January 2019, CITB said.

Meanwhile, commercial construction is "significantly declining" due to investors taking a cautious stance in the face of Brexit. The forecast expects the sector to drop sharply in 2019 then level out by 2023, with zero growth anticipated overall. However, CITB said the housing repair and maintenance sector appears to be benefitting from a quieter property market as home owners halt plans to sell up and instead focus on improving their current properties. By 2023, the sector is expected to have grown by 1.7%.

Steve Radley, policy director at CITB, said: "This forecast aptly reflects the uncertainty, particularly associated with Brexit, that we're seeing across the wider economy. Currently, concerns around Brexit are weighing on clients and investors, creating a knock-on effect on contractors and their ability to plan ahead.

"However, assuming that a deal is agreed, we expect low but positive growth for construction. Even as infrastructure slows, sectors like public housing and R&M are strengthening. This will see the number of construction jobs increase over the next five years, creating growing opportunities for careers in construction and increasing the importance of tackling the skills pressures we face."

Source: Construction Manager (2019), 'Construction needs 168,500 more workers by 2023', *Construction Manager* [online], 25 February. Available at: www.constructionmanagemagazine.com/news/construction-needs-168500-more-workers-2023/ [accessed 25 May 2019].

[Back to top](#)

Brexit / Brextension

Leaving the EU: advice for businesses

- Use this information to help you prepare your business for leaving the European Union (EU)

When the UK leaves the EU there may be changes that affect your business. This leaflet contains some of the actions you can take now to help you prepare. It also includes guidance on the wide range of support available to help your business grow as the UK leaves the EU.

This information is available to download for print or for viewing on screen.

Further information is available at:

GOV.UK, Department for Business, Energy, Energy & Industrial Strategy (2019) 'Promotional material: Leaving the EU: advice for businesses' [GOV.UK > Home > Government > Brexit] GOV.UK [online]. Available at: www.gov.uk/government/publications/leaving-the-eu-advice-for-smes?utm_source=facebook&utm_medium=social&utm_campaign=SME+leaflet [accessed 25 May 2019]

Related Links:

Source: *Construction Manager* (2019) 'Construction no-deal Brexit plan launched', *Construction Manager* [online], 22 February. Available at: www.constructionmanagemagazine.com/news/construction-no-deal-brexit-plan-launched/ [accessed 25 May 2019]

Gerrard N (2019) 'Ardmore sounds Brexit warning amid £113m turnover drop', *Construction Manager* [online], 11 February. Available at: www.constructionmanagemagazine.com/news/ardmore-sounds-brexit-warning-amid-113m-turnover-d/ [accessed 25 May 2019]

Gerrard N (2019) 'Construction output forecast slashed amid Brexit uncertainty', *Construction Manager* [online], 20 January. Available at: www.constructionmanagemagazine.com/news/output-forecast-downgraded-amid-brexit-uncertainty/ [accessed 25 May 2019]

[Back to top](#)

Falling sales leave house price hopes at a 20-year low 'thanks to Brexit uncertainty', says RICS estate agents

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

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

RICS recorded a difference of 28 percentage points between the number of surveyors who believe sales volumes will continue to fall and those who expect them to go up – the biggest gap since records began in 1998. It means property professionals in every region except the North West do not expect the market to recover in the near future.

In December, a majority of surveyors reported declining house prices for the fourth month in a row. However, RICS added that it appeared to be Brexit uncertainty that was denting confidence, as expectations were better beyond spring (see publication date).

The report said: 'The twelve-month outlook is a little more upbeat, suggesting that some of the near-term pessimism is linked to the lack of clarity around what form of departure the UK might make from the EU in March 2019.'

The RICS report polls its member estate agents around the UK and is seen as a key barometer for the housing market.

The picture painted by December's 2018 report was far gloomier than simply a slow festive month. RICS reported that new buyer inquiries fell for the fifth month in a row, while there was also less properties coming onto the market, continuing a trend that has last six months.

If prices do fall across all regions expect for the North West, as forecast, then it will reverse the upward trend seen in some parts of the UK property market recently. While RICS members reported falling prices in markets in London, the South East and West, East Anglia and the North over the past three months, those in the North West, Midlands, Scotland and Northern Ireland said prices were on the rise.

Further information is available at:

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

Related Link:

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

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

[Back to top](#)

Brexit: Jargon-busting guide to the key terms

- Confused by all the Brexit jargon in the news? Provided via the source web-link below is a glossary to demystify commonly used EU-related terms.

12 Key terms are also explained in more detail and include:

(1) No deal, (2) WTO rules, (3) Transition period, (4) Article 50, (5) Another referendum, (6) Single market, (7) Customs union, (8) Free-trade agreement, (9) Withdrawal agreement, (10) Backstop, (11) Free movement, and (12) Divorce bill

Related Links:

Brexit: All you need to know about the UK leaving the EU [online]. Further information is available at: www.bbc.co.uk/news/uk-politics-32810887 [accessed 25 May 2019]

Brexit timeline: UK's departure from the EU [online]. Further information is available at:

www.bbc.co.uk/news/uk-politics-43546199 [accessed 25 May 2019]

Further information on this and 'Brexit' in general are available at:

BBC News (2019) 'Brexit: Jargon-busting guide to the key terms', BBC News UK [online]. Available at:

www.bbc.co.uk/news/uk-43470987 [accessed 25 May 2019]

[Back to top](#)

Latest research from CBRE - Future of Retail 2030

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

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

- (1) Enhanced interaction will drive engagement through virtual and augmented reality, holograms and haptic, (2) City centers will be vehicle-free, (3) Open-air retail centers will grow in popularity,
- (4) 3-D printing will serve as invisible inventory, (5) The circular economy will become part of the way people interact with businesses, (6) Specialized stores will re-emerge as a force in retail,
- (7) There will be a resurgence of local markets and experiences, (8) A dynamic shift will occur in how goods are produced, (9) Trust and transparency will become objective – and measurable,
- (10) Physical stores will be reimagined via digital technology, (11) Retailers will focus on understanding customer emotions, (12) Consumers will expect their loyalty to be rewarded,

- (13) Storefronts will become virtual stores after hours, (14) Health-focused offers and products will be much more prominent, (15) Personal enhancement services will require more space,
- (16) Delivery will be when and where you want it – without you even realizing it, (17) The High Street will look very different to today, (18) Customization will become the new loyalty,
- (19) The sharing economy will be commonplace, (20) Curating the offer will be a basic expectation, (21) Returns will be made simple, (22) Delivery tracking information will be precise,
- (23) Flexible lease structures will be far more common, (24) Consumers will be able to experience a purchase before making payment,
- (25) The focus of gas stations globally will shift as they become important mini-logistics hubs and as fueling needs, (26) Smartphones will no longer exist, but mobile commerce will increase,
- (27) Independent stores and food and beverage operators will be more prevalent, (28) The traditional in-store physical point of purchase will disappear,
- (29) Fitting rooms help as opposed to hinder the shopping experience, (30) Wellness establishments will flow in number, (31) Shopping centers will become simply “centers”,
- (32) Retail will be leisure, (33) The power of prediction has enabled decision making to be outsourced to machines, (34) Personal ownership of cars has dramatically reduced,
- (35) Customer experiences are specific not generic, (36) Buying what you want, where and how you want is the norm, (37) Stores have become showrooms and experiential brand centers,
- (38) Pure play is no longer an important part of retail, (39) Robotics and automation will replace many jobs in the retail sector, and (40) Competition for people’s disposable income has increased.

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

Related Links:

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

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

GOV.UK, Ministry of Housing, Communities & Local Government, and Jake Berry MP (2019) Press release: ‘More funding to help town centres and high streets thrive’ [GOV.UK Home > Business and industry > UK economy > High streets and town centres] GOV.UK [online]. Available at: www.gov.uk/government/news/more-funding-to-help-town-centres-and-high-streets-thrive?utm_source=2af7c82c-e0d4-4cfd-8ed9-149652eeb46a&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate [accessed 25 May 2019]

Heritage Update e-Bulletin (2019) ‘**Retail industry experts have called for a community-focused approach to tackling the challenges facing high streets**’ [online], Issue **No 385**, 17 January 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 May 2019]

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 25 May 2019]

[Back to top](#)

Research reveals rising council support for community-led housing

- A third of local authorities in England now support community-led housing, with over 200 sites sold for such development.

Councils have sold over 200 sites to community-led housing groups, with new research revealing a third of local authorities in England now support such development.

Released by the National Community Land Trust Network (NCLTN), the research references success stories such as:

- Bristol City Council and its Community Asset Transfer Policy, which promotes the growth of community-led housing and has issued loans and grants totalling £300,000
- Cornwall Council's Strategic Housing Framework that specifically mentions community-led housing and has issued six loans to community groups totalling £3,231,000 and six grants totalling £1,016,750.
- Brighton and Hove City Council investing its full Community Housing Fund allocation in a new Independent Enabler Hub that will help groups form and deliver across the city region

"Our research highlights the growing interest in community-led housing in local government. With budgets stretched, more councils are looking for new ways to solve local housing problems and help their neighbourhoods prosper," said NCLTN director Tom Chance.

"It's fantastic to see that one-third of councils of all political colours have now used either policy, grants, loans or land disposals to help community projects to succeed.

"While some see this as a distraction or competition with their own housing plans, more are seeing how community-led approaches can complement and strengthen other aspects of their housing strategy," he said. FoI responses to NCLTN show a third of councils in England now support community-led housing development, with one in six having policies to support such schemes and one in three having given grants or loans to them. At least 208 public sites have been sold or leased to community-led housing groups. Despite central government forecasting that 300,000 properties need to be built each year until the mid-2020s, housing starts are falling short. And while councils will benefit from the lifting of the Housing Revenue Account borrowing cap, they are still facing an £8bn funding gap during the same period. Funding available for community-led housing is at record levels and includes the government's £163m Community Housing Fund. This followed a first year of the Fund (2016/17), when £60m was granted to 148 local authorities based in areas where the number of second homes is high.

There are more than 196,000 community-led homes in the UK, the majority co-operative homes that were built in the 1970s and '80s. But in recent years the movement, which also includes community land trusts and co-housing, has seen a surge in interest. It is expected that 5,000 new community led homes will be built in the next five years.

Taner B (2019) 'Research reveals rising council support for community-led housing', *24housing* [online], 16 May. Available at: www.24housing.co.uk/news/research-reveals-rising-council-support-for-community-led-housing/ [accessed 25 May 2019]

[Back to top](#)

[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 **1 April 2019**, the topics covered include.

- **Residential property** – incl. International Evidence Review on Housing Taxation
- **Facilities & management** – incl. Big data: a new revolution in the UK facilities management sector
- **Environment** – incl. Cities, health and well-being
- **Rural** – incl. [RICS/RAU Rural Land Market Survey and Land Prices \(see further information below\)](#)
- **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 (2019) [online]. Available at: www.rics.org/uk/news-insight/research/ [accessed 25 May 2019]

[Back to top](#)

RICS Market surveys – UK Construction and Infrastructure Market Survey: Q1 2019

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

Source: RICS website > Home > News & Insight > Research > Market surveys > **UK Construction and Infrastructure Market Survey**

Incl.

RICS (2019) *UK Construction and Infrastructure Market: Q1 2019* [online]. Available at: www.rics.org/uk/news-insight/research/market-surveys/uk-construction-and-infrastructure-survey/ [accessed 25 May 2019]

Housing activity supports growth amidst uncertainty

- Market confidence indicator nears a six-year low but is still consistent with moderate growth
- Outlook for workloads and employment growth improves as capacity constraints linger
- Financial constraints deepen as credit conditions tighten.

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

RICS (2019) *UK Construction and Infrastructure Market Survey: Q1 2019* [RICS website > Home > News & Insight > Research > Market surveys > **UK Construction and Infrastructure Market Survey**] RICS [online]. Available at: Available at: www.rics.org/uk/news-insight/research/market-surveys/uk-construction-and-infrastructure-survey/ [accessed 25 May 2019]

[Back to top](#)

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 25 May 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 25 May 2019]
[Back to top](#)

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/ [accessed 25 May 2019].

[Back to top](#)

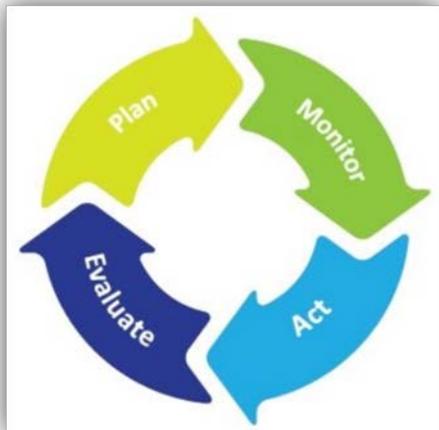
Tackling mental health and wellbeing within the construction industry



Builder&Engineer (2017)

Wellbeing considerations for property managers

Wellbeing strategy model:



Source: BSRIA (2019), 'Wellbeing considerations for property managers', [Designing Buildings.co.uk Wiki](https://www.designingbuildings.co.uk/wiki/Wellbeing_considerations_for_property_managers) [online], last edited 19 March 2019. Further information is available at: www.designingbuildings.co.uk/wiki/Wellbeing_considerations_for_property_managers [accessed 25 May 2019]

Introduction – Florence Nightingale told hospitals that they needed more windows, better ventilation, improved drainage and more space. This was great advice in the early days of better, healthier buildings, but today the challenges are far greater. Employers are pushing for healthier, more comfortable working environments for their staff, which has made those in the property management sector alive to the need for a wellbeing strategy for their buildings.

The healthy building movement – There are two main drivers of the healthy building movement. The first is the clear evidence that the working environment impacts employee productivity, providing employers with a financial case for being concerned about workplace wellbeing. The second is that the next generation of employees, Generation Z, are not willing to compromise on health or happiness and demand nothing less than a work environment where wellbeing matters. For employers to attract, and keep, the best talent, a health building is a must. Property managers who are proactive about wellbeing in their buildings are more likely to attract new tenants, as many organisations now consider lifestyle and wellbeing factors when selecting offices. Even property managers who have existing tenants and are not looking for new ones cannot ignore it. If they do, there is a risk that their tenants will question their management stance and force wellbeing to be considered and acted upon in a more reactive way. At worst they will look for new offices.

It is likely to become common practice in the near future for property managers to have a separate wellbeing policy for their buildings. Elements of wellbeing are already addressed in existing policies such as health and safety and sustainability, but these do not typically take a holistic view, nor do they go far enough. There are a number of voluntary wellbeing standards for properties that are emerging, similar to those we have seen for energy and sustainability. These allow property managers to go above and beyond the minimum requirements and demonstrate their commitment to the cause. Property managers should also consider that as smart technology continues to evolve, they could find themselves being held to account by their occupiers. This is because, in the future, wearable technologies like smart watches may be able to tell us about environmental wellbeing factors such as air quality, lighting, humidity and noise levels. Since we already have devices that track personal wellbeing parameters such as blood pressure, steps and sleep patterns, it seems natural that interest will soon turn to measuring quality of our environment. When that happens, property managers will need to make sure that their buildings conform to the wellbeing standards their occupiers expect.

It is clear that having a wellbeing strategy in place is essential for successful property management. The next question is how should managers approach developing one and what factors should they consider?

Areas covered incl.

- **Understanding the building and its stakeholders**
- **Defining wellbeing responsibilities**
- **Gathering extra data and putting it to good use**

- **New versus existing buildings**

and further reading and related articles.

Source: BSRIA (2019), 'Wellbeing considerations for property managers', **Designing Buildings.co.uk Wiki** [online], last edited 19 March 2019. Further information is available at:

www.designingbuildings.co.uk/wiki/Wellbeing_considerations_for_property_managers [accessed 25 May 2019]

NOTE: Use of Wikipedia as a reference site:

Wikipedia and use of other Wikis 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.

[Back to top](#)

Related links incl.:

The Co-op Community Wellbeing Index - Source: Heritage Update e-Bulletin [online], Issue **No 386**, 31 January 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 April 2019]. Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 25 May 2019].

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

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 25 May 2019]

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

Buckland D (2017) '**Building up wellbeing in construction**' [online], *Future of Construction*. Available at: <https://futureofconstruction.org/> [accessed 25 May 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 www.designingbuildings.co.uk/wiki/Building_up_wellbeing_in_construction [accessed 25 May 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.

[Back to top](#)

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 25 May 2019]

[Back to top](#)

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 25 May 2019]

[Back to top](#)

Framing toolkit: [Talking about poverty](#)

- Compassion and justice are values that underpin our society – we believe in helping each other out when we’re having a tough time. We need to make sure those values underpin the way we talk about poverty too.

At the Joseph Rowntree Foundation (JRF), they want to inspire action and change to solve UK poverty, but they know there’s a lot of work to do if more people are to understand it and call more loudly for solutions.

To help with this challenge, we’re changing the story we tell about poverty, using framing recommendations from the FrameWorks Institute’s research into public attitudes to poverty in the UK, involving 20,000 people.

This toolkit explains what framing is, why we’re using it, and how you can put it into action yourself.

Source: Brook P (2019) ‘Framing toolkit: Talking about poverty’ [online], 14 March 2019. Available at: www.jrf.org.uk/report/framing-toolkit-talking-about-poverty [accessed 25 May 2019]

Related topics: Society; Social and political attitudes; and Income and benefits.

JRF Housing Related Links:

Barnard H (2019) 'UK Poverty 2018' [online], 4 December 2018. Available at: www.jrf.org.uk/report/uk-poverty-2018 [accessed 25 May 2019].

Sooden 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 25 May 2019].

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 25 May 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 25 May 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 25 May 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 25 May 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 25 May 2019]

[Back to top](#)

[Households below a Minimum Income Standard: 2008/09-2016/17 – Latest research from Loughborough University and funded by Joseph Rowntree Foundation \(JRF\)](#)

The latest report in the Minimum Income Standard programme, funded by the Joseph Rowntree Foundation (JRF) looks at the changes in the adequacy of incomes, as measured by individuals' ability to reach the Minimum Income Standard (MIS), between 2009/09 and 2016/17. It is the seventh in an annual series of reports tracking the total number of individuals in the UK living below the MIS threshold. Note that the publication date for this series is usually the autumn, but this version was delayed from autumn 2018; we expect to publish the 2017/18 version in late 2019.

The present report shows a reduction in the numbers below MIS in the past three years but identifies some groups for whom the number has risen or remained at a very high level. This includes lone parents, and further analysis in a separate report looks more closely at recent trends and projects for this group.

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

Stone J, Padley M and Hirsch D (2019) 'Households below a Minimum Income Standard: 2008/09-2016/17', York: Joseph Rowntree Foundation [online]. Available at: www.jrf.org.uk/report/households-below-minimum-income-standard-200809-201617 [accessed 25 May 2019]

Loughborough University (2019) 'Centre for Research in Social Policy, Publications' [online]. Available at: www.lboro.ac.uk/research/crsp/publications/ [accessed 25 May 2019]

[Back to top](#)

[House-building boosts construction activity but infrastructure projects fail to materialise](#)

- Surging mortar sales indicate that house-building in Great Britain remained buoyant in 2018 but faltering concrete sales suggest an industry in limbo, waiting for planned infrastructure projects to get going. Latest data from the Mineral Products Association (MPA) show volumes of mortar sales at their highest level since records began in 2004.

The majority of mortar sales take place within six months of house-building projects starting, so increased volumes indicate that new starts also grew during 2018. Year-on-year mortar volumes increased by 14.3%, despite dropping by 1% in the fourth quarter. This trend suggests more cause for optimism than other market

indicators such as Office for national Statistics data on brick deliveries, which show just a 1.6% increase in the 12 months to Q3 2018.

Beyond house-building, the wider picture of construction demand for construction mineral products is more muted, reflecting an industry still waiting for major projects to get going. Ready mixed concrete sales volumes fell 1.6% nationally in 2018, weighed down by reduced demand in London, where sales declined by 4.8%. The MPA's analysis shows that the southern regions of England and Wales led asphalt sales in 2018, indicative of roadbuilding and maintenance activity, contributing to a 0.7% growth nationally and offsetting declines in most other regions. Many Highways England projects appear to have been pushed to the back end of the current spending periods.

Aurelie Delannoy, director of economic affairs at the MPA, said: "Like many sectors, construction is awaiting the outcome of Brexit negotiations, but our data shows that Great Britain is still building despite the uncertainty. In particular, strong mortar sales indicate continuing new house-building projects in 2018. Our analysis, based on actual sales and on-the-ground activity rather than sentiment, suggests this has been higher than forecasted by other metrics.

"Elsewhere, the picture for the industry is more muted as we wait for several major infrastructure schemes to make the leap from the planning phase to the construction site. Policymakers and clients need to be mindful that the critical mineral resources that underpin our built environment don't flow from a tap, and preparations to ensure a ready supply need to be early in a project's lifecycle."

The MPA represents more than 520 companies across the £20bn sector. Its sales data is seasonally adjusted and drawn from the MPA membership which covers 100% of GB cement production, 90% of aggregates, 95% of asphalt and more than 70% of ready mixed and precast concrete production.

The Construction Index (2019) 'House-building boosts construction activity but infrastructure projects fail to materialise', Construction Index [online]. Available at: www.theconstructionindex.co.uk/news/view/house-building-boosts-construction-activity-but-infrastructure-projects-fail-to-materialise [accessed 25 May 2019]

[Back to top](#)

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 25 May 2019]

[Back to top](#)

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 25 May 2019]

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

[Back to top](#)

Affordable Housing

Publication | Spotlight: Planning and housing delivery

- There is no single factor governing the rate of delivery of a site. Considerations include site size, market strength and pricing.

Introduction

The annual number of residential consents granted has exceeded 300,000 in England for the past two years. This level needs to be sustained and even pushed higher if the target rate of completions is to be achieved over the long term. But, recently, there has been a downturn in the volume of permissions; is this merely a blip or a trend to be concerned about?

With the annual rate of consents exceeding 300,000, there is growing political focus on delivery rates, and more attempts to ensure consents are built out, notably through the Letwin Review. Our previous research papers have highlighted the need for a greater proportion of planning permissions to be granted in the least affordable areas, where demand is greatest.

In this year's paper, we go beyond that analysis and look in more detail at the factors that impact rates of delivery. We also consider whether the current trend towards planning permission being granted on ever-larger sites will improve build-out rates.

Sizing up the pace of deliver

The pace of housing delivery has become a key topic, particularly considering the Letwin Review, which looked at the gap between the amount of land receiving consent and housing completions. As a consequence, it has become an issue of increasing scrutiny both in the preparation of local plans and at the planning application stage.

Despite this, there is no established methodology for assessing how quickly a site can deliver new homes.

Market capacity (in an active market) is often approximated using the rule of thumb of one sale per outlet per week. The overall rate of delivery is then estimated by multiplying the number of outlets that can be supported by the site and adding the affordable housing scheduled to be delivered.

However, our analysis shows that the reality is more complex. The strength of the local housing market, the number of sales outlets operating on site, and the pricing relative to the local market, all influence the absorption of open market new homes.

The Letwin Report identified that diversity in product type and tenure mix can also boost delivery rates.

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

Source: Jackson D, Williams E [et al.], Savills Research and articles (2019), 'Publication: *Spotlight: Planning and housing delivery*' [online], 15 May. Available at: www.savills.co.uk/research_articles/229130/282246-0 [accessed 25 May 2019]

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

[Back to top](#)

Residential Research

Publication | Prime UK Residential

- During uncertain times, the fundamentals of prime are its strength.

Adjusting to disruption

The prime UK housing market has faced its share of disruption over the past five years. Most of it has been politically induced: a combination of some things taxation and all things Brexit.

Throughout that period, the bulk of the market has been price sensitive. It has been dominated, but confined to, needs-based movers, who can only put off life decision for so long. They have been joined by those who have sensed an opportunity to adopt a long-term view of the situation and take advantage of a less competitive buying environment.

The latest figures from HMRC suggest that there were 3,600 sales of £1 million plus property in the first three months of 2019. This is 14% down on the same period the previous year, but the same level as the first quarter of 2014. From this, we can infer that while some discretionary buyers and sellers are sitting on the sidelines, those who are in the market remain serious about it.

Understanding where this disruption has left pricing is crucial to trading sensible in this environment. It is not a one-size-fits-all answer. A property's location, size, condition and likely exposure to tax all matter. Later in the report, we provide a salutary reminder of the fundamentals that underpin value in London and the country. This reveals that a £5 million prime property in the central London market is 38% less expensive for those buying in US dollars than it was back in 2014. For those with an international horizon, prime property in New York is currently 41% more expensive than it is in London.

For others with a distinctly UK focus, average house prices in areas served by a rail commute of between 30 and 60 minutes to the capital are £350,000 less than in inner London.

These are numbers that will not be lost on buyers with a keen eye on what constitutes good value.

Elsewhere, we take a look at what is going on in the most resilient markets, Scotland, prime lettings, and what broadband may, or may not, mean for house prices.

Had we confined our report to these topics, we would have left one significant issue unanswered. We are acutely aware that many will be looking for a perspective on what the protracted Brexit negotiations might mean for the market going forward. That seems a good a place to start as any.

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

Source: Choudhry F, Cook L [et al.], Savills Research and articles (2019), 'Publication: *Prime UK Residential*' [online], 28 March. Available at: www.savills.co.uk/research_articles/229130/279389-0 [accessed 25 May 2019]

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

[Back to top](#)

Commercial Research

Publication | Spotlight: Shopping Centre and High Street Investment

- Retail sales are holding up but it's the rising costs of servicing online platforms that's really shaping occupational demand.

Consumer confidence is clearly feeling the effects of Brexit uncertainty having reached its lowest level in five years in December, albeit February did see a one point improvement. However, the read through to retail sales has been minimal. Retail sales volumes increased 6.6% in March year-on-year, its highest increase in 28 months, reflecting an upward trend that first materialized in November which places current growth well ahead of that seen in the 12 months immediately after the EU Referendum.

An acceleration in real wage growth, supported by slowing inflation, has been key to this as well as a certain degree of consumer ambivalence to Brexit mirrored in the consumer confidence measure holding at the same level for the last three months. How long real wage growth, and in turn retail sales growth, can be sustained will be dependent on wider economic conditions in a post-Brexit scenario, which at this point is hard to call.

While the overall retail sales data paints a positive picture much of this growth can be attributed to online and has been reflected in retailer trading statements. E-commerce retail sales, on a value basis, reported a 12.4% growth in March year-on-year whereas store sales growth was estimated to have grown 2.7%. The positive is that this is growth off a much higher base and does point to an upward trend on a rolling three-month basis. There is no doubt that migrating spend online, plus structural shifts in spending habits towards more leisure and experiences, will reduce store requirements with the fashion sector more exposed than others. But, the biggest immediate challenge is its impact on costs and margins. In their latest annual statement Next noted that for every £1 that migrates to their online platform there is an additional cost of six pence. Yet, at the same time they noted the important role their store network plays in servicing their online business and mitigating these additional costs. These increasing costs were reflected in a small softening in Next's operating profit with a

similar trend seen across a number of other fashion retailers that have expanded their online platforms. In contrast, Primark, who have no online presence reported a 25% growth in Group operating profit. Further information and access to the research in full is available @

Oakley M, Hickey M and Arnold J (2019), 'Publication: *Spotlight: Shopping Centre and High Street Investment*' [online], 15 May. Available at: www.savills.co.uk/research_articles/229130/282362-0 [accessed 25 May 2019]

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

[Back to top](#)

Rural Research

Publication | Spotlight: Viticulture in the UK

- In the last 20 years UK wine has been recognised as a serious business and now offers a flexible way for landowners to diversify

A growing industry

Even the most optimistic person would describe the present economic, political and climatic period as volatile. Farming is far from insulated from these events. Short term, the Common Agricultural Policy (CAP) will come to an end and be replaced by an uncertain system of public money for public goods. Longer term, climate change will likely increase the frequency of freak weather events such as floods and droughts. Creating multiple income streams and tapping into niche areas such as viticulture allows businesses to mitigate risk from this uncertainty. Growing grapes in Europe is no longer restricted to the Mediterranean. It is one of the fastest growing areas of the UK economy and an opportunity for landowners to diversify. Viticulture can be as a small project, needing only around three hectares potentially to turn a profit. This small commitment could appeal to those with smaller holding or those who want a new enterprise without adversely affecting existing rotations. Our nation's talent for wine-making was only recognised around 20 years ago but has grown rapidly to meet an increasing demand for domestic vintages.

Yields of grapes can vary a great deal from year to year because of the weather. Poor years occurred in 2008 and 2012 through bad weather and low light levels. However, the extreme heat of 2018 has been described as "the worst summer for decades" by arable farmers, while English winemakers described the same summer as "near perfect". A high quantity of high-quality grapes gave 15.6 million bottles of wine.

Demand for UK wine is currently ahead of supply. Almost all the area under vine is dedicated to high-quality grape varieties and that area is growing fast. It has tripled since 2000. The national story began when Sussex vintner Nyetimber won gold at the International Wine and Spirits Challenge in 1997. Since then, UK wine has been recognised as a serious business, producing high-quality goods.

Viticulture is a flexible way to diversify and almost any landowner can get involved. Simply growing grapes and selling them to another wine-making business may be enough by some, but far more can be done. Even if wine is produced off-site on a contract basis, the finished article would be an attractive product on local shelves or in local restaurants. Vineyards themselves are often found on sunny hills in picturesque parts of the country, ideal for hosting tourists for a day trip or a weekend getaway.

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

Norton E, Lloyd J [et al.] (2019), Research and articles, Publication: '*Spotlight: Viticulture in the UK*' [online], 1 May. Available at: www.savills.co.uk/research_articles/229130/281784-0 [accessed 25 May 2019]

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

[Back to top](#)

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 and research articles Incl.

- **Commercial investment – ‘Resilience in the face of Brexit’ – 23 January 2019** [online]. Further information is available at: www.savills.co.uk/research_articles/229130/274449-0 [accessed 25 May 2019]
- 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 25 May 2019]

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

[Back to top](#)

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

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

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

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

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

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

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

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

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

[Back to top](#)

Related Links/Source of further information –

Latest ‘Research briefings’ from the House of Commons Library

The House of Commons Library produces research briefings that 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, 2019 -

Housing Market: Key Economic Indicators [18 April 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02820> [accessed 25 May 2019]

House prices (UK): Social Indicators page [17 April 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02645> [accessed 25 May 2019]

What if there's no Brexit deal? [8 February 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8397> [accessed 25 May 2019]

Brexit: a reading list of post-EU Referendum publications by Parliament and the Devolved Assemblies [11 February 2019] [online]. Further information is available at <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7912> [accessed 25 May 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.

Rough Sleepers and Anti-Social Behaviour (England) [2 April 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7836> [accessed 25 May 2019]

Leasehold and commonhold reform [12 April 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8047> [accessed 25 May 2019]

Planning Appeals [22 March 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN06790> [accessed 25 May 2019]

Building Regulations and Safety: Review and Reforms [25 February 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8482> [accessed 25 May 2019]

2018

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

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

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

Under Education, 2019 –

Careers guidance in schools, colleges and universities (England) [23 April 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7236> [accessed 25 May 2019]

T Levels: Reforms to Technical Education [23 April 2019]. Further information is available at: <https://researchbriefings.parliament.uk/?ContentType=Commons+Briefing+papers&Topic=Education&SubTopic=&Year=&SortByAscending=false> [accessed 25 May 2019]

Cost of university courses in England [18 April 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8386> [accessed 25 May 2019]

The review of university admissions [10 April 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8538> [accessed 25 May 2019]

Returns to a degree [5 April 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8389> [accessed 25 May 2019]

Higher education students' numbers [8 February 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7857> [accessed 25 May 2019]

Higher education funding in England [12 March 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7973> [accessed 25 May 2019]

What if there's no Brexit deal? [8 February 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8397> [accessed 25 May 2019]

Brexit: Proposals for the future UK-EU relationship [25 January 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8483> [accessed 25 May 2019]

International and EU students in higher education in the UK FAQs [21 January 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7976> [accessed 25 May 2019]

Special Educational Needs: support in England [8 February 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN07020> [accessed 25 May 2019]

Children and young people's mental health – policy, CAMHS services, funding and education [8 January 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7196> [accessed 25 May 2019]

Under Energy and environment, 2019 –

Brexit: a reading list of post-EU Referendum publications by Parliament and the Devolved Assemblies [17 April 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7912> [accessed 25 May 2019].

Brexit: Proposals for the future UK-EU relationship [29 March 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8483> [accessed 25 May 2019]

What if there's no Brexit deal? [8 February 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8397> [accessed 25 May 2019]

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

Plastic Waste [3 April 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8515> [accessed 25 May 2019]

Environmental principles and governance: the draft Bill [30 January 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8484> [accessed 25 May 2019]

Q&A: Cavity Wall Insulation [8 January 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8471> [accessed 25 May 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 25 April 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 25 May 2019]

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

[Back to top](#)

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 [25 May 2019](#), Policy latest incl.

- **Press Release: Combined Action Needed to Tackle Severe Skills Shortages** (see below),
- **Construction and the Modern Slavery Act: Tackling Exploitation in the UK** (see below), and
- **CIOB, RIBA and RICS collaborate on initiative to improve building quality** (see below)

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

[Back to top](#)

[Press Release: Combined Action Needed to Tackle Severe Skills Shortages](#)

- Leading construction bodies have called for united action between industry and Government to address skills pinch-points.

Nine industry federations and representative bodies have jointly called for collaboration to boost availability of occupations in greatest shortages including site supervisors, operatives and quantity surveyors.

The organisations – Association for Consultancy & Engineering, Build UK, Civil Engineering Contractors Association, Construction Plant-hire Association, Construction Products Association, Federation of Master Builders and the Chartered Institute of Building – want to see the industry work together to accelerate recruitment for 18 severe shortage roles in industry.

These roles are:

- Acoustic Engineers; • Bricklayers; • Carpenters; • Ceiling Fixers; • Chartered Surveyors; • Civil Engineers; • Construction & building trades supervisors; • Construction Project Managers; • Design engineers; • Dry Liners; • General Labourers; • Groundworkers; • Mechanical & Electrical Engineers; • Planners; • Plant and Machine Operatives; • Production Managers and Directors; • Quantity Surveyors; and • Structural Engineers.

The roles have been identified through research from across the members of each organisation and the wider industry as those that are hardest to recruit for. They are vital to the delivery of projects nationwide. The groups recommend that wherever possible, steps should be taken to recruit for these roles within the UK, bringing in new workers or upskilling the existing workforce.

Where this is not possible, it is proposed that the Government add the roles to its Shortage Occupation list as part of its current review of migration as the UK leaves the EU. Additions to the Shortage Occupation list would allow these roles to be prioritized in future migration from the rest of the world, helping industry to fill these essential roles.

Suzannah Nichol MBE, chief executive at Build UK, said “Construction projects across the UK are being held back by a shortage of suitable skills. This survey provides vital evidence of the specific roles which must now be considered by the Government for inclusion on the Shortage Occupation list ensuring that we can keep Britain building.”

CECA chief executive Alasdair Reisner said: “Speaking to companies from across UK construction we have identified some key roles where recruitment is already very difficult, or where it will become so once migration from the EU is reduced post-Brexit.

“We believe that it is crucial what we work together, as an industry and with Government to target these shortages occupations, boosting recruitment and training in the UK, while looking to sensible migration from the rest of the world to meet additional demand.”

Patrick Cusworth, head of policy and public affairs at the CIOB, said: “We recognise that the construction industry in the UK needs to be more ambitious in terms of recruiting, training and developing more people than it currently does.

“However, research has shown that in the short-to-medium term the industry needs to be able to continue to access migrant labour in a number of key professions such as construction and project management and a number of site-based roles.

“If we are to deliver ambitious housing and infrastructure targets and deliver the quality and high standards people expect, then we must ensure that we have the flexibility in place to recruit to these roles, while at the same time taking a longer view on recruitment and retention in the UK construction industry.”

George Lee, CEO of the Highways Team Maintenance Association, said: “The Government has committed to supporting economic growth through improved highways infrastructure, however, the survey and report into shortage occupations exposes the need for highways sector employers to be able to access more skilled and semi-skilled labour in order to deliver Government’s ambitions. In short Government needs to ensure that its skills and migration policies are aligned if it wants to deliver on its roads agenda.”

Richard Beresford, chief executive of the National Federation of Builders, said: “The industry working together has produced a clear picture of where the construction industry will lack skills. It is vital we continue to work together to improve capability in these areas and with Government to ensure that skills are part of a comprehensive immigration scheme.”

Related Links:

Barnes D (2019) ‘Response to the MAC Shortage occupation list 2018: call for evidence’ [CIOB Policy and Public Affairs > Consultations > Response to the MAC Shortage occupation list 2018: call for evidence] CIOB [online]. Available at: <https://policy.ciob.org/consultations/response-to-the-mac-shortage-occupation-list-2018-call-for-evidence/> [accessed 25 May 2019]

Gerrard N (2019) ‘Construction plea for roles on ‘Shortage Occupation’ list’, *Construction Manager* [online], 25 January. Available at: www.constructionmanagemagazine.com/news/call-18-construction-roles-be-added-shortage-occup/ [accessed 25 May 2019]

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

Source: Barnes D (2019) ‘Press release: Combined Action Needed to Tackle Severe Skills Shortages’ [CIOB Policy & Public Affairs > News & Views > Press Release: Combined Action Needed to Tackle Severe Skills Shortages] CIOB Policy & Public Affairs [online]. Available at: <https://policy.ciob.org/press-release-combined-action-needed-to-tackle-severe-skills-shortages/> [accessed 25 May 2019]. [Back to top](#)

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 25 May 2019]. [Back to top](#)

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 25 May 2019]

Further information is also available at

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

[Back to top](#)

Apprenticeships –

Apprenticeships start rise for first time since levy launch

- Apprenticeship starts have risen for the first time since the introduction of the apprenticeship levy in April 2017, the latest figures show (see publication date).

There were a total of 225,800 apprenticeship starts between August 2018 and January 2019, an increase of nearly 10% on the same period a year before.

However, the figure was still below the number of starts registered before the levy, with 269,000 in 2016/17 and 264,600 in 2015/16.

The figures cover all types of apprenticeships and were not broken down to show how the number of apprenticeships starts in the construction industry has changed.

The Department of Education said that companies taking part in the apprenticeship levy had two years to spend their funds and that as the system became more established, the number of apprenticeships starts being reported was likely to change further.

For further information, please visit:

Source: Gerrard N (2019) 'Apprenticeships start rise for first time since levy launch', *Construction Manager* [online], 29 March. Available at: www.constructionmanagermagazine.com/news/apprenticeships-starts-rise-first-time-levy-launch/ [accessed 25 May 2019]

Related links:

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

Fire It Up (n.d.) YouTube [channel]. Available at: <https://www.youtube.com/user/ApprenticeshipsNAS/featured> [accessed 25 May 2019]

- Inspiring potential apprentices and employers to **Fire It Up with apprenticeships**. Also, please visit the **Apprenticeships** website [online]. Available at: www.apprenticeships.gov.uk [accessed 25 May 2019]

BBC News (2018) 'Apprenticeships down amid "frustration"' [online], 19 April. Available at: www.bbc.co.uk/news/business-43809679 [accessed 25 May 2019]

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

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

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

[Back to top](#)

Further 'Apprenticeship-related' links:

UCEM Apprenticeship programme – Development talent for your business

Further information is available via the UCEM Website [online] and available @ www.ucem.ac.uk/development-talent-for-your-business/apprenticeships/ [accessed 25 May 2019]

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

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

[Back to top](#)

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 25 May 2019]

CIOB, CM - Construction Manager (2017), Apprenticeship levy: making the most of it, *Construction Manager* [online], 14 May. Available at: www.constructionmanagermagazine.com/management/how-currie-brow7n-m8aking-apprenticeship-levy/ [accessed 25 May 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.constructionmanagermagazine.com/management/get-head-start-apprenticeship-levy/ [accessed 25 May 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.constructionmanagermagazine.com/news/ne1w-apprenticeship-levy-qa/ [accessed 25 May 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 25 May 2019]. Dr Mark Jones is the Chief Operating Officer at the Higher Education Academy (HEA)

[Back to top](#)

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 25 May 2019]

[Back to top](#)

Further information on 'Designing Buildings Wiki' –

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

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

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

- Architectural competitions – How to increase your chances of winning
- **Infrastructure – Benefits, not cost, should be the focus.**
- Electric vehicles – Formula E drives electric vehicle market forward.

- Foundations – Moorfields building sets UK pile-loading record.
- **Sustainability – ICE launches an engineering route-map to deliver UN SDGs.**
- **Construction management – Five steps to a health data culture in construction**
- Design – Kevin McCloud reveals his sustainability ‘hero’ products.
- **Planning – BREEAM launches local planning authority guidance (see further information above) - https://www.designingbuildings.co.uk/wiki/BREEAM_launches_local_planning_authority_guidance**
- **Sustainability – Designing future heritage buildings**
- Conservation in action – The Engine Shed – a hub with many spokes
- Sustainability – Five things leaders can do to create a truly circular economy
- Pay per mile – The case for a new road-user charging scheme in London
- **Feasibility – Cost-benefit analysis in construction**
- Materials – Sourcing indigenous stone
- Completion – What’s the difference between practical completion and partial possession?
- Infrastructure – What should be in the National Infrastructure Strategy?
- **Construction contracts – Back-to-back provisions and how they benefit the supply chain**

This month also contains **news** (as of 17 May 2019) from the following organisations and online journals incl.

- BBC, May 17 – Architect I M Pei dies aged 102
- Scottish Construction Now, May 16 – New grants launched for research into arts for the built environment
- ECA, May 15 – Power Players 2019 is now open for entries
- **The Construction Index, May 16 – Lords call for HS2 rethink**
- BSRIA, May 2019 – BSRIA confirms keynote speaker for prestigious industry event.
- **25housing, May 16 – A third of local authorities support community-led housing (see further information above).**
- GOV.UK, May 16 – New facility will boost UK plans for zero-emission vehicles.
- **Dezeen, May 15 – Seven outrageous design proposals for Notre Dame (see further information below).**
- Institution of Civil Engineers, May 15 – Latest digital strategy insights from the Environment Agency.
- Quality in Construction Summit, May 16 – Join 200+ including Kier, Vinci and Skanska.
- Construction Enquirer, May 15 – Developer awaits decision on £3bn Canada Water scheme.
- **GOV.UK, May 14 – Japan’s biggest housebuilder to move into UK market (see further information above)**
- **Construction Enquirer, May 14 – Go-ahead given for 6,500 homes on Cambridge airfield.**
- **BIM+, May 6 – PlanRadar project management software launches in UK (see further information below)**

‘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**, (2019) [online]. Further information is available at: www.designingbuildings.co.uk/wiki/Home [accessed 25 May 2019]

'Designing Buildings Wiki' presents the most popular articles in each of their 32 subject areas/categories

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

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

Category – Project Activities

SUBJECT AREA	MOST POPULAR ARTICLE
1. Appointments	Design and build
2. BIM	Level of detail
3. Client procedures	Project brief
4. Contracts/Payment	Variations
5. Construction management	Tender documentation
6. Construction techniques	Value engineering
7. Cost / business planning	Bill of quantities
8. Design	Types of drawings
9. Procurement	Preliminaries

10. Products / components	Pile foundations
11. Property development	Building design and construction fees
12. Public procedures	Procurement routes
13. Roles / services	Architect's fees

Category – Legislation

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

Category – Industry context

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

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

Source: **Designing Buildings.co.uk Wiki**, (2017) 'Most popular articles in each subject area' [online], last edited 11 May 2017. Further information is available at: www.designingbuildings.co.uk/wiki/Home_and www.designingbuildings.co.uk/wiki/Most_popular_articles_in_each_subject_area [accessed 25 May 2019]

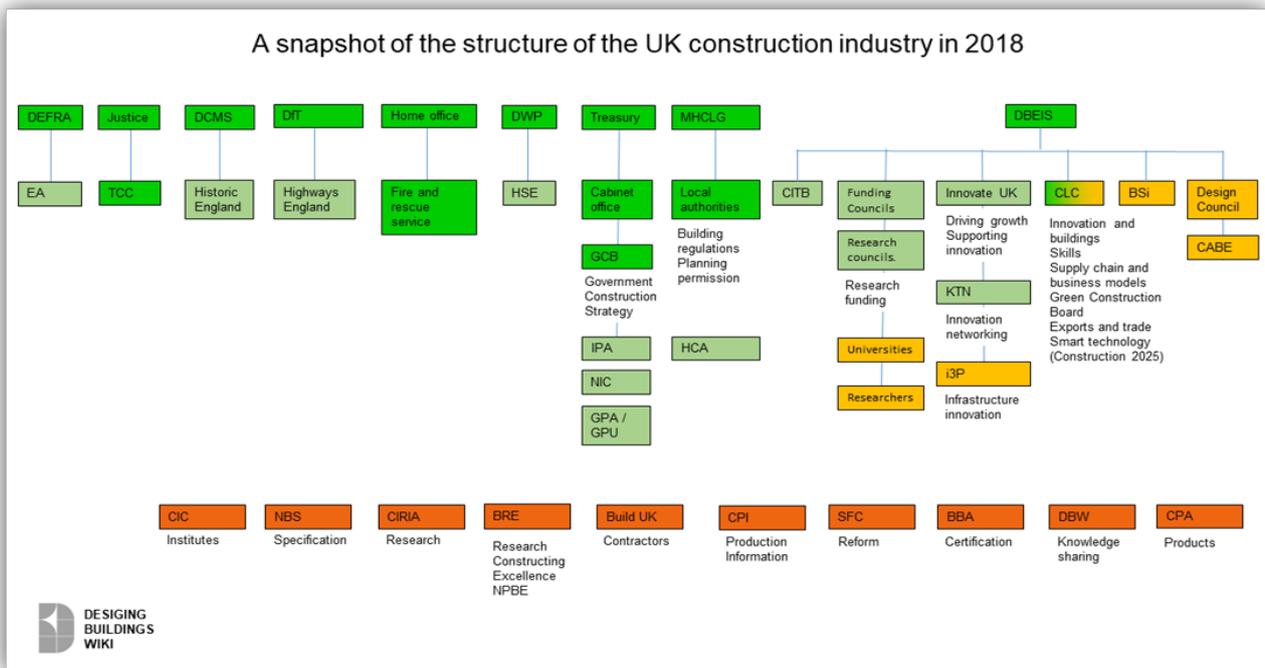
Related Link:

Designing Buildings.co.uk Wiki, (2017) 'Types of drawings' [online], last edited 5 October 2018. Further information is available at: [www.designingbuildings.co.uk/wiki/Home and types of drawings for building design](http://www.designingbuildings.co.uk/wiki/Home_and_types_of_drawings_for_building_design) [accessed 25 May 2019]

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

[Back to top](#)

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 25 May 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 Emerson Report) published in 1962, but most notably it was highlighted in Sir Michael Latham's 1994 report 'Constructing the Team', which notoriously described the industry as 'ineffective', 'adversarial', 'fragmented' and 'incapable of delivering for its customers'.

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

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

On a straight-forward 'traditional' project, design consultants and the main contractor, sometimes referred to as tier 1 suppliers, work for the employer, and the main contractor may have a limited chain of their own suppliers. However, the situation becomes more complicated on large projects, where the employer may have a significant

number of tier 1 suppliers, all with complex and extended supply chains of their own, some of whom may be completely unknown to the employer at the top of the chain.

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

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

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

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

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

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

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

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

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

www.designingbuildings.co.uk/wiki/Fragmentation_of_the_UK_construction_industry [accessed 25 May 2019]

[Back to top](#)

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 25 May 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 25 May 2019]

[Back to top](#)

Designing Buildings Wiki – Student resources

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

www.designingbuildings.co.uk/wiki/Student_resources [accessed 25 May 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**.

NOTE: Use of Wikipedia as a reference site:

Wikipedia and use of other Wikis 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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[Back to top](#)

The Construction Information Service (CIS) – Insight 05/2019 May Edition

- CIS Insight (05/2019 Edition) –

This month's *Insight* focuses on 'Building Regulations explained'

- History of UK and ROI building regulations
- Key documents
- Using CIS Interest to stay up-to-date

Abstract

Building Regulations are national building standards that Parliament legislates in order to protect the public interest and ensure building works meet a specified level of safety and quality. This article explores UK and ROI building regulations and provides information around current legislation.

Subjects covered, and questions broached incl.

A brief history of Building Regulations in the UK and ROI

Primary and Secondary Legislation

- England and Wales
- Scotland
- Northern Ireland
- Republic of Ireland

The separation of English and Welsh Building Regulations

Guidance and other associated documentation

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

Source: NBS (2019), The Construction Information Service (CIS) – *Insight 05/2019: Building Regulations explained* [online]. Further information available at: www.thenbs.com/knowledge/building-regulations-

[explained?scl=01MzUzQzlwMDUtNzEyNi00RDZBLTg2NEItNTQzNTAxOTg4Nzk0XzYzNjk0NzI4Mjg0NDIxNjEzNQ%3d%3d](https://www.thsmithinstitute.org.uk/explained?scl=01MzUzQzlwMDUtNzEyNi00RDZBLTg2NEItNTQzNTAxOTg4Nzk0XzYzNjk0NzI4Mjg0NDIxNjEzNQ%3d%3d) [accessed 25 May 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.

[Back to top](#)

The Smith Institute

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

- **Economy and Finance** - This policy theme includes work on macro-economics, trade, tax and finance. The Smith Institute's work in this area has looked at the relationship between fairness and a strong economy.
- **Government and Politics** - The Institute is interested in constitutional reform, active citizenship and political participation. Future work will be exploring voting trends, the interplay between politics and policymaking and improving political engagement.
- **Sustainability and Environment** – The Institute's work in this field has looked at food supply, homeworking, eco-housing, and energy policy.
- **Business and Third Sector** - This policy theme includes work on the business, corporate responsibility, access to finance, charitable giving and social enterprises. This year our work in this area will be focusing on corporate governance, business and rebalancing the economy, and the third sector and public services.
- **Local Government Cities and Regions** - This policy theme includes work on the devolution and regional economic disparities and development. The economic downturn is exacerbating the gap between London (and the Greater Southeast) and other areas of the UK. Set against this backdrop the Institute is continuing work on city-regions, economic geography and localism.
- **Housing and Regeneration** - This policy theme includes work on social housing, private rented sector, eco-towns, regeneration, suburbia, and urban renewal. The Institute's work this year will be mainly focused on funding social housing, eco-homes, and place-making.
- **Work and Welfare** - This policy theme includes work on wages, good work employment, welfare, worklessness, pay, outsourcing and skills. The Institute recently undertook a major inquiry into making undertaken by Ed Sweeney (former chair of ACAS) into Making Work Better. This report was widely welcomed including support from the Labour party, unions and the EEF. The Institute's future work programme is going to focus on procurement, living wage, employment protection and will focus on some of the main themes from the *Making Work Better* report.
- **Education and Families** – The Institute's work in this policy area has looked at all levels of formal education and on early intervention policies. The Institute believe that it is far better and fairer for individuals and society, and makes clear economic sense, to intervene early before problems develop in later life.
- **Health and Wellbeing** - This policy theme covers work on healthcare, healthy living and mental health. The Institute are interested in health and social care, the delivery of efficiencies and fairness in the NHS, and health prevention. Future work will be focusing on the impact of the health and social care act, the ageing society, integration and public health.
- **Security and Criminal Justice** - This policy theme includes work on the criminal justice system, reducing re-offending and issues around combatting terrorism and national security. The Institute aim to undertake further research on offender management and security policy.
- **EU and International** - This policy area include work on the European Union, trade, and Britain's relationship with the international community and role in the world. The Institute have published a collection of essays on social Europe which, it is hoped will be followed up this year. The Institute also aim to undertake further work on economic nationalism and globalisation.

The Institute's activities are informed by a network of well-known experts, policy makers, research fellows and patrons. Based in London, it works in partnership with a range of public and private organisations, foundations and charities. As a charity, The Smith Institute had an excellent track record in influencing and shaping public policy, and extensive national and international contacts. Over the last decade it held over 500 events and published more than 150 reports – including '*Working together – thinking alike: What do councils and local enterprise partnerships expect from housing associations*' (as mentioned earlier in this issue), with contributions

from Prime Ministers and MPs to archbishops and chief executives. The Smith Institute, recently reconstituted as a not-for-profit organisation, will sustain and develop this record of achievement, and maintain its reputation and influence in Westminster and Whitehall.

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



www.facebook.com/pages/The-Smith-Institute/251600568286?v=wall [accessed 25 May 2019]



https://twitter.com/smith_institute/ [accessed 25 May 2019]



on The Smith Institute's website [online] and available @ www.smith-institute.org.uk/?page_id=66 [accessed 25 May 2019]

[Back to top](#)

Latest Research from The Smith Institute incl.

The unspoken decline of outer London – Why is poverty and inequality increasing in outer London and what needs to change?

This report by the Institute's deputy director, Paul Hunter, follows on from previous research by Paul on poverty in suburbia and on housing and low pay in London. It also complements the excellent London Poverty Profile by the Trust for London, as well other studies on poverty and inequality in London by the GLA, JRF and the London Fairness Commission. What is distinctive about this report is the focus on understanding the extent to which poverty and inequality have worsened in outer London in recent years, especially relative to inner London.

Paul provides a critique of agglomeration theory and so-called 'city centralism' that dominates the current policy landscape around economic development. Whilst acknowledging the benefits this approach has brought, he carefully documents the downsides for those on low incomes in outer London boroughs. His detailed statistical analysis is enriched with insights gathered from focus group discussions with low-income residents from outer London as well as interviews and meetings with experts and key stakeholders. This blend of data, information and opinion underpins Paul's agenda for change, which is presented in the final section of the report in the form of a series of policy recommendations and ideas to rebalance London's economy.

In presenting a range of possible solutions mostly directed at the London Mayor and outer London boroughs, Paul hopes to provoke a broader debate around the challenges facing outer London (and London as a whole). Some of the proposals, such as redirecting the funding for Crossrail 2, are highly controversial, others, such as promoting the London Living Wage, are widely supported. What matters that they challenge the status quo and seek to counter rising poverty and inequality in outer London.

London is now entering a new era and its leaders will need to plan ahead carefully to deliver the shared prosperity its citizens want. A poorer and more detailed city, with an ever-widening gap between a wealthier inner London and a poorer outer London is not an option. As this report argues, renewed efforts are required to secure inclusive and sustainable growth across all London's boroughs – not a displacement from one area to another.

Further information and access to the series incl.: **All Reports, Economy & local growth, Housing, World of work.** Tagged with: **2018**

Hunter P (2019), '*The unspoken decline of outer London: Why is poverty and inequality increasing in outer London and what needs to change?*' [online]. Further information is available at: www.smith-institute.org.uk/

[institute.org.uk/book/the-unspoken-decline-of-outer-london-why-is-poverty-and-inequality-increasing-in-outer-london-and-what-needs-to-change/](https://www.smith-institute.org.uk/book/the-unspoken-decline-of-outer-london-why-is-poverty-and-inequality-increasing-in-outer-london-and-what-needs-to-change/) [accessed 25 May 2019]

The Smith Institute, Publications [online] and available at: www.smith-institute.org.uk/?post_type=books [accessed 25 May 2019]

[Back to top](#)

Spending fairly, Spending well: time for a radical overhaul of value for money and public audit

Concerns over the public's trust in Government and how public services are funded, delivered and accounted for, are now centre stage in both Whitehall and Town Halls. Meanwhile Ministers and Whitehall are gearing up for the 2019 Spending Review and political leaders increasingly see the need for fiscal renewal. However, persuading the public to have confidence in the Government's spending of their taxes is essential to keeping the state fit, funded and functional. It is against this backdrop that David Walker and John Tizard are calling for a radical rethink about the impact of expenditure and how it is accounted for.

The authors not only set out the case for a more devolved, more accountable and more reliable system, but offer ambitious proposals for unifying the way public services are assessed to ensure they are delivering effectiveness, fairness and value for money. They call for new agencies, including an independent Office of the 3Es (effectiveness, efficiency and equity), a change to the remit of the National Audit Office (NAO) and a new Public Interest Appraisal Unit. These reforms alone won't restore the public's trust in Whitehall and Westminster's or local government's credibility regards public expenditure, but they could make an important improvement.

Kerslake B, Walker D, and Tizard J, The Smith Institute (2019), *Spending fairly, Spending well: time for a radical overhaul of value for money and public audit* [online]. Further information and access to the report is available at: www.smith-institute.org.uk/book/spending-fairly-spending-well-time-for-a-radical-overhaul-of-value-for-money-and-public-audit/ [accessed 25 May 2019]

The Smith Institute, Publications [online] and available at: www.smith-institute.org.uk/?post_type=books [accessed 25 May 2019]

[Back to top](#)

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

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

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

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

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

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

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

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

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

[Back to top](#)

#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 25 May 2019], London: The Smith Institute

The Smith Institute, Publications [online] and available at: www.smith-institute.org.uk/?post_type=books [accessed 25 May 2019]

Related links:

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 25 May 2019]

Balsamini D (2018) **'Construction company rolls out first inclusive 'at work' signs'**, *New York Post* [online], 8 December. Available at: <https://nypost.com/2018/12/08/construction-company-rolls-out-first-inclusive-at-work-signs/> [accessed 25 May 2019]

[Back to top](#)

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 25 May 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 25 May 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 25 May 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 25 May 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 25 May 2019]



<https://twitter.com/nationaltrust/> [accessed 25 May 2019],



www.facebook.com/nationaltrust [accessed 25 May 2019],



www.youtube.com/user/nationaltrustcharity/ [accessed 25 May 2019]

[Back to top](#)

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 25 May 2019]

[Back to top](#)

National Trust – “Our planning principles”

“Our planning principles are used to guide us in our decision-making on the way land is developed and managed.” (National Trust, 2016)

These principles are used to guide the National Trust in their decision making about land use and planning incl.

Seeking to influence – The National Trust seek to influence the Planning system at local, regional and national levels in accordance with their statutory purpose and will promote an integrated approach to sustainable development.

Supporting spatial planning – The National Trust support spatial planning which takes a holistic approach to the environment and its resources, plans long-term, looks at the landscape, catchment or coastal ‘cell’ scale and considers climate change implications.

Sensible management – The National Trust promote the wise management of the natural environment and built and cultural heritage, for our future generations, and will support high design quality.

Protecting our environment – The National Trust will seek to protect wild and remote landscapes from built development or urbanisation, especially where it impacts on their properties.

Using property management plans – In managing its land through property management plans, the National Trust will support and help to achieve the objectives of any designated landscape, wildlife, or historic sites and arenas.

Objecting to proposals, where appropriate – The National Trust will object to land use or marine-based proposals that have a significant adverse impact on its properties and their settings and context, or in its wider interests.

Using a sustainable construction approach – When proposing development on their land to meet justified needs, the National Trust will use a sustainable construction approach. This will include:

- Minimising resource use and generation of waste,
- Being energy efficient,
- Minimising or preventing all types of pollution and risk of flooding,
- Safeguarding important wildlife, landscape and historic interests,
- Respecting local/regional distinctiveness, supporting local sources for goods and services where practical, and
- Encouraging community involvement and access

National Trust (2018), *Our planning principles* [online] and further information is available @ www.nationaltrust.org.uk/features/our-planning-principles [accessed 25 May 2019]

[Back to top](#)

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 clear 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 25 May 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 25 May 2019]

[Back to top](#)

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 25 May 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 25 May 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 25 May 2019]

[Back to top](#)

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 25 May 2019] and www.revocommunity.org/insights [accessed 25 May 2019]

[Back to top](#)

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 25 May 2019]



<https://twitter.com/FosterPartners> [accessed 25 May 2019,



www.facebook.com/fosterpartners [accessed 25 May 2019],



www.linkedin.com/company/foster-&-partners [accessed 25 May 2019],



www.youtube.com/user/FOSTERANDPARTNERS1 [accessed 25 May 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), 3 August 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 25 May 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.

[Back to top](#)

Step-by-step guide to using BIM on projects



This step-by-step guide explains how level 2 building information modelling (BIM) can be used for the development of a built asset such as a new building. Level 2 BIM is required as a minimum on centrally-procured public projects in the UK and is commonly used on private-sector projects.

This guide is written for us by people who are not BIM experts and will be helpful for employers, consultants, contractors and suppliers. To help understand BIM, a glossary of BIM terminology is provided along with a wide selection of supporting articles.

Projects that incorporate level 2 BIM identify the decisions that will need to be made throughout the life of a built asset and the information deliverables required at each stage of the project to support those decisions. This ensures that appropriate information is created and shared in a suitable format at the right time so that better decisions can be made throughout the delivery and operation of built assets.

Information deliverables include model files, documents and structured data files containing information about the facility, floors, spaces, systems and components. Together these create a digital replica of the built asset that starts by representing design intent and matures by the time handover occurs to reflect what has actually been built and installed.

The guide shows how level 2 BIM can be incorporated into to a project following the RIBA plan of work 2013 stages. The first two stages have been broken down into sub-sections where important employer decisions have been identified that are not included within the RIBA plan or work.

The end of each stage is marked by an employer's decision point, or gateway, at which the employer needs specific information to help them decide whether the project has developed satisfactory and whether it should continue to the next stage.

The guide is aligned to PAS 1192-2, the standard for level 2 BIM in the capital/delivery phase of construction projects in accordance with the other information management industry standards such as BS1192:2007, BB1192:4 and PAS1192:5.

Further information provided via the below-mentioned source link to the following:

Stage 0: Strategic definition

- 0a: Business justification
- 0b: Strategic brief

Stage 1: Preparation and brief

- 1a: Appraisals
- 1b: Brief and information requirements
- 1c: Supplier appointments

Stage 2: Concept design

Stage 3: Developed design

Stage 4: Technical design

Stage 5: Construction

Stage 6: Handover and close out

Stage 7: In use

For further information, please visit:

PCSG (2019) 'Step-by-step guide to using BIM on projects', Designing Buildings Wiki [online] Last edited 5 April. Available at: https://www.designingbuildings.co.uk/wiki/Step-by-step_guide_to_using_BIM_on_projects [accessed 25 May 2019]

NOTE: Use of Wikipedia as a reference site:

Wikipedia and use of other Wikis 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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[Back to top](#)

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 25 April 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 25 April 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 25 May 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 25 May 2019]

The NBS, NBS TV – Design & Specification [online]. Further information and additional programmes are available at: www.thenbs.com/knowledge/design-specification [accessed 25 May 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 25 May 2019]

[Back to top](#)

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 25 May 2019]

[Back to top](#)

NBS National Building Information Modelling (BIM) Survey 2019 [free to download](#) –



Source: www.thenbs.com

- It's that time again ... tell us what you think about BIM.

More than two years after the Government's 2016 mandate for collaborative 3D BIM on all publicly-funded projects, we want to know your thoughts on BIM. Have you adopted it? How embedded is it into your organisation? How is the industry doing at defining level 3 BIM?

The NBS National BIM Report has become an essential resource for both construction professionals and policy makers alike. Have your say by taking part in this ninth survey.

The survey is very similar to previous years looking at:

- Awareness of BIM and the levels
- Whether people have adopted it, and on which types of projects and percentage of projects
- Attitudes of those adapting it versus those who haven't e.g. will it help win new work, has it required changes to processes, etc
- Barriers to adoption where people haven't started using it
- The government and progress to defining level 3 e.g. has the mandate been successful? Is the industry maintaining momentum to level 3 BIM? Have the government been successful at maintaining this momentum?

NBS National BIM Survey 2019 -

The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website, *NBS National BIM Survey 2019 @theNBS* [online] and available at: www.thenbs.com/knowledge/nbs-national-bim-survey-2019 [accessed 25 May 2019]

NBS National BIM Report 2018 -

The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website, *NBS National BIM Report 2018 @theNBS* [online] and available at: www.thenbs.com/knowledge/the-national-bim-report-2018 [accessed 25 May 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 25 May 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 25 May 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 25 May 2019]

[Back to top](#)

Bloggging about BIM, Construction and NBS

Source: The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website [online]. Further information and access to the BLOG are available at: <http://constructioncode.blogspot.co.uk/2015/04/nbs-national-bim-report-2015.html> [accessed 25 May 2019]

[Back to top](#)

Latest News on BIM -

PlanRadar project management software launches in the UK

A new SaaS application for construction and real estate projects has launched in the UK.

PlanRadar provides the construction industry with digital documentation, defect and task management throughout the lifecycle of projects.

Using a smartphone or tablet, when offline, the platform allows construction workers to automate the entire documentation process with interactive blueprints and floorplans, averting errors and saving an average of seven working hours a week in administration time.

More than 3,500 customers already use PlanRadar worldwide to manage construction projects and real estate processes.

Further information is available at:

BIM+ Staff (2019) 'PlanRadar project management software launches in UK' [online]. Available at: www.bimplus.co.uk/news/planradar-project-management-software-launches-uk/ [accessed 17 May 2019]

Related Links:

- 1) Cousins S, BIM+ Staff (2019) 'Blockchain pilot could unlock shared home ownership', Chartered Institute of Building (CIOB) website [online] 24 March. Further information is available at: <http://www.bimplus.co.uk/projects/case-study-battersea-power-station-phase-3a-4d-mod/> [accessed 25 May 2019]
- 2) Cousins, S, BIM+ Staff (2019) 'Case study: Battersea Power Station – 4D models ensure risk-free sequencing', Chartered Institute of Building (CIOB) website [online] 6 March. Further information is available at: <http://www.bimplus.co.uk/projects/case-study-battersea-power-station-phase-3a-4d-mod/> [accessed 25 May 2019]
- 3) CM staff (2019) '**New international BIM standard launched**', *Construction Manager* [online], 22 January. Available at: www.constructionmanagermagazine.com/news/new-international-bim-standard-launched/ [accessed 25 May 2019]
- 4) CDBB (2018) 'Centre for Digital Built Britain (CDBB) Year one Report: Towards a digital built Britain' [online]. Available at: www.cdbb.cam.ac.uk/news/2018CDBBYear1Report [accessed 25 May 2019]
- 5) Kosandiak S, and Philp D, BIM+ Staff (2018) 'The UK move to International BIM standards', Chartered Institute of Building (CIOB) website [online] 7 October. Further is available at: www.bimplus.co.uk/people/uk-move-iso-bim-standards/ [accessed 25 May 2019]
- 6) 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 25 May 2019]
- 7) 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 25 May 2019]

- 8) 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 25 May 2019]
- 9) CIOB (2018) 'Bentley launches guide to BIM' [online]. Available at: www.bimplus.co.uk/news/bentley-launches-guide-bim/ [accessed 25 May 2019]
- 10) Coleman A (2017), Chartered Institute of Building (CIOB) – 'Me and my project: BIM and demolition', *Construction Manager* [online], 5 October. Available at: www.constructionmanagemagazine.com/onsite/me-and-my-project-demolition-design/ [accessed 25 May 2019].
- 11) 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 25 May 2019].
- 12) 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 25 May 2019] **ARTICLE #2829** (BRE). Back to top

Latest library resources Incl. new book titles, journal articles and research

Taylor & Francis / Routledge (an **informa** business) is internationally acclaimed for its high quality, peer-reviewed research, covering physical and biological science, mathematics, engineering, and computer science. **Routledge (Taylor & Francis group)** is a renowned name in academic and professional books, journals and online resources relating largely to the humanities, social sciences, the **Built Environment and Sustainability**.

Within 'Built Environment' section, subject categories incl.

- Architecture
- Building and Construction
- Energy
- Health and Safety
- Landscape
- Planning (incl. **Rural Planning**)
- Property
- E-books: Built Environment

Other collections incl.

- Real Estate Development
- Property Inspection and Maintenance
- Real Estate Management
- Housing and Urban Regeneration
- Property and Real Estate Law
- Economics and Finance
- Valuation and Surveying
- **Property and Real Estate catalogue**
- **Property, Construction and Real Estate, Student Edition**

Taylor & Francis Open and **Routledge Open** - Taylor & Francis and Routledge currently publish several pure open access journals, with **no subscription** content. The articles in these journals receive both rigorous peer review and expedited online publication @ www.tandfonline.com/page/openaccess [accessed 25 May 2019]

For further information, please visit **Taylor & Francis online, FREE-to-view compilations** [accessed 25 May 2019]. Have you ever wanted a quick snapshot of one of our series but didn't know where to start?

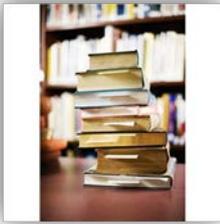
Taylor and Francis Online have compiled a selection of chapters from some of the new and key books + created individual e-books covering a range of subject areas Incl.

Further information is available at **Taylor and Francis Online**, via www.tandfonline.com/ and www.routledge.com/reference/posts/4970?utm_source=plan&utm_medium=cms&utm_campaign=sbu3_vej_3rf_8cm_3pla_rf2v15_bls15_x_plan [accessed 25 May 2019]

The Routledge Sustainability Hub — An innovative Knowledge Centre for the global sustainability community, this Hub offers a wide range of resources for everyone – whether you are a teacher, a student, a professional or a citizen of the earth curious to discover more about the many facets of sustainability. Further information can be accessed [online] and available at www.routledgetextbooks.com/textbooks/sustainability [accessed 25 May 2019]

[Back to top](#)

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 25 May 2019].

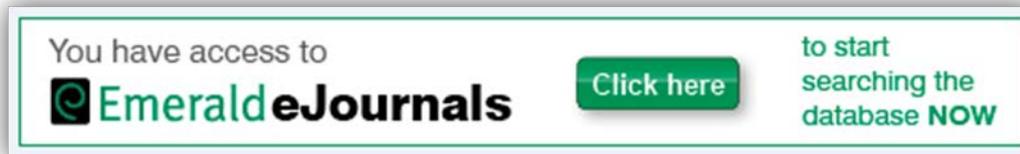
RICS Library services and e-Resources – Similar to the UCEM e-Library, RICS uses DawsonEra as their eBook platform as well as subscribing to EBSCO and Emerald e-Journals. However, whilst RICS only subscribes to 6 specialised Engineering, Construction and Architectural Management titles, **Note:**

UCEM Library services and e-Resources incl. Emerald Insight – Access provided to the ‘Property Management and the Built Environment’ collection

UCEM students and staff have access to over 120 Full-Text Journals within ‘Emerald Management e-Journals’, in addition to the entire (including Backfiles) ‘Property Management and the Built Environment’ collection including the following titles:

- Built Environment Project and Asset Management
- Construction Innovation: Information, Process, Management
- Engineering, Construction and Architectural Management
- Facilities
- International Journal of Housing Markets and Analysis
- Journal of Corporate Real Estate
- Journal of Engineering, Design and Technology
- Journal of Facilities Management
- Journal of Place Management and Development
- Journal of Property Finance
- Journal of Property Investment and Finance

- Journal of Property Valuation and Investment
- Property Management
- Smart and Sustainable Built Environment
- Structural Survey



NOTE: For the above link to work you must ensure that you are logged-in to **Athens via the VLE e-Library**

Please also refer to the **UCEM e-Library portrait** and **Journal Review** mentioned below that shows a wealth of additional and valuable resources that the UCEM Library offers.

Please also note the **RICS Library Online catalogue** which is an excellent resource. Available at: <http://unicorn.rics.org/uhtbin/cgisirsi.exe/0/0/0/60/69/X> [accessed 25 May 2019]

[Back to top](#)

& finally

Seven of the most outrageous proposals for Notre-Dame

- Since the Notre-Dame was devastated by fire last month (see publication date), design proposals for rebuilding the roof and spire have got more and more ridiculous. Here are seven of the most farfetched, including a car park, a swimming pool and a McDonald's.

The Pool by Ulf Mejergren Architects – Rather than topping Notre-Dame with a park, as several designer have suggested, Stockholm studio Ulf Mejergren Architects wants to create a wetter type of public space on top of the cathedral – a swimming pool. The open-air pool, which would have “unmatched views over Paris”, would be surrounded by the 12 statues of the apostles that were removed from the rood before the fire.

Louis Vuitton vs Notre Dame by Pedro Ribs – Pedro Ribs, art director at Brazilian studio Entrequadra Novas Midias, has envisioned a Notre-Dame rebuilt by Moët Hennessy Louis Vuitton (LVMH), as a response to the corporation's donation of €200 million to the cathedral's renovation fund. The project sees the cathedral rebuilt as it was before the fire, but with the Louis Vuitton print used across the roof and square in front of the west entrance. The Louis Vuitton Note-Dame would be complete with the fashion brand's logo placed over the rose windows, and on flags flying from its towers and rebuilt spire.

The Car Park by Yung Yonge and Rob Cross – Yung Yonge envisioned the roof of Notre-Dame being turned into a car park as a dig at North America's car culture. He tweeted the image with the caption: “If North Americans are put in charge of the Notre-Dame reconstruction”. Irish architect Rob Cross took the proposal further by editing the car park to turn it into a multi-storey structure.

Quasimodo's Penthouse by Who Cares Design – Who Cares Design has proposed building a rooftop villa for Quasimodo – the fictional protagonist of Victor Hugo's book *The Hunchback of Notre-Dame* – on top of the cathedral. The penthouse, which would stretch across the cathedral's crossing, is designed to replace Quasimodo's previous home in Notre-Dame's attic.

Mc Note-Dame by Unknown – Could Notre-Dame be turned into the world's largest fast food restaurant? A visual created by known designer, which posted on Reddit, would see the cathedral turned into a McDonald's.

The Dome by Juan Francisco Ronda – Designer Juan Francisco Ronda envisions Notre-Dame being turned into a monument to peace. The building would be enclosed in a translucent dome supported by a column that sprouts from the cathedral's crossing.

The Circus by Unknown – Another design published on **Trust Me, I'm an Architect's** Facebook page. The design would see the whole building turned into a giant circus, with the rood replaced with a big top.

For further information please visit:

Ravenscroft T (2019) 'Seven of the most outrageous proposals for Notre-Dame', Dezeen [online]. Available at: www.dezeen.com/2019/05/15/notre-dame-rebuild-outrageous-proposals/?utm_medium=email&utm_campaign=Daily [accessed 25 May 2019]

Related Links:

Thompson B (2019) 'What the Notre Dame restoration will have to consider', *Construction Manager* [online], 17 April. Available at: www.constructionmanagermagazine.com/news/what-notre-dame-restoration-will-have-consider/ [accessed 25 May 2019]

Reuters (2019) 'France to open redesign of Notre-Dame's spire to international architects' [online]. Available at: <https://uk.reuters.com/article/uk-france-notredame-spire/france-to-open-redesign-of-notre-dames-spire-to-international-architects-idUKKCN1RT19B> [accessed 25 May 2019]

Baynes C, Sharman J, Osborne S, and Rahim Z (2019) 'Notre Dame fire: Parisians hold huge vigil at cathedral as monuments around the world light up in solidarity', *The Independent* [online], 17th April. Available at: www.independent.co.uk/news/world/europe/notre-dame-fire-live-cathedral-paris-damage-cause-france-latest-updates-a8871851.html [accessed 25 May 2019]

- **Further information as well as access to a photo library showing: Notre Dame Fire: What was lost and what was saved is provided via the above-mentioned source link as well as a timeline showing how the fire unfolded.**

GCR Staff (2019) 'International architects invited to design new spire for Notre Dame', *Global Construction Review* [online], 17 April. Available at: www.globalconstructionreview.com/news/international-architects-invited-design-new-spire/ [accessed 25 May 2019]

Ducan J, CBS This Morning (2019) '3D scans of Notre Dame could prove pivotal in its reconstruction', YouTube [video], 17 April. Available at: www.youtube.com/watch?v=sQmlxPVtOGk [accessed 25 May 2019] [3m 24s]

National Geographic (2015) 'Laser Scanning Reveals Cathedral's Mysteries', YouTube [video], 23 June.

Available at: https://www.youtube.com/watch?time_continue=12&v=jAi29udFMKw [accessed 25 May 2019] [4m 10s]

[Back to top](#)



Property and Construction Statistics

RICS Economy and Property Market Chart Book – Q2 2019

- Economy will struggle for momentum until Brexit is sorted

The impasse around Brexit continues to cloud the macro environment even though headline growth in the first quarter of the year proved more resilient than anticipated. Before drawing too much comfort from this, it is worth bearing in mind that a good slug of the uplift was related to stock building as fears heightened that the country might leave the EU without a deal at the end of March. More significantly, the data continues to draw attention to the unbalanced response of the economy to current events.

Uncertainty slows activity in commercial real estate – Figures from Property Data suggest that investment in the commercial real estate market slipped to the £10bn mark during Q1. This compares with more than £13bn in the same period of 2018 and an average of around £16.5bn in the subsequent three quarters.

The Q1 RICS Commercial Property Survey also reflected this more cautious tone. Although the headline numbers were generally fairly flat, this continues to mask significant divergences in feedback across sectors. Whilst industrials, in general, are eliciting positive feedback, the story in retail is predictably much more downbeat. And not surprisingly, the pain in the latter is particularly acute in secondary locations; results on expectations from the survey point to rents falling in this part of the commercial market by a further 7% over the next twelve months (see publication date).

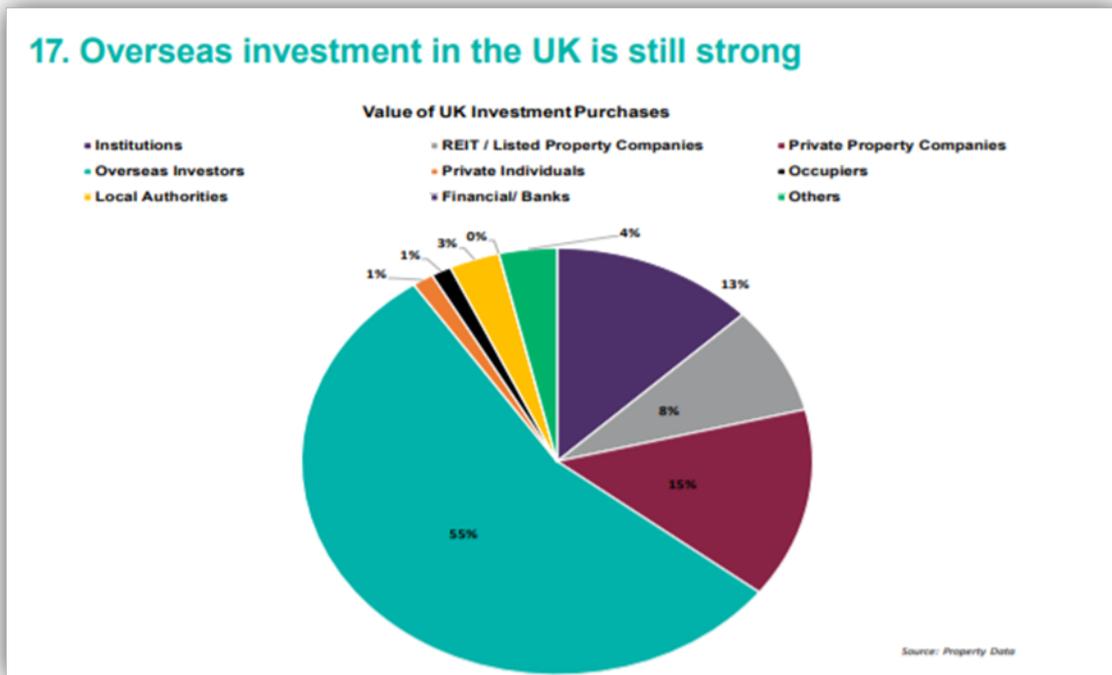
Construction workloads being led by housing – Workloads still appears to be growing according to the Q1 RICS Construction and Infrastructure Survey, but this is largely due to a positive trend in the residential sector. Developers have turned a little more cautious and are noting rising costs as a challenge, but nevertheless,

continue to see opportunities in the market given the commitment to address the housing crisis. The emphasis on trying to encourage the SMR sector continues with the recent launch of a new loan guarantee scheme.

Source: RICS (2019), Knowledge, RICS Market Surveys – *RICS UK Chart Book and Survey Market Updates, Q2 2019*, RICS, London [online]. Available at: www.rics.org/uk/news-insight/research/market-surveys/uk-chart-book/ [accessed 25 May 2019].

Chart 17 – Commercial Property Sector - Overseas investment in the UK is still strong

- Despite Brexit concerns, Property Data estimates that net investment into the UK by overseas investors reached more than £3 billion in Q1 2019, up from £1.1 billion in the previous quarter. Consequently, overseas investment made up more than half of the total value of investment purchases in Q1 (see Chart 17 below).

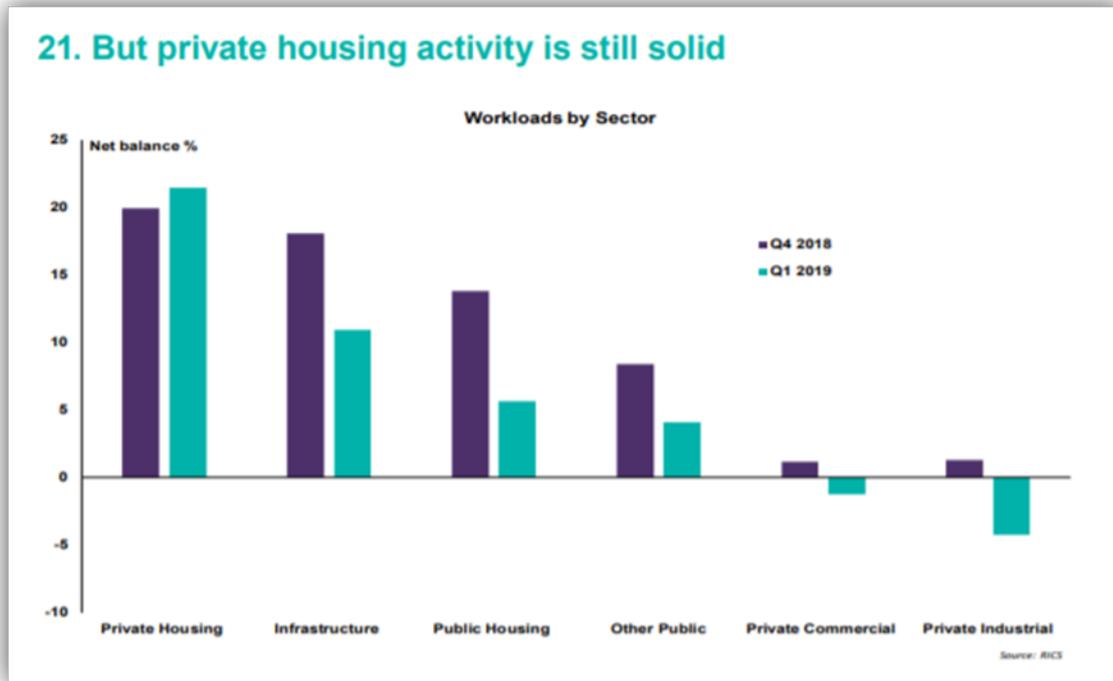


Source: RICS Economics Research: *RICS UK Economy and Property Market Chart Book* (Q2, 2019), page 10

Chart 21 – Construction sector – Private housing activity is still solid

- Still behind the headline figures, the RICS survey suggest that workloads across the private housing sector are continuing to rise, outstripping all other segments of the industry. Indeed, a new balance of +21% in the latest survey is close to the average of the past two years suggesting that activity remains solid in this area (see Chart 21 overleaf)

Chart 21 – Construction sector – Private housing activity is still solid



Source: RICS Economics Research: *RICS UK Economy and Property Market Chart Book* (Q2, 2019), 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 25 May 2019]

These include:

- **UK Residential Market Survey.** **Note: The latest survey, dated April 2019 (see below)**
- Global Commercial Property Monitors – leading indicators of conditions in commercial property occupier and investor markets around the world.
- **Analysis and discussion papers** – In-depth insights on specific markets, sectors and developments.
- Cyprus Property Price Indices – A quarterly price and rental index that tracks property and rental prices across all districts
- Hong Kong Residential Market Survey – a leading sentiment indicator of conditions in the Hong Kong residential sales and lettings markets.
- RICS/Ci Portuguese Housing Market Survey – a leading sentiment indicator of developments in the Portuguese residential sales and lettings markets.
- RICS/RAU Rural Land Market Survey and Land Prices – the leading survey on demand, supply and prices in the farmland market. The RICS/RAU Farmland Market Directory of Land Prices was launched by RICS's Rural Professional Group after the Farmland Market ceased publication.
- **UK Chart Book and Survey Market Updates** – A monthly snapshot of the UK economy, focusing on the construction, housing and commercial property sectors. **Note: For the latest (Q2 2019), please see above.**
- **UK Commercial Market Survey** – a leading indicator of developments in the UK commercial property occupier and investor markets.
- UK Construction and Infrastructure Survey – the leading sentiment indicator of the UK construction and infrastructure markets.

RICS (2019), Research, Market Surveys [online], London: RICS. Available at: www.rics.org/uk/news-insight/research/market-surveys/ [accessed 25 May 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 .

[Back to top](#)

Latest RICS Research/Market Surveys available - [UK Residential Market Survey \(2019\)](#)

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.

The April 2019 RICS UK Residential Survey results point to overall market trends remaining very similar to those reported in recent months, with headline indicators on demand, supply and prices all still stuck in negative territory. Brexit uncertainty and a lack of available stock to purchase remain the key constraints, meaning little change in momentum is anticipated in the near term. That said, expectations are at least slightly more positive at the twelve-month horizon.

April 2019: UK Residential Market Survey

Market sentiment little changed following Brexit extension

- Survey indicators on buyer enquiries and sales still negative while new listings continue to decline
- Conditions remain more challenging at higher price brackets
- Twelve-month expectations signal slight improvement in activity further out

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, April 2019 [online] and available @ www.rics.org/uk/news-insight/research/market-surveys/uk-residential-market-survey/ [accessed 25 May 2019]

RICS.org.uk www.rics.org/uk/ [accessed 25 May 2019]



<https://twitter.com/RICSNews> [accessed 25 May 2019]



www.facebook.com/ricssurveyors [accessed 25 May 2019]



www.linkedin.com/groups?gid=88902 [accessed 25 May 2019]

[Back to top](#)

Barbour API's *Economic & Construction Market Review*

- The *Economic and Construction Market Review* provides valuable insight and market intelligence to help forecast new business opportunities and driver marketing activity.

This monthly round up of construction market intelligence combines data on the UK construction industry trends and analysis with data on the economic climate from previous months. Barbour's Lead Economist Michael Dall compiles the monthly *Economics & Construction Review*, so you can rely on the most valuable, and up-to-date information each month.

Economic and Construction Market Review includes:

- UK Economic Trends – The latest GDP, unemployment and economic growth figures
- Construction Sector Performance – The latest construction industry figures including information from the Office for National Statistics, the best performing sectors and the levels of construction contracts from across the UK.

Further information and access to the review is available via

Barbour Index API, *Economic and Construction Market Review* [online]. Available at: www.barbour-abi.com/economic-and-construction-market-review/ [accessed 25 May 2019]

[Back to top](#)

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 25 May 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 25 May 2019].

[Back to top](#)

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 25 May 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 25 May 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.

[Back to top](#)

Construction industry highlights include:

Construction output in Great Britain: [March 2019](#)

Contents incl.

(i) Main points; (ii) Things you need to know about this release; (iii) Construction output in March 2019; (iv) Detailed growth rates; (v) Revisions; (vi) Sector spotlight: focus on private commercial new work; (vii) Links to related statistics; (viii) Other useful links; (ix) Quality and methodology; (x) Construction statistics engagement and development.

What’s in the bulletin?

- Construction output increased by 1.0% in Quarter 1 (Jan to Mar) 2019; this increase was driven by repair and maintenance output, which increased by 2.9%.
- The rise in repair and maintenance output in Quarter 1 2019 was driven by increases in both private housing repair and maintenance and non-housing repair and maintenance, which increased by 4.0% and 3.5% respectively.

- New work experienced no growth (0.0%) across Quarter 1 2019, as increases in infrastructure and public other new work of 5.6% and 3.3% respectively were offset by decreases in private commercial and housing new work of 4.7% and 1.2% respectively.

Office for National Statistics (2019), Construction Industry, *Construction output in Great Britain: March 2019* [online]. Available at: www.ons.gov.uk/businessindustryandtrade/constructionindustry [accessed 25 May 2019], www.ons.gov.uk/businessindustryandtrade/constructionindustry/datasets/outputintheconstructionindustry [accessed 25 May 2019], and www.ons.gov.uk/businessindustryandtrade/constructionindustry/bulletins/constructionoutputingreatbritain/march2019 [accessed 25 May 2019]

[Back to top](#)

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 July 2014 to March 2019, UK, and
- **Construction Statistics Annual Tables** – These tables cover a wide range of statistics that are currently available on the construction industry.

[Back to top](#)

Output in the Construction Industry incl.

Short-term economic indicators commentary: June 2018, and Construction Statistics Development Programme – [Work plan](#)

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

Office for National Statistics (ONS), 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 25 May 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 25 May 2019]. **N.B.** This item has been placed with **The National Archives** as the ONS website has now been updated.

[Back to top](#)

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 25 May 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 25 May 2019]

Office for National Statistics (ONS), Construction Statistics Articles [online]. Available at: www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/previousReleases [accessed 25 May 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 25 May 2019].

Office for National Statistics (ONS) website [online]. Further information is available at: www.ons.gov.uk/ons/index.html [accessed 25 May 2019]



<https://twitter.com/ONS> [accessed 25 May 2019],



www.facebook.com/ONS [accessed 25 May 2019],



www.linkedin.com/company/office-for-national-statistics [accessed 25 May 2019],

ONS, Browse by Theme [online] and available @ <http://www.ons.gov.uk/ons/browse-by-theme/index.html> [accessed 25 May 2019]. Please refer to

- 'Business and Energy' 
- 'Production Industries'  and
- 'Building and Construction' 

[Back to top](#)

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 25 May 2019]

[Back to top](#)

Health and Safety Executive (HSE) – Construction Statistics

The mission of the Health and Safety Executive (HSE) is to prevent death, injury and ill health in Great Britain's workplaces. Areas covered within the HSE Website incl.

- Openness
- Standards and performance
- Framework management standards
- Health and safety inspection visits
- Real people vide

The HSE's work covers a varied range of activities; from shaping and reviewing regulations, **producing research and statistics** and enforcing law.

For further information on **HSE's Construction Statistics** visit the following:

Source: Health and Safety Executive (HSE) website and select

- 'Statistics' 
- 'Industries'  and
- 'Construction' ,

that will take you to 'Construction Industry'.

HSE [online] and further information available at: www.hse.gov.uk/construction/index.htm [accessed 25 May 2019]

HSE, *About us* [online] and further information is available at: www.hse.gov.uk/aboutus/insidehse.htm [accessed 25 May 2019]. [Back to top](#)

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 25 May 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 25 May 2019]

&

House of Commons Library, Briefing Papers incl. [The Construction Industry: statistics and policy](#)

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

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

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

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

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

Rhodes C (2015), *Construction industry: statistics and policy*, House of Commons Library, Briefing Paper Number 01432, 6 October 2015 [online] and available at: <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN01432> [accessed 25 May 2019]

[Back to top](#)



e-Journal Review

RICS **Modus** Digital Magazine – May 2019: [The Coastal Issue](#)

- In this month's Modus we consider what happens when the irresistible force meets the immovable object, with an edition dedicated to the sea and the shore.

In their cover story, Modus investigate the impact that development can have on our coastlines. Marine geologists are becoming increasingly alarmed by the associated phenomenon of coastal erosion. This is due to both the building of every-higher sea walls to defend against rising sea levels, and the loss of sand, dunes and mangroves to development, which is making entire regions much more vulnerable to flood events. Modus examine some examples of this phenomenon at work and identify what must be done to ensure that the coastal developments of today do not leave behind a disastrous environmental legacy.

Also, this issue

- Tidal energy generation is the most reliable form of renewable energy, but major projects remain rare and attempts to build generation facilities in promising locations including the UK, have failed to gain financial and political backing. Modus asks how, when and why the tide might turn in favour of tidal energy generation, and what sorts of large- and smaller-scale tidal energy generation facilities might be constructed in the future.
- Ports are vital infrastructure assets for emerging economies, and who owns or runs a country's major ports is now a political question of foreign direct investment from initiatives such as China's Maritime Silk Road have on these economies? We consider the factors driving FDI into ports, how it may influence the economic development of the countries involved, and whether this influx of money is here to stay.
- Flooding is a fact of life, and the IPCC's recent Global Warming report suggests and it's only going to get worse in the years to come. With this in mind, we look at three case studies around the world, showing how different countries are tackling flooding through anti-flood architecture and materials, and how this thinking could be applied to other parts of the world.

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

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

Intelligence

- **What we can learn from ... / ...** using blockchain to make home ownership more affordable
- **Opinion /** Tim Oldman on the importance of employee-focused workspaces
- **Chartered territory /**Who's responsible for making sure new housing is socially inclusive?

Experience

- **Way to go /** Cadogan's Jane Henshaw MRICS on managing a 300-year-old estate
- **How to ... / ...** futureproof our workspaces, as told by those responsible for them
- **What if ... /** Building new homes to a minimum space standard is a good idea, isn't it?

This issues main features include:

- **Breaking the waves /** With a few notable exceptions, generating electricity from the motion of the sea has failed to catch on. Is the tide finally turning?
- **Port without authority /** Who owns a country's major ports is now a political question as much as an economic one. Is the investment worth the trade-off?
- **The coastal erosion conundrum /** What it comes to building on our coastlines, how do we balance development with defence?
- **Water world /** Profiling three projects that show how the built environment is providing solutions to a world in which flooding is a part of life

Royal Institution of Chartered Surveyors (RICS), Oliver Parsons, Editor of Modus, *Modus*, May 2019 – Modus: The Coastal Issue [online], RICS, Knowledge, Journals. Available at:

www.rics.org/uk/news-insight/publications/modus/ [accessed 25 May 2019]

Please also view:

RICS Modus – The Great Unknown Issue, and refer to the following article

Parson O (2018) 'Here come the trailblazers', *Modus* [online], November / December, pp28-32. Available at: www.rics.org/uk/news-insight/publications/modus/the-great-unknown-issue/ [accessed 25 May 2019]

N.B. One of our UCEM Apprentices, namely Adelle Rhule-Martin is interviewed about her apprenticeship journey. Article starts on page 28, picture of Adelle on p29 and quotes from her on p30.

RICS Modus – The Anniversary Issue - RICS celebrated its 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 25 May 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 25 May 2019]

[Back to top](#)

Latest issue of **Contractors World International** (Vol. 9, No 1) incl.

Contents incl.

- **United Kingdom: World famous landmark undergoes renovation**
- Finland: Dust suppression at challenging demolition site
- USA: Modified articulated trucks and scrapers
- Norway: Major milestone for large suspension bridge
- USA: No 1 choice at bridge elevation
- United Kingdom: Innovations from leading contractor
- United Kingdom: \$2bn city upgrade makes progress
- Australia: Virtual Reality Training
- Germany: Building Façades That Think
- Nigeria: Residential complex on the shoreline
- India: High-rise concrete pumping challenge

&

Potholes – Fighting a losing battle

- New spray injection patching service
- Bituchem repair innovations
- Speed and efficiency see velocity win
- Permanent cold asphalt pothole repair
- Recycled plastic for road repairs

UK: World famous landmark undergoes extensive renovation

The iconic Elizabeth Tower which houses the famous clock and Big Ben – the bell that chimes the times is undergoing extensive refurbishment.

Part of the Palace of Westminster (Houses of Parliament), it is the first stage of a multi-billion-dollar total refurbishment which will require members of Parliament vacating the building for several years.

Unfortunately for tourists, the most photographed landmark in the world is hidden from view behind a curtain of scaffolding to the full height. Only one face of the clock has been left visible and, for the safety of workers, the bell has been silenced during the renovation period.

As the Tower is 96 metres tall, scaffolding is needed to enable workers to reach high levels safely. Scaffolding will be dismantled as the work is completed from the top, and at least one clock face will always be on show.

As a Grade 1 listed building within a UNESCO World Heritage site, the 160-year-old Tower is subject to listed building consent. This programme of works has been carefully planned in consultation with Historic England.

The works involve:

- Repair problems identified with the Elizabeth Tower and the Great Clock, which cannot be rectified whilst the clock is in action.
- Conserve significant elements of the Tower, as designed by architects Charles Barry and Augustus Wellby Pugin.
- Repair and redecorate the interior, renew the building services and carry out work to improve health and safety and fire prevention.
- Increase energy efficiency to reduce the Tower's environmental impact.

For further information, visit

Contractors World International (2019), 'UK: World famous landmark undergoes extensive renovation', *Contractors World International* Volume 9, No 1, Page 30 [online], USL StructureCare. Further information available at: <http://cwmags.com/> [accessed 25 May 2019]

Contractors World magazines (incl. **Contractors World International** and **Contractors World UK & Ireland** are the leading international digital publications. Delivering site reports, equipment reviews and comments of interest on the construction, mining, quarrying and related industries [online]. Available at: <http://cwmags.com/> [accessed 25 May 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).

[Back to top](#)

IWFM Digital Magazine – **facilitate** May 2019: the latest issue

facilitate 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.

The latest workplace and facilities management news, covering professional development, the outsourced service sector, market analysis, legislation and key business reports.

In this latest issue,

Facilitate Industry News:

- Survey calls for an end to workplace stigma surrounding menstruation
- YouGov study shows office design is a key asset for business success
- Manchester saw 'greatest take-up off office space' in 2018
- Women work more productively in warmer offices
- London is the second most expensive market for office fit-outs

Business News:

- Leicester Tigers appoint Levy UK at Welford Road Stadium
- Mitie wins £150m IFM deal extension with South London NHS trust
- Andron FM takes three-year deal with Cirrus Logic in Edinburgh
- Levy UK scores with Chelsea Football Club

- Bennett Hay takes three-year deal with British Land

News analysis:

- IWFM Conference 2019: a broader perspective
- Outsourced FM workers' fight for recognition is 'not over'
- Noise at work is impairing health and productivity, new survey reveals
- New financial year: Tax hikes and spending cuts
- Government set to put social value 'at the heart' of future service procurement

Source: Institute of Workplace and Facilities Management (IWFM), formerly BIFM (2019), *facilitate*, News, 7th and 28th May 2019, facilitatemagazine.com [online]. Further information available at: www.facilitatemagazine.com/news/ [accessed 29 May 2019], London: Redactive Media Group.

[Back to top](#)

The Heritage Alliance's latest **'Heritage Update' E-Bulletin** – 26 April 2019

Heritage Update is the Heritage Alliance's voice to, and for, the sector. The popular fortnightly e-bulletin offers policy updates, news, a consultation round-up, events / course listings and job vacancies.

The latest issue (26 April 2019) that can be accessed and downloaded (for personal use as reference) from the above-mentioned web link and contains further information on the following:

Heritage Update E-Bulletin

Headlines:

- RIBA joins the Heritage Alliance
- Alliance Members – Send Us Your Beautiful Heritage Photos!
- Heritage Legal Advice and Training Session with BWB LLP – 22 May
- **April HeritageChat: 'How can we improve the legacies of archaeological community engagement in place making?' – Heritage Chat Summary Now Online (1)**
- Sponsor Our Heritage and The Creative Industries Report
- Giving to Heritage

News round-up:

- Arts contribute more to UK economy than agriculture
- **The Environmental Audit Committee's pre-legislative scrutiny of the draft Environment (Governance and Principles) Bill has been published (2)**
- **UK offers help in restoring Notre Dame after the devastating fire (3)**
- **EU Ministers of Culture stressed the importance of the cultural and creative sectors (4)**
- Ecclesiastical launches £1m fund for charities
- Your chance to improve the Listed Places of Workshop Grant Scheme website
- Two more rare cultural artefact at risk of export
- **European Council adopts new copyright directive (see further information below)**
- **UK local authority culture spend 'smallest in Europe' (5)**
- Major museums to compare visitor experiences with other leisure attractions
- Make the case for art and culture
- **Government launches £3 million scheme to regenerate village halls (6)**

Others news

- Worthing is named Pier of the Year 2019
- CLA responds to Natural England's decision to revoke licences for bird control

- Newly launched partnership will support over 250 heritage organisations in developing financial skills and knowledge.
- National Lottery Project Grants: Guidance update
- Another historic building hit by fire: the former Church of St John the Evangelist in Blackburn damaged in huge blaze.
- Theatre architecture recognised in RIBA Regional Awards shortlists
- New hope for Norwich – Public inquiry for 20 storey tower

Have your say - Open consultations (incl. Historic England – Heritage Crime Prevention & Risk Assessment Guidance: Survey)

and more.

Source: Heritage Update e-Bulletin [online], Issue **No 392**, 26 April 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 May 2019]

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



www.linkedin.com/grp/home?gid=4898001 [accessed 25 May 2019]

[Back to top](#)

April HeritageChat: ‘How can we improve the legacies of archaeological community engagement in place making?’ – Heritage Chat Summary Now Online

The April **#HeritageChat** was led by the CifA Voluntary and Community Special Interest Group and explored how the legacies of archaeological community engagement in place making can be improved. Discussion focused on what exactly is meant by ‘place making’ in this context and what it means to communities in practice. Also explored was the role archaeology can play in influencing the design of new places before construction, and particularly, in consideration of health and well-being. Catch up on all the discussions **via the source link provided below**.

The topic was explored in further details at a **session** of the CifA 2019 conference where comments made during the chat were also discussed.

The next Heritage Chat will be held on the 16 May 2019 between 1 and 2pm – follow **@HeritageChat** to take part. The Heritage Alliance are always keen to hear from people who have a topic for discussion or who would like to play a part in leading one of these monthly Twitter chats. Please contact Caroline Peach, heritage2020@theheritagealliance.org.uk if you’d like to take part.

[Click here](#) for further information on the monthly Heritage Chat.

Related Links:

Heritage 2020 (2019) ‘How can we improve the legacies of archaeological community engagement in place making?’- April 2019 #HeritageChat’, Heritage 2020 [online]. Available at: www.heritage2020.net/how-can-we-improve-the-legacies-of-archaeological-community-engagement-in-place-making-april-2019-heritagechat/ [accessed 25 May 2019]

CifA – Chartered Institute for Archaeologists (2019) ‘CifA 2019 Archaeology: values, benefits and legacies’, CifA [online]. Available at: www.archaeologists.net/events/cifa-2019-archaeology-values-benefits-and-legacies-1548758712 [accessed 25 May 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 392**, 26 April 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 May 2019]

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

[Back to top](#)

The Environmental Audit Committee’s pre-legislative scrutiny of the draft Environment (Governance and Principles) Bill has been published

The Environmental Audit Committee’s pre-legislative scrutiny of the draft Environment (Governance and Principles) Bill identifies serious concerns with proposed legislation to protect the environment if the UK leaves the European Union. The report describes the bill as lacking coherence, with many Government departments. The report describes the bill as lacking coherence, with many Government department exempted from their environmental responsibilities.

Read the report conclusions and recommendations

Read the report summary

Read the full report

Areas where MPs consider the Bill to be deficient:

- Environmental principles which guide European Union legislation and policy have been “severely downgraded”.
- There is no Government agency with responsibility to enforce climate change mitigation measures. MPs believe enforcement of climate change mitigation has been “purposefully excluded” from the scope of the Office of Environmental Protection (OEP)
- Lack of environmental accountability for action by Government departments

MPs were concerned they had only seen sections on principles and governance and were unable to assess the full implications of the Bill for the environment.

See The Heritage Alliance’s **Scrutiny of the draft Environment (Principles and Governance) Bill inquiry** and the **Delivering the 25-Year Environment Plan for the historic and natural environments: The Environment Bill paper** via the Heritage Update: **the online edition** link provided below.

Related Links:

www.parliament.uk (2019) ‘Scrutiny of the Draft environment (Principle and Governance) Bill, Conclusions and recommendations’ [Parliament home page > Parliamentary business > Publications and records > Committee Publications > All Select Committee Publications > Commons Select Committees > Environmental Audit > Environmental Audit] Parliament [online]. Available at: <https://publications.parliament.uk/pa/cm201719/cmselect/cmenvaud/1951/195111.htm> [accessed 25 May 2019]

www.parliament.uk (2019) ‘Scrutiny of the Draft environment (Principle and Governance) Bill, Summary’ [Parliament home page > Parliamentary business > Publications and records > Committee Publications > All Select Committee Publications > Commons Select Committees > Environmental Audit] Parliament [online]. Available at: <https://publications.parliament.uk/pa/cm201719/cmselect/cmenvaud/1951/195103.htm> [accessed 25 May 2019]

www.parliament.uk (2019) ‘Scrutiny of the Draft environment (Principle and Governance) Bill, Contents’ [Parliament home page > Parliamentary business > Publications and records > Committee Publications > All Select Committee Publications > Commons Select Committees > Environmental Audit > Environmental Audit] Parliament [online]. Available at: <https://publications.parliament.uk/pa/cm201719/cmselect/cmenvaud/1951/195102.htm> [accessed 25 May 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 392**, 26 April 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 May 2019]

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

Notre-Dame fire

UK offers help in restoring Notre Dame after the devastating fire

The moving images of Notre-Dame on fire have made us all appreciate the importance of buildings as symbols, of the cultural heritage in general, and of the vital need to protect that heritage. As the **British Council pointed out**, the UK can and should build on the work it does around the world to help protect artistic fabric of supreme importance to humanity.

President Macron has announced that the cathedral will be restored within five years, and hundreds of millions of euros have already been pledged by philanthropists and ordinary people from around the world.

The Cultural Protection Fund, administered by the British Council in partnership with the UK Government's Department for Culture, Media and Sport, **seeks to use the skills the UK has to help preserve and restore building and artefacts threatened by destruction, war, and neglect**, often in countries that do not have the resources needed to do it themselves. France has copied the same model and is able to draw upon a wealth of expertise both within France and elsewhere. French Prime Minister Edouard Philippe has announced an international architecture competition to **rebuild the spire**.

Historic Houses (HH) has already **announced** that British oaks from some of the UK's most famous estates could contribute towards the rebuilding of Notre Dame cathedral, following an offer from members of HH.

France will need an army of specialists to rebuild Notre Dame Cathedral and the UK is on standby to send over architects and archaeologists, conservators and craftspeople. Historic England is among heritage bodies offering help, based on lessons learned from fires in UK historic buildings, including Windsor Castle, Clendon Park and York Minster.

Related Links:

British Council (2019) 'A monument to the end of time', British Council [online], April. Available at: www.britishcouncil.org/research-policy-insight/insight-articles/monument-end-time [accessed 9 May 2019]

Henley J (2019) 'France announces contest to redesign Notre Dame spire', The Guardian [online], 17 April. Available at: www.theguardian.com/global/2019/apr/17/france-announces-architecture-competition-rebuild-notre-dames-spire [accessed 9 May 2019]

Historic Houses (2019) 'Britain's great estates pledge trees to help rebuild Notre Dame', Historic Houses [online], 17 April. Available at: www.historichouses.org/resources/latest-news/help-rebuild-notre-dame.html [accessed 9 May 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 392**, 26 April 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 May 2019]

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

EU Ministers of Culture stressed the importance of the cultural and creative sectors

The **informal meeting of the EU Ministers of Culture** took place on 16 April 2019, at the Palace of Parliament, in Bucharest. The meeting addressed two topics: Financing and innovation for the culture and creative sectors and Learning from the past, building our future: Europe's cultural heritage in the spotlight.

In the first working session, devoted to Financing and innovation, ministers stressed the need to ensure a functional ecosystem where the cultural and creative sectors develop solid businesses and unfold their growth potential.

"One of the priorities of the Romanian Presidency is to create new opportunities for Europe's cultural and creative sectors. The meeting in Bucharest highlighted that the joint efforts of the Member States and the European institutions should be stepped up in order to strengthen the competitive market for cultural creators and

professionals and generate new business models and entrepreneurial initiatives that will foster the development of this sector and will attract wide audiences” – Valer Daniel Breaz, Minister of Culture and National Identity.

The second part of the debate focused on cultural heritage, Minister expressed their sympathy and solidarity with the French people, following the Notre-Dame de Paris tragedy that affected a landmark of Europe’s cultural heritage.

The working session capitalised on the legacy and the dynamics generated by the European Year of Cultural heritage 2018. With more than 18,000 events, reaching 10 million people, this initiative was an unquestionable success. Ministers recognised that the appropriate multi-stakeholder governance framework, the engagement of different parts of our societies and the cross-border cooperation are relevant to safeguard and promote Europe’s cultural heritage.

The large majority of the delegations endorsed the **Declaration on the Role of culture in building Europe’s future** that highlighted the need to take further steps to place culture higher than ever before on the EU political agenda.

Source: Heritage Update e-Bulletin [online], Issue **No 392**, 26 April 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 May 2019]

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

[Back to top](#)

UK local authority culture spend ‘smallest in Europe’

New analysis of European data finds growth in culture spending across Europe is driven by the countries in the East of the continent, which doubled their culture spend.

Local government funding for culture is a lower budget priority in the UK than in almost any other country in Europe, new data suggests.

A study of recently-released European Union (EU) data shows that total local authority spending in the UK constituted just 0.1% of the country’s GDP in 2017.

By comparison, each of the 30 other European countries analysed – apart from Ireland, Greece and Cyprus – recorded higher proportions, up to a high of 0.7% in Latvia.

The data also reveals the UK was one of the few countries in which total local government spending on culture was outstripped by central government funding.

The analysis was conducted by the Budapest Observatory, which provides information about how culture is made and developed in “east-central European countries”.

It comes months after the EU announced plans to double its culture budget for its next funding round – an increase of €2.8bn for the period from 2021 to 2027.

Related Link:

The Budapest Observatory (2019) ‘Publication Funding of Culture in Europe, 2004-2017’ [online]. Available at: www.budobs.org/ [accessed 25 May 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 392**, 26 April 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 May 2019]

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

[Back to top](#)

Government launches £3 million scheme to regenerate village halls

A £3 million fund to improve village halls and better connect rural communities across the country was launched on the 5th April by the government. With more than 10,000 village halls across the country, 'these spaces provide vital hubs for communities to connect collaborate and celebrate'.

The fund will be administered by action with Communities in Rural England (ACRE) on behalf of DEFRA with support from the ACRE Network.

The scheme will fund up to 20% of eligible costs towards refurbishment and alteration of buildings, from improvement works on existing facilities through to new meeting rooms. There is a minimum grant of £10,000 and maximum grant of £75,000 payable.

Listed places of worship can already apply to the government LPS scheme for a guaranteed 20% grant (to give them VAT relief), and this scheme may provide an opportunity for unlisted places of worship which meet the criteria to apply to the government for a similar amount.

Related Link:

ACRE – Action with communities in rural England (n.d.) 'Village Hall Improvement Grant Fund' [online]. Available at: <http://acre.org.uk/our-work/village-hall-improvement-grant%20fund> [accessed 25 May 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 392**, 26 April 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 May 2019]

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

[Back to top](#)

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: <https://openpraxis.org/index.php/OpenPraxis/index> [accessed 25 May 2019] and

Open Praxis Archives [online]. Further information available at <https://openpraxis.org/index.php/OpenPraxis/issue/archive> [accessed 25 May 2019]



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Open Praxis, Volume 11, No. 1, January - March (2019)

Papers (available in full-text versions) include the following:

Editorial -

Title: **Brief report on Open Praxis figures and data (2018)**

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: This brief introduction in the first *Open Praxis* issue in 2019 reports on some information and data about the *Open Praxis* development in the period from January 2013 to December 2018, with a special focus on volume 10, published in 2018. After the brief report, what follows is an introduction to the first *Open Praxis* issue in volume 11, which includes seven research papers.

Keywords: open education; distance education; higher education; adult learner; transnational; dropout; OER; open practice; ESL

Reference: Gil-Jaurena I (2019) 'Brief report on *Open Praxis* figures and data (2018)', *Open Praxis*, 11(1): pp1-4. doi: <http://dx.doi.org/10.5944/openpraxis.11.1.952> [accessed 25 May 2019]

Research articles -

Title: **Challenges Faced by Adult Learners in Online Distance Education: A Literature Review**

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: Although online distance education provides adult learners with an opportunity for life-long learning, there are still factors challenging them to engage in educational processes. The purpose of this study is to explore the challenges faced by adult learners in online distance education through the analysis of the relevant literature. The articles (N=36) published in the key journals in the fields of open and distance education, instructional technology, and adult education were reviewed and analysed through constant comparative analysis in the current study. The findings reveal that adult learners have challenges related to internal, external, and program-related factors indicating the interrelated nature of these challenges. The findings also show that the challenges experienced by adult learners vary depending on their age, gender, knowledge and skills as well as the context in which they study. The findings of this study, which has an exploratory nature, have several implications for distance education stakeholders such as administrators, instructors, instructional designers, and policy makers.

Keywords: Distance education; adult learners; challenges.

Reference: Kara M, Erdoğan F, Kokoç M, and Cagiltay, K. (2019). Challenges Faced by Adult Learners in Online Distance Education: A Literature Review. *Open Praxis*, 11(1), pp5-22.

doi: <http://dx.doi.org/10.5944/openpraxis.11.1.929> [accessed 25 May 2019]

Title: **The Complexity of Transnational Distance Students: A Review of the Literature**

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: Transnational education is a rapidly evolving and constantly changing field. The internet has enabled virtually global access to distance education opportunities, however transnational distance students in particular have often been miscategorised, oversimplified, or overlooked in prior research. This literature review synthesizes research and publications over a ten-year period focusing on the emerging phenomenon of transnational distance students. Contrary to the allure of flexible, any time, any place learning often ascribed to distance education, diverse and complex situations are highlighted that paint a more nuanced picture of student circumstances and motivations, counterintuitive and underrepresented conditions that may influence students in their decisions to enrol in transnational distance education programs.

Keywords: transnational distance students; transnational education; borderless higher education; globalisation; literature review

Reference: Stewart W (2019) 'The Complexity of Transnational Distance Students: A Review of the Literature'. *Open Praxis*, 11(1), pp23-39.

doi: <http://dx.doi.org/10.5944/openpraxis.11.1.923> [accessed 25 May 2019]

Title: Dropout patterns and cultural context in online networked learning spaces

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: Dropout is a major concern in networked learning practices, however, little is known about the issue within the perspective of cultural contexts. On this basis, cultural context and dropout patterns were examined through a mixed-methods approach in which social network analysis and two-way between-group comparisons (culture vs. dropout) were conducted. The samples comprised 179 MOOC learners who were active in a networked extension of the Introduction to Open Education MOOC (#openEDMOOC). The dependent variables of interest were centrality metrics, whereas the independent variables were dropout (i.e., yes-no) and cultural contexts (i.e., high-low). The findings of the social network analysis suggested that non-dropout learners hold central positions in the network. Furthermore, learners from high cultural contexts tend to drop out, whereas those from low contexts tend not to drop out.

Keywords: Dropout; cultural context; massive open online courses; MOOCs; online networked learning

Reference: Bozkurt A, and Akbulut Y (2019) 'Dropout patterns and cultural context in online networked learning spaces'. *Open Praxis*, 11(1), pp41-54.

doi: <http://dx.doi.org/10.5944/openpraxis.11.1.940> [accessed 25 May 2019]

Title: Open Practices in Public Higher Education in Portugal: faculty perspectives

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: In recent years, the Open Educational Resources (OER) and Open Access (OA) movements have been essential in creating opportunities in all scholarly activities, within the context of higher education. The main purposes of this research was to understand how perceptions and practices of faculty towards OER are related to their perceptions and practices towards OA. It is an exploratory and descriptive study, with a mixed methods approach, undertaken in Portugal. Results indicate that, although faculty already show some degree of knowledge and use of OER and OA in their teaching and research practices, there is still a general lack of knowledge in both fields. However, the convergence of perceptions regarding both fields provide evidence on the possibility of a common approach to both fields in faculty's educational practices, with the purpose of opening up their educational and scientific resources, thus reinforcing the principles of transparency, collaboration and openness to knowledge.

Keywords: Open Educational Resources; Open Access; Open Education; Open Educational Practices; Scholarship

Reference: Cardoso, P., Morgado, L., & Teixeira, A. (2019). Open Practices in Public Higher Education in Portugal: faculty perspectives. *Open Praxis*, 11(1), pp55-70.

doi: <http://dx.doi.org/10.5944/openpraxis.11.1.823> [accessed 25 May 2019]

Title: "I find the whole enterprise daunting": Staff understanding of Open Education initiatives within a UK university

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: "Open" initiatives, which focus on increasing access to education, resources, and research, are often practised by individuals rather than universities. However, universities must now produce openly accessible research to comply with research funding and assessment requirements. To encourage staff participation, universities need to understand what participation barriers their staff face.

67 University of the West of England staff were surveyed about how they understood and participated in open initiatives. Four staff gave qualitative interviews about their experiences. This data was analysed to find correlates for participation and to identify participation barriers. Participants valued open initiatives and

supported their underlying goal of increased public access. Staff faced many entry barriers, especially around resources maintenance, copyright, and permissions. Universities could reduce these issues by emphasising how open initiatives allow staff to save time and to avoid reduplicating resources, and by creating unified “open policies” that make staff permissions and restrictions clearer.

Keywords: OER; open access; higher education; faculty; open policy

Reference: Harold S, and Rolfe V (2019) ‘ “I find the whole enterprise daunting”: Staff understanding of Open Education initiatives within a UK university’. *Open Praxis*, 11(1), pp71-83.

doi: <http://dx.doi.org/10.5944/openpraxis.11.1.918> [accessed 25 May 2019]

Title: **But What Do The Students Think: Results of the CUNY Cross-Campus Zero-Textbook Cost Student Survey**

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: The results of the first cross-campus survey of student opinions on Zero Textbook Cost (ZTC) courses are in: City University of New York (CUNY) students like their ZTC courses as well as ways to improve the design and delivery of Zero Textbook Cost courses to make them more beneficial for student learning.

Keywords: OER; textbooks; student opinions.

Reference: Brandle S, Katz S, [et al.] (2019) ‘But What Do The Students Think: Results of the CUNY Cross-Campus Zero-Textbook Cost Student Survey’. *Open Praxis*, 11(1), pp85-101.

doi: <http://dx.doi.org/10.5944/openpraxis.11.1.932> [accessed 25 May 2019]

Title: **Self-study with the Educational Technology Tell Me More: What EFL Learners do**

ISSN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: This study investigated 350 English as a foreign language (EFL) undergraduate students’ use of Tell Me More (TMM), a language learning technology, for self-study in a university in the south of Thailand. Two questions guided the study: 1) What were learners’ self-study practices with the TMM program? 2) How did learners’ self-study practices enhance or undermine the purpose of using the TMM program? Self-report questionnaire with subscales from Students Approaches to Learning and a semi-structured focused group interview were used to investigate the participants’ practices, effort and persistence on the TMM. The findings indicated that the learners multitasked to compensate for the lack of support from instructors and for assessment purposes, sometimes left the program on to count the time. The findings on the time of use suggested that self-study practices do not depend only on learners’ attitude or features of the learning environment but also goals set by instructors. Additionally, the findings showed that learners made moderate effort of use and were inconsistent in their self-study practices. The findings shed new light on what accounts for the effective use of educational technologies and how practices could be improved. This study would guide developers of online learning curriculums and educators on learning goals and assessment types to be incorporated in online self-study programs.

Keywords: Tell Me More; Online Learning; Learner Autonomy; Learners’ practices and Computer Assisted Language Learning

Reference: Pete J, Mulder F, Oliveira Neto J, and Omollo K (2018) ‘Differentiation in Access to, and the Use and Sharing of (Open) Educational Resources among Students and Lecturers at Technical and Comprehensive Ghanaian Universities’, *Open Praxis*, 10(4), pp405-421. doi:

<http://dx.doi.org/10.5944/openpraxis.10.4.917> [accessed 25 May 2019]

Top searching tips from Lucy the Librarian – Whilst you are reading *Open Praxis* journal articles do take time to familiarise yourself with the further supporting services and resources online. You will note (down the right-hand side) that there are ‘Journal Content’ search facilities, a Twitter feed highlighting the latest news and views, and within articles there is an ‘Article Tools’ section that include ‘How to Cite Item’ and ‘**Finding References**’ that provides a tool where you can search for additional articles written by the same author or subject area within ‘Google Scholar’ &/or ‘Windows Live Academic’. [Back to top](#)

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 25 May 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 25 May 2019]

Most downloaded articles (as of 25 May 2019) incl.

1. Predicting Dropout Student: An Application of Data Mining Methods in an Online Education Program by Yukselturk E [et al.]
2. Cross-Cultural Communication and Collaboration: Case of an International e-Learning Project by Toprak E and Genc-Kumtepe E
3. Differences Between Regular and Distance Education in a Teacher's Training Program by Zacharias G and Yiannis G
4. Student-Centred outcomes of an E-Learning Course on Public Health in Hanoi and New York by Tran B X, Nguyen Q L T [et al.]
5. Distance Education for People With Visual Impairments by Liakou M and Manousou E
6. The Development of Distance Education Systems in Turkey, the Russian Federation and Saudi Arabia by Zawacki-Richter O [et al.]
7. Transactional Distance and Autonomy in a Distance Learning Environment by Vasiloudis G [et al.]
8. Exploring the Factors Associated with MOOC Engagement, Retention and the Wider Benefits for Learners by Petronzi D and Hadi M
9. Aesthetic Literacy: Observable Phenomena and Pedagogical Applications for Mobile LifeLong Learning (MLLL) by Gallagher M S and Ihanainen P
10. Learners on the Periphery: Lurkers as Invisible Learners by Singh A B L and Koutropoulos A

Access to these articles are available within the above-mentioned web-link.

[Back to top](#)

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://olj.onlinelearningconsortium.org/index.php/olj> [accessed 25 May 2019]

Papers in this latest issue of *Online Learning Journal* incl.

This issue of OLJ presents 13 articles researching Massive Open Online Courses (MOOCs), leadership perspective, student engagement, academic integrity, pedagogy, and support. These papers advance our understanding of online learning with insights from a broad array of national and international investigators using quantitative, qualitative, and mixed methods approaches to inquiry.

The Online Learning Consortium's premier journal dedicated to the development and dissemination of new knowledge at the intersection of pedagogy, emerging technology, policy, and practice in online environments.

Table of Contents

Introduction

- Shea P (2019) '**Introduction to Online Learning Volume 23, Issue 1**', *Online Learning* [online], 23(1), March 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1965> [accessed 25 May 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i1.1965> [accessed 25 May 2019].

- Introduction to the Special Issue [S.I.]: Introduction to Online Learning Volume 23, Issue 1

Cultural and International Perspectives

- Sadykova G, Meskill C (2019) '**Interculturality in Online Learning: Instructor and Student Accommodations**', *Online Learning* [online], 23(1), March 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1418> [[accessed 25 May 2019]]. doi: <http://dx.doi.org/10.24059/olj.v23i1.1418> [accessed 25 May 2019].

- As more distance education courses broaden their reach across borders, the chances of online classes being multicultural are high. This means that more often students may find themselves in courses designed for and by a host culture that differs from their own regarding its approach to teaching and learning. Compounding the difficulties inherent in a novel cultural environment and its unfamiliar forms of academic discourse are challenges represented by the medium itself. This year-long case study examines the experiences and reflections of a Chinese graduate student and her U.S. instructor; specifically, the accommodations both made to mediate differences and mitigate these challenges. Analyses suggest that when both parties take differences into account and exercise thoughtful accommodations relative to both the challenges of the online medium and language socialization, positive learning experiences can result.

Keywords: interculturality, online teaching and learning, instructor-student interaction, international students, academic discourse.

Empirical Studies

- Salvo, S G, Welch, B, Shelton K (2019) '**African American Males Learning Online: Promoting Academic Achievement in Higher Education**', *Online Learning* [online], 23(1), March 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1390> [accessed 25 May 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i1.1390> [accessed 25 May 2019].

- Online education is expanding within higher education. However, attrition rates for African American males enrolled in higher education in general, and in online courses specifically, is on the rise. Because the future of our nation depends on how well our education institutions develop, nurture, and deploy talent, an investigation was conducted to identify factors that promoted online course completion among African American male undergraduate students. Ten males who successfully completed online courses were interviewed, and significant themes were identified. Factors that contributed to online course completion were financial

assistance, prior academic achievement, previous information technology (IT) training, continuous academic enrolment, student selection of topics perceived as uncomplicated and less demanding or familiar due to sufficient prior knowledge, use of handheld digital devices, and a non-prejudicial learning environment. Based on these findings, recommendations are made that include strategies policymakers and educationists can implement to promote academic achievement and degree attainment among African American males in higher education.

Keywords: distance learning, distance education, online learning, online education, African American students, black students, undergraduate students, male students, university students, best practices, contributing factors, academic achievement.

- Chen Y, Lei J, and Cheng J (2019) '**What if online students take on the responsibility: Students' cognitive presence and peer facilitation techniques**', *Online Learning* [online], 23(1), March 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1348> [accessed 25 May 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i1.1348> [accessed 25 May 2019].

- The purpose of this study was to investigate: (a) the characteristics of online students' cognitive presence in a peer-facilitated discussion environment, and (b) the peer facilitation techniques that enhance cognitive presence development. In this study, we examined 738 discussion messages. Analytic methods included both qualitative and quantitative content analysis. The findings revealed that although cognitive presence was detected in most discussion messages, they aggregated at a lower level. The involvement of peer facilitators was found to correlate with students' higher-level cognitive presence. In addition, we found that types of initiating questions asked by peer facilitators positively affected the level of cognitive presence. We also explored the facilitation techniques used by peer facilitators that aim to promote students' cognitive presence.

Keywords: Cognitive presence, peer facilitation, online instruction, discussion.

- Dempsey, P, Zhang J (2019) '**Re-examining the Construct Validity and Causal Relationships of Teaching, Cognitive and Social Presence in Community of Inquiry Framework**', *Online Learning* [online], 23(1), March 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1419> [accessed 25 May 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i1.1419> [accessed 25 May 2019].

- Despite the prevalence of research on the community of inquiry framework and its associated measurement instrument, more research is needed to re-evaluate the factor structure, study the effects of covariates or measurement invariance, and explore the relationship amongst the three presences. Results of this study indicated that (a) teaching, social, and cognitive presence are each multidimensional and higher-order constructs; (b) measurement invariance was fully achieved for gender and partially for age, ethnicity, discipline, and online experience; (c) structural relationships of the three main constructs – teaching presence, social presence, and cognitive presence – suggested potential psychometric adjustments. The teaching presence construct in particular should be reconstructed to appropriately reflect and measure the construct as conceptually defined – as a distribution of teaching responsibility and authority – as opposed to how it is currently operationalised in the community of inquiry instrument – as a centralisation of responsibility and authority with the instructor.

Keywords: community of inquiry, structural equation modelling, online education.

- Blau G [et al.] '**Exploring the relationship of background, technology and motivation variables to business school transfer intent for two mixed course format business undergraduate samples**'. *Online Learning* [online], 23(1), March 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1416> [accessed 25 May 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i1.1416> [accessed 25 May 2019].

- Business students are increasingly taking online courses to supplement their more traditional face-to-face (F2F) course-delivered education. This study explored the relationship of background, course or technology, and motivation variables to business school transfer intent for a mixed course delivery sample of undergraduate business students taking online classes. Two separate samples of students taking both online and F2F courses i.e., mixed course delivery format, filled out an online survey in the fall 2016 and spring 2017 semesters. Intent to transfer business schools was lower for both samples. Results showed that being male, perceived favourability of online courses, and lower institutional commitment were significant correlates of intent to transfer across both samples. This outcome variable, intent to transfer, should be added to the research agenda for ongoing efforts across all universities and colleges when testing the impact of online education.

Keywords: intent to transfer, online courses, mixed course delivery format, institutional commitment.

- Change B (2019) '**Reflection in Learning**'. *Online Learning* [online], 23(1), March 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1447> [accessed 25 May 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i1.1447> [accessed 25 May 2019].

- This study explored the impact of reflection on learning in an online learning environment. Twenty-five students from four online courses participated in this research project. Reflection was purposefully designed and embedded in various assignments. Data were mainly collected from interviews and students' different types of reflections. The inductive content analysis method was employed to analyse data. Five themes were generalized in terms of how reflection impacts learning: Increasing the depth of knowledge, identifying the areas which are missing or deficient, personalising and contextualizing knowledge, providing comparative references in learning, and helping learners build structural connections in knowledge and social connections among learners. This study provides foundational ideas for designing reflective activities to promote students' learning in an online learning environment.

Keywords: Reflection; online learning; structure of knowledge.

- Pugh C (2019) '**Self-Determination: Motivational Profiles of Bachelor's Degree Seeking Students at an Online, For-Profit University**', *Online Learning*, [S.l.] 23(1), March 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1422> [accessed 25 May 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i1.1422> [accessed 25 April 2019].

- Grounded in the self-determination theory, this exploratory quantitative study investigates motivational profiles of bachelor's degree seeking students at online, for-profit university. Cluster analysis revealed two distinct motivational profiles (internally and externally regulated) of 158 students enrolled in a bachelor's degree program. The significant differences between the two profiles offers support for the multidimensional nature of motivation as argued by self-determination theory. A chi-square test of independence revealed a significant association between motivational profile membership and gender. No associations were found between motivational profile membership and age. The results offer insights into the motivations of bachelor's degree seeking students attending an online, for-profit university. Over two-thirds of the students in this study exhibited high external forms of motivation. It is recommended practitioners employ methods to increase autonomous forms of motivation in the online, for-profit educational setting. Understanding student motivations to graduate may help administrators, curriculum designers, and instructors develop focused interventions and best practices that could be used to increase graduation rates.

Keywords: self-determination theory, motivational profiles, academic motivation scale, online education.

The above & further articles are available via the source link provided below.

Faculty, Professional Development, and Online teaching

- Wasserman E, Migdal R (2019) '**Professional Development- Differences in teachers' attitudes between online and traditional training courses**', *Online Learning* [online], 23(1), March 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1299> [accessed 25 May 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i1.1299> [accessed 25 May 2019]

- The basic need for man to be constantly engaged in learning on the one hand and the technological revolution on the other hand lends itself to an interesting combination of change in the learning process. This change has not overlooked the teachers who have also undergone changes in their professional development at the Pisgah centers. The technology age has brought with it online learning. The purpose of this study is to examine the attitudes of the teachers training in the Pisgah centers in Israel on the differences between online and traditional training courses. This study was conducted using the quantitative methods with 495 teachers participating. The study findings indicate four main areas related to teachers' attitudes. Effectiveness and application, environment, course assignments and attitudes towards ICT. Significant differences were found in the environment variable and the ICT variable between online and traditional training in favour of online training. In addition, a multi regression analysis found that the effectiveness of the course can be explained by the variable: environment, course, assignments, and ICT.

Keywords: professional development, online learning, technology in education

- Andrews G (2019) '**Benefits of Online Teaching for Onground Teaching at a Historically Black Colleges and Universities**'. *Online Learning* [online], 23(1), March 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1435> [accessed 25 May 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i1.1435> [accessed 25 May 2019]

- Technology and distance education are on the rise in community colleges, 4-year institutions, Ivy League colleges, research institutions, and technical colleges. One of the most significant phenomena occurring in Historically Black Colleges and Universities (HBCU) today is distance education. Academic leaders can better implement professional development plans to promote online programs if they understand faculty perceptions

about teaching online. This phenomenological research paper presents the results of 12 lived the experience of higher education faculty members at a HBCU who transitioned from a face-to-face teaching modality to a distance education instructional delivery and subsequently returned to the face-to-face classroom.

Keywords: online, face-to-face, HBCU, teaching experience, higher education, phenomenology

- Berry S (2019) '**Teaching to Connect: Community-Building Strategies for the Virtual Classroom**', *Online Learning*, [online], 23(1), March 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1425> [accessed 25 May 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i1.1425> [accessed 25 May 2019].

- A sense of community is central to student engagement and satisfaction. However, many students struggle with developing connections in online programs. Drawing on interviews with 13 instructors, this paper explores the strategies that they use to help students develop a sense of community in synchronous virtual classrooms. Four strategies for building community online are identified: reaching out to students often, limiting time spent lecturing, using video and chat as modes to engage students, and allowing class time to be used for personal and professional updates.

Keywords: learning community, community of inquiry, online learning, higher education

- Martin F [et al.] '**Award-Winning Faculty Online Teaching Practices: Roles and Competencies**', *Online Learning*, [online], 23(1), March 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1329> [accessed 25 May 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i1.1329> [accessed 25 May 2019].

- Given the explosive growth of online learning institutions of higher education, we are in dire need of guidelines for instructing new and continuing online instructors on how best to teach in online spaces. The purpose of this study was to identify the roles of the online instructor and categorize critical competencies for online teaching based on a review of research, and the perspectives of award-winning online faculty. In this article we interviewed eight award-winning online faculty members from across the United States. Based on interviews, it was found that online instructors were assuming five different roles: Facilitator, Course Designer, Course Delivery, Subject Matter Expert, and Mentor. Participants' common tasks when designing and teaching an online course fell in two areas, either Course Design or Teaching. This research has clear implications not only for the literature research base, but for our institutions as well as we continue to offer increasing numbers of effective online courses and programs to our students.

Keywords: Online Instructor Roles, Online Instructor Tasks.

- Singleton K [et al.] '**Integrating UDL Strategies into the Online Course Development Process: Instructional Designers' Perspectives**', *Online Learning* [online], 23(1), March 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1407> [accessed 25 May 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i1.1407> [accessed 25 May 2019].

- This qualitative case study design examined the perspectives that instructional designers at a 4-year research institution in the Mid-Atlantic region of the United States have about integrating UDL strategies into the online course development process. The participants were six individuals involved in the online course development process: four of the participants were instructional designers working for the Instructional Design Team, one participant was an assistant program manager in the Office of Distance Education, and the other was an instructional designer working in the College of Health and Human Services. The interviews focused on the participant's perspectives on the integration of UDL strategies and how they believe faculty perceived such practices. Using a series of semi-structured interviews and document analysis, three distinct themes emerged: (a) the importance of the instructional designer/faculty member partnership, (b) the number of factors impacting faculty adoption of UDL strategies in their online courses, and (c) faculty resistance to changes in how classroom accommodations are addressed in the higher education classroom. In addition to highlighting factors impacting the integration of UDL strategies, the findings also revealed techniques that could be useful in improving faculty adopting of such practices.

Keywords: Online learning, accessibility, UDL, universal design, disability, distance education, higher education, online course development, instructional design

Review of Literature

- Byrnes J, James D [et al.] '**Doctoral E-mentoring: Current Practices and Effective Strategies**'. *Online Learning*, [online.], 23(1), March 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1446> [accessed 25 May 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i1.1446> [accessed 25 May 2019].

- Effective mentoring has been the cornerstone of a successful doctoral experience. Traditional doctoral education uses an apprenticeship model for mentoring to help students learn what is required as an academic professional. However, online environments present unique challenges to creating and maintaining mentor-mentee relationships. Using keywords specific to e-mentoring and online graduate education, literature

searches were conducted to isolate relevant research from the last decade. From this literature, it was possible to synthesize current practices in e-mentoring and identify effective strategies to use for doctoral students conducting research. Using Yob and Crawford (2012) framework, results were organised into the following six independent categories: Competence, Availability, Induction, Challenge, Communication, and Emotional Support. Other aspects that impact the mentoring relationship are also discussed.

Keywords: E-mentoring; Higher Education; Graduate Education; Literature Review; Faculty-Student Collaboration

- Shazia K J, Vlachopoulos P, and Parsell, M (2019) '**Social Network Analysis and Online Learning Communities in Higher Education: A Systematic Literature Review**' *Online Learning* [online], 23 (1), March 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1398> [accessed 25 May 2019]. doi: <http://dx.doi.org/10.24059/olj.v23i1.1398> [accessed 25 May 2019].

- This paper presents the results of a systematic literature review which sets out to explore the use of social network analysis (SNA) for investigating online learning communities in higher education. The impetus for such a review originated from an increased interest by researchers in SNA techniques to investigate interactions and learning engagement in various types of online communities. However, the researchers often omit to ground their research and SNA methods in community-based learning frameworks such as communities of inquiry (Col) and Communities of practice (CoP). We identified a handful of studies that integrate SNA methods and key constructs from these frameworks and examined: SNA measures and corresponding theoretical constructs used; other analytical techniques used; limitations and; suggestions for further research. We found that while SNA is effective in detecting prominent participants, sub-groups and certain aspects of a CoP, a specific SNA measure cannot be correlated with a particular presence in a Col. Therefore, SNA needs to be complemented with a qualitative analytical technique. Whether SNA can be used as a stand-alone technique for identifying communities remains to be seen. We also find a lack of consideration to attributional and performance variables in existing studies. In conclusion, we propose the development of a fully integrated research framework for a holistic analysis of online learning and teaching.

Keywords: social network analysis, online learning, communities, systematic review.

Source: *Online Learning Journal* [online], **Volume 23, No. 1, March 2019**. Available at <https://olj.onlinelearningconsortium.org/index.php/olj> [accessed 25 May 2019] Online Learning Consortium (OLC)

Top searching tips from Lucy the Librarian – Whilst you are reading the *Online Learning* journal articles from OLC do take time to familiarise yourself with the further supporting services and resources online. You will note (down the right-hand side) that there are 'Journal Content' search facilities, 'Journal Help' section, and within articles there is an 'Article Tools' section that include 'How to Cite Item' and '**Finding References**' that provides a tool where you can search for additional articles written by the same author or subject area within 'Google Scholar' &/or 'Windows Live Academic'.

Related Links:

MERLOT – **M**ultimedia **E**ducational **R**esource for **L**earning and **O**nline **T**eaching [online] and further information available at: <https://www.merlot.org/merlot/index.htm> [accessed 25 May 2019]. **JOLT**, MERLOT's Journal for **O**nline **L**earning and **T**eaching [online] and available at: <http://jolt.merlot.org/index.html> [accessed 25 May 2019]

The State of Innovation in Higher Education: A Survey of Academic Administrators

This report explores the drivers and barriers to innovation at U.S. higher education institutions. The report, which is based on a survey of more than 100 U.S. academic administrators, reveals what an innovative culture looks like and how higher education institutions define and employ innovation.

A joint project of The Learning House, Inc. and the Online Learning Consortium (OLC) [online]. Available at: <https://onlinelearningconsortium.org/read/state-of-innovation-in-higher-education/> [accessed 25 May 2019]

[Back to top](#)

The Open Education Research Hub ([OER Hub](#))

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

OER Hub – Researching Open Education gathers research on the impact of open educational resources (OER) on learning and teaching practices. The OER Research Hubs intention is to respond to a need from the OER world for more research on which they can base their decisions. The Research Hub shares evidence that is gathered through mixed methods research including interviews, surveys, focus groups, critical incidence analysis, activity theory and analysis of learning design. Findings are likely to be of interest to a wide range of stakeholders in the education sector. The project is based at [The Open University's \(OU\) Institute of Educational Technology](#) and is the OU's flagship project for research into open education and OER.

Open Educational Resources (OER) Research Hub [online]. Further information is available at <http://oerhub.net/> [accessed 25 May 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 25 May 2019]
- Farrow R, de los Arcos B, and Weller M (2015) 'Who are the Open Learners? A Comparative Study Profiling Non-Formal Users of Open Educational Resources', *European Journal of Open, Distance and E-learning*, 18(2) [online]. Available at: <http://oro.open.ac.uk/44962/> [accessed 25 May 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 25 May 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 25 May 2019].
- McAndrew P, and Scanlon E (2013) 'Open learning at a distance: lessons for struggling MOOCs', *Science*, 342 pp. 1450-1451 [online]. Available at: <http://oro.open.ac.uk/39736/> [accessed 25 May 2019]
- McAndrew P, and Farrow R (2013) "Open Education Research: From the Practical to the Theoretical" in McGreal, R., Kinuthia, W. and Marshall, S. (eds) *Open Educational Resources: Innovation, Research and Practice*. Commonwealth of Learning and Athabasca University, Vancouver. pp.65-78 [online]. Available at: <https://oerknowledgecloud.org/content/open-education-research-practical-theoretical> [accessed 25 May 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 25 May 2019].

Open Educational Resources (OER) 'Summary of Research Dissemination - OER Hub' [OER Hub – Researching Open Education homepage > Research & outputs > Publications] OER Hub [online]. Further information is available at: <http://oerhub.net/> [accessed 25 May 2019].

Related links:

Open University (OU) UK [online] and available at: www.open.ac.uk/ [accessed 25 May 2019]

Open University (OU) UK, Institute of Education Technology [online] and available at: www.open.ac.uk/iet/main/ [accessed 25 May 2019]

[Back to top](#)

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 29/05/2019):

- **13,303** journals
- **10,318** journals searchable at article level
- **130** countries
- **4,018,628** articles

The Directory of Open Access Journals (DOAJ) <https://doaj.org/> [accessed 25 May 2019]

[Back to top](#)



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 25 May 2019]

Example articles/papers in the most recent issue include:

- **Site operatives' attitudes towards traditional masculinity ideology in the Australian construction industry**

George M, and Loosemore M (2019) '**Site operatives' attitudes towards traditional masculinity ideology in the Australian construction industry**', *Construction Management and Economics*, 37(8), pp419-432, London: Taylor and Francis Online, Informa UK Limited, DOI: **10.1080/01446193.2018.1535713** [accessed 29 May 2019]

- **Is the evolution of building sustainability assessment methods promoting the desired sharing of knowledge amongst project stakeholders**

Thomson C S, and El-Haram M A (2019) **'Is the evolution of building sustainability assessment methods promoting the desired sharing of knowledge amongst project stakeholders?'**, *Construction Management and Economics*, 37(8), pp433-460, London: Taylor and Francis Online, DOI: [10.1080/01446193.2018.1537502](https://doi.org/10.1080/01446193.2018.1537502) [accessed 29 May 2019]

- **Incentive strategies for construction project manager: a common agency perspective**

Sha K (2019) **'Incentive strategies for construction project manager: a common agency perspective'**, *Construction Management and Economics*, 37(8), pp461-471, London: Taylor and Francis Online, DOI: [10.1080/01446193.2018.1554255](https://doi.org/10.1080/01446193.2018.1554255) [accessed 29 May 2019]

- **A brief case for an organisational grounding for structural safety in the construction sector**

Festival Godwin Boateng (2019) **'A brief case for an organizational grounding for structural safety in the construction sector'**, *Construction Management and Economics*, 37(8), pp472-473, London: Taylor and Francis Online, DOI: [10.1080/01446193.2019.1591629](https://doi.org/10.1080/01446193.2019.1591629) [accessed 29 May 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.

[Back to top](#)

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 25 May 2019]

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

Research:

- **The House of Commons: a precedent for post-occupancy evaluation**

Schoenefeldt H (2019) **'The House of Commons: a precedent for post-occupancy evaluation'**, *Building Research & Information*, 47(6), pp635-665, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2019.1547547](https://doi.org/10.1080/09613218.2019.1547547) [accessed 25 May 2019]

- **Life cycle assessment of a Danish office building designed for disassembly**

Malabi Eberhardt L C, Birgisdóttir H, and Birkved M (2019) **'Life cycle assessment of a Danish office building designed for disassembly'**, *Building Research & Information*, 47(6), pp666-680, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1517458](https://doi.org/10.1080/09613218.2018.1517458) [accessed 25 May 2019]

- **Communicating environmental information: rethinking options for construction products**

Ströbele B, and Lützkendorf T (2019) '**Communicating environmental information: rethinking options for construction products**', *Building Research & Information*, 47(6), pp681-696, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1521191](https://doi.org/10.1080/09613218.2018.1521191) [accessed 25 May 2019]

- **Stochastic Petri-net models to predict the degradation of ceramic claddings**

Ferreira C, Canhoto Neves L [et al.] (2019) '**Stochastic Petri-net models to predict the degradation of ceramic claddings**', *Building Research & Information*, 47(6), pp697-715, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1501873](https://doi.org/10.1080/09613218.2018.1501873) [accessed 25 May 2019]

- **A critical analysis of research of a mass-housing programme**

Kowaltowski D C C K, Muianga E A D M [et al] '**A critical analysis of research of a mass-housing programme**', *Building Research & Information*, 47(6), pp716-733, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1458551](https://doi.org/10.1080/09613218.2018.1458551) [accessed 25 May 2019]

Information

- **Optimal spaces for those living with dementia: principles and evidence**

Barrett P, Sharma M, and Zeisel J (2019) '**Optimal spaces for those living with dementia: principles and evidence**', *Building Research & Information*, 47(6), pp734-746, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1489473](https://doi.org/10.1080/09613218.2018.1489473) [accessed 25 May 2019]

- **Healing built-environment effects on health outcomes: environment-occupant-health framework**

Zhang Y, Tzortzopoulos P, and Kagioglou M (2019) '**Healing built-environment effects on health outcomes: environment-occupant-health framework**', *Building Research & Information*, 47(6), pp747-766, DOI: [10.1080/09613218.2017.1411130](https://doi.org/10.1080/09613218.2017.1411130) [accessed 25 May 2019]

- **Policy implications for the performance gap of low-carbon building technologies**

McElroy D J, and Rosenow J (2019) '**Policy implications for the performance gap of low-carbon building technologies**', *Building Research & Information*, 47(6), pp611-623, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1469285](https://doi.org/10.1080/09613218.2018.1469285) [accessed 25 May 2019]

- **Conceptual approaches to wellbeing in buildings: a scoping review**

Hanc M, McAndrew C, and Ucci M (2019) '**Conceptual approaches to wellbeing in buildings: a scoping review**', *Building Research & Information*, 47(6), pp767-783, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2018.1513695](https://doi.org/10.1080/09613218.2018.1513695) [accessed 25 May 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.

[Back to top](#)

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 25 May 2019]

Example **Latest articles**/papers in the most recent issue include:

- **Firm and industry informational content from REIT FFO announcements**

William G. Hardin I, Gow-Cheng H, Kartono L, and Ming-Shiun P (2019) '**Firm and industry informational content from REIT FFO announcements**', *Journal of Property Research*, 36(2), pp131-152, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09599916.2019.1589554](https://doi.org/10.1080/09599916.2019.1589554) [accessed 25 May 2019]

- **Investment decision-making under economic policy uncertainty**

Cath Jackson & Allison Orr (2019) '**Investment decision-making under economic policy uncertainty**', *Journal of Property Research*, 36(2), pp153-185, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09599916.2019.1590454](https://doi.org/10.1080/09599916.2019.1590454) [accessed 25 May 2019]

- **Exploring sentiment-driven trading behaviour of different types of investors in the London office market**

Qiulin K, and Sieracki K (2019) '**Exploring sentiment-driven trading behaviour of different types of investors in the London office market**', *Journal of Property Research*, 36(2), pp186-205, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09599916.2019.1593220](https://doi.org/10.1080/09599916.2019.1593220) [accessed 29 May 2019]

- **Spatial and temporal impacts on building depreciation**

Jaime Armengot J, Brendan Williams & J. Francisco Padial (2019) '**Spatial and temporal impacts on building depreciation**', *Journal of Property Research*, 36(2), pp206-225, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09599916.2019.1602844](https://doi.org/10.1080/09599916.2019.1602844) [accessed 29 May 2019]

Please note: that this journal can be accessed (IN FULL) via the **VLE e-Library login**, or via section 2 - **Athens gateway to e-Library resources**, and by selecting **Taylor and Francis Online** via the **Resources** tab.

[Back to top](#)

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. [Back to top](#)



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.

[Back to top](#)



e-Book Review

The **UCEM VLE e-Library** is currently building on its' e-Book collection, available through **Athens** and by clicking on **DawsonEra** (listed within **the Resources** section). It is hoped that over time, UCEM will provide greater access to e-Books over hard-copy versions to provide the students with greater flexibility and access to a wide range of publications.

Often books may have an excellent chapter covering a topic you wish to discuss, and this can prove expensive in purchasing and posting, when only a small section of the book is relevant. Therefore, drawing attention to an e-Book via the e-Library and recommending they read a particular chapter is much more efficient and effective and allows UCEM to build their library as well as providing a wider range of publications for students to access and Tutors to use in supplementing their Teaching and Learning Materials.

Please note: By visiting the VLE e-Library and the various digital subscriptions that UCEM currently holds, students and tutors can gain access to a wealth of additional online material and catalogues incl. a range of reference e-books available within the construction and real estate sectors. For example, **IHS Information Services** and the **Construction Information Service** (accessible via Athens) holds a vast array of eBooks. You can also access **RICS** published material incl. eBooks via **ISURV** (accessed via Section 5 of the VLE e-Library).

Six books that are currently available are as follows:

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

The first and sixth book, as well as the second 'book review' mentioned above are freely available online. However, the other three have been purchased by UCEM and are available, as e-Books, within the VLE e-Library and via Athens and Dawson Books. Once you have accessed DawsonEra, if you click on '**eBook Catalogue**' within the top toolbar, this contains UCEM purchased eBooks. Alternatively, you can search for the title within the Advanced Search engine.

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 25 March 2019]

Dominguez, D. (2015). Book review of *The Battle for Open*. *Open Praxis*, 7(2), 191-193. doi:10.5944/openpraxis.7.2.208

ISSN: 2304-070X, International Council for Open and Distance Education (ICDE)

Has the openness movement won the battle to transform itself into a mainstream phenomenon in higher education? If the answer is yes, does this mean that the disputes with other educational technological solutions, restricted, have definitely ended? Or rather is it only the beginning of a long confrontation to take centre stage in a digital ecosystem that is increasingly more nuanced, where the number of actors keeps growing and the limits on what is open is ever more diffuse?

In this new book, the author Martin Weller attempts to find answers to these questions. To do so, he introduces a group of quite varied subjects on evolution and the current state of higher education. As such, his contribution turns into an authentic manual for everyone who has an interest in the digitization of education.

Keywords: Open access; open education; OER.

2. The new landscape of mobile learning: Redesigning education in an app-based world -

Miller, C., & Doering, A., (Eds.). (2014). *The new landscape of mobile learning: Redesigning education in an app-based world* (1st ed.). New York, NY: Routledge

Hetrick, T. (2015). Book review of *The new landscape of mobile learning: Redesigning education in an app-based world*. *Open Praxis*, 7(1), 113-115. doi:10.5944/openpraxis.7.1.178. ISSN: 2304-070X, International Council for Open and Distance Education (ICDE)

This is a book review on *The new landscape of mobile learning: Redesigning education in an app-based world*, by editors Charles Miller and Aaron Doering. This is an edited book, but one for which the editors sought out specific authors to write about their experiences and expertise on mobile learning. One of Miller and Doering's goals is to promote greater thinking about mobile learning through the understanding that learning is a complex process built from pedagogical foundations that integrate social interactions with technology. The editors argue that a fundamental aspect to mobile learning is mobility, which is the ability to freely move about and collaborate in an authentic environment in which learners gain insight and construct knowledge. The authors try to address problems in mobile learning and put forth solutions, but this also highlights the fragmented problems of mobile learning as the book in itself is fragmented. Instead of treating mobile learning as its own system or field, it becomes evident that one should be describing mobile learning as mobile integration and explores how to use mobility in the everyday learning context. From the perspective of mobile integration, this book is very practical as the authors did an outstanding job of providing information about the steps of integrating mobile devices into specific areas to assist or augment learning.

3. Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education

By Moore, C., (c2017). *Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education*. IGI Global

The integration of technology has become an integral part of the educational environment. By developing new methods of online learning, students can be further aided in reaching goals and effectively solving problems. *The Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education* is an authoritative reference source for the latest scholarly research on the implementation of instructional strategies, tools, and innovations in online learning environments. Featuring extensive coverage across a range of relevant perspectives and topics, such as social constructivism, collaborative learning and projects, and virtual worlds, this publication is ideally designed for academicians, practitioners, and researchers seeking current research on best methods to effectively incorporate technology into the learning environment.

4. Studying at a Distance -

By Talbot, C., (01/08/2010), Publisher: Open University Press

e-ISBN-13: 9780335238057

This essential guide provides practical help and support for those who have not previously studied at a distance and is ideal for students returning to study after a break. It covers fundamental issues such as motivation, goal setting, time management and coping strategies. Additional coverage in this third edition includes: specific information on the use of new technologies in distance learning; detailed coverage of referencing, citation and plagiarism; description of using mind maps and other techniques for planning and writing essays or reports; support for disabled students, particularly those with dyslexia; and, an expanded further resources section.

5. Rethinking Pedagogy for a Digital Age –

Edited by Beetham, H., & Sharpe, R., Publisher: Routledge

e-ISBN-13: 9780203078952

Through a critical Discussion of the issues surrounding the design, sharing and reuse of learning activities, the second edition of '*Rethinking Pedagogy for a Digital Age*' examines a wide range of perspectives on effectively designing and delivering learning activities to ensure that future development is pedagogically sound, learner-focused, and accessible.

Keywords: Education; Pedagogy; e-Learning

6. ADDING SOME TEC-VARIETY: 100+ Activities for Motivating and Retaining Learners Online

Adding Some TEC-VARIETY by Curtis J. Bonk and Elaine Khoo

As this book states, "Motivation is central to all things human" and Online teaching and learning are no different.

The authors of this FREE ONLINE BOOK propose the TEC-VARIETY framework as a solution to the lack of meaningful engagement. It can shift learners from nearly comatose states to actively engaged ones. *Adding Some TEC-VARIETY* helps instructors focus on how to motivate online learners and increase learner retention. It also is a comprehensive, one-stop toolkit for online instructors to inspire learners and renew their own passion for teaching. Using 10 theoretically driven and proven motivational principles, TEC-VARIETY offers over 100 practical yet innovative ideas based on decades of author experience teaching in a variety of educational settings.

Source: **Adding Some TEC-VARIETY** by Curtis J. Bonk and Elaine Khoo [online]. Available at: <http://tec-variety.com/> [accessed 25 May 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 25 May 2019]. The e-book PDF can be accessed through the book homepage [online]. Available at: <http://tec-variety.com> and <http://tec-variety.com/freestuff.php> [accessed 25 May 2019]

[Back to top](#)

The Directory of Open Access Books (DOAB) –

The primary aim of DOAB is to increase discoverability of Open Access books. Academic publishers are invited to provide metadata of their Open Access books to DOAB. Metadata will be harvestable in order to maximize dissemination, visibility and impact. Aggregators can integrate the records in their commercial services and libraries can integrate the directory into their online catalogues, helping scholars and students to discover the books. The directory is open to all publishers who publish academic, peer reviewed books in Open Access and should contain as many books as possible, provided that these publications are in Open Access and meet academic standards.

Some key DOAB facts (as of 25/05/2019):

- **16,768** Academic peer-reviewed books from

- **317** publishers

The Directory of Open Access Books (DOAB) www.doabooks.org/doab [accessed 25 May 2019]

[Back to top](#)

Latest book and journal titles

Latest book titles from

Elsevier is a world-leading provider of information solutions that help you make better decisions, deliver better care, and sometimes make ground-breaking discoveries in science, health, and technology.

Built Environment including Architecture, Building and Construction, and Property and Real Estate [online].

Further information is available at: www.elsevier.com/ [accessed 25 May 2019]

LawTrove [online]. Further information is available at: www.oxfordlawtrove.com/ [accessed 25 May 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 25 May 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 25 May 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 25 May 2019]

Latest info: Property and Real Estate catalogue [online] and available at: www.routledge.com/collections/4812 [accessed 25 May 2019]

Other subject categories incl.

- Architecture - www.routledge.com/architecture/
- Building and Construction - www.routledge.com/buildingconstruction
- Built Environment - www.routledge.com/builtenvironment
- Planning and Urban Design - www.routledge.com/planning/
- Research Methods - www.routledge.com/research-methods

[websites correct as at 22 May 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 25 May 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 25 March 2019] and <http://eu.wiley.com/WileyCDA/> [accessed 25 May 2019].

'Wiley' Online Library hosts the world's broadest and deepest multidisciplinary collection of online resources covering life, health and physical sciences, social science, and the humanities. It delivers seamless integrated

access to over 6 million articles from over 1500 journals, over 16,000 online books, and hundreds of reference works, laboratory protocols and databases. Further information is available online at: <http://onlinelibrary.wiley.com/> [accessed 25 May 2019]

Wiley Open Access [online]. Further information is available at: <http://olabout.wiley.com/WileyCDA/Section/id-406071.html> [accessed 25 May 2019]

- Business and Management [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000028> [accessed 25 May 2019]
- Economics [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000047> [accessed 25 May 2019]
- Law [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000076> [accessed 25 May 2019]
- Civil Engineering and Construction [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000034> [accessed 25 May 2019]

[Back to top](#)



Information Governance incl. © Guidance and Data Protection:

“It is important to remember that Copyright material in digital form is protected in exactly the same way as Copyright material in any other format. For example, text and images on a website are protected by copyright in the same way as printed material.

Please note: if there is something you really want to use for learning materials and someone else owns the copyright ... permission must be sought!

The copyright owner may wish to charge you, but often they just appreciate you asking them if they are happy for you to acknowledge their work and inform them of how the information will be used and who it will be circulated to”.

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

Copyright

The Copyright Licensing Agency Ltd (CLA)

The CLA are a licensing body as defined by the Copyright, Designs and Patents Act 1988 c.48 (as amended) [“CDPA”].

The CLA licence organisations to copy and re-use extracts from print and digital publications on behalf of the copyright owners – authors, publishers and visual artists. By ‘copying’ the CLA means photocopying, scanning, and re-use of content from magazines, books, journals, electronic and online publications, as well as press cuttings or documents supplied by a licensed third party.

Having a CLA licence helps to reduce the risk and potential cost of copyright infringement. This requirement applies to any organisation in the business, education, public or charitable sectors.

The Copyright Licensing Agency (CLA) - www.cla.co.uk [accessed 25 May 2019]

[Back to top](#)

CLA Title search tool

The **CLA Title Search** is an online search tool that lets you quickly find out what you can copy under your organisation’s CLA licence.

Whether you'd like to photocopy and distribute an article to colleagues or upload a report to an intranet or VLE, the CLA Title Search simplifies the steps required to ensure compliance.

UCEM has a [CLA 'Independent Higher Education Photocopying and Scanning Licence'](#)

CLA Higher Education, Check Permissions @ www.cla.co.uk/higher-education-licence [accessed 25 May 2019]

[Back to top](#)

Further guidance on Copyright and Digital Copyright incl.

- What is copyright? @ www.cla.co.uk/what-is-copyright [accessed 25 May 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 25 May 2019]

[Back to top](#)

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].

[Back to top](#)

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 25 May 2019]

[Back to top](#)

Latest Copyright News:

European Council adopts new copyright directive

The European Council has adopted the **copyright directive** that will reinforce journalists’ and publishers’ rights to protect their work online.

In a statement today (see publication date) the council said the new directive, which does not create new copyright laws but updates them for the internet, will “pave the way towards a true digital single market”.

The new rules will allow short snippets of news text to be shared by platforms, such as Facebook and Google, without breach of copyright, but also has provisions to protect copyright holders.

This and further information are available at:

Source: Heritage Update e-Bulletin [online], Issue **No 392**, 26 April 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 May 2019]

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

Related Links:

BBC News > Copyright [online]. Available at: www.bbc.co.uk/news/topics/c4wl5zqxv9xt/copyright [accessed 25 May 2019]

Article 13: Memes exempt as EU backs controversial copyright law

Kleinman Z (2019) ‘Article 13: Memes exempt as EU backs controversial copyright law’, [BBC News > Technology > EU backs controversial copyright law] BBC News [online], 26 March. Available at:

www.bbc.co.uk/news/technology-47708144 [accessed 25 May 2019]

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 25 May 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 25 May 2019]

The Guardian Online (2018) European Commission [online]. Available at: www.theguardian.com/world/european-commission [accessed 25 May 2019]

The Guardian Online (2018) Europe [online]. Available at: <https://www.theguardian.com/world/europe-news> [accessed 25 May 2019]

Malik K (2018) 'A fairer deal on web copyright doesn't need the bovver 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 25 May 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 25 May 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 25 May 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 25 May 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.

[Back to top](#)

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 25 May 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 25 May 2019]

& other related links:

EUGDOR.org portal (2018) ‘GDPR Key Changes’ [online]. Available at: www.eugdpr.org/key-changes.html [accessed 25 May 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 25 May 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 25 May 2019]

[Back to top](#)

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. Other useful Information, Advice and Guidance on Data Protection, GDPR and more can be found at the Information Commissioner's Office (ICO) including:

- Guides to the legislation incl. **Data Protection**; Freedom of information; Electronic communications and marketing; Environmental information; Spatial information; and Re-use of information
- In your sector covers – **Education**; Health; Small business; **Marketing**; Local government; Police, justice and surveillance; Charity; Finance, insurance and credit; Elected reps and political parties; and the media

Resource and support covers -

- **Getting ready for the GDPR checklist** – designed to help you get your house in order, ready for the new legislations. Includes getting to grips with new rights of individuals, handling subject access requests, consent, data breaches, and designating a data protection officer.

Self-assess, training and promote incl. -

- **Data protection self-assessment toolkit**,
- **Posters, stickers and e-learning** (incl. the above)
- **Training videos**,
- **Webinars**,
- **Health sector resources**, and
- **Personal information promise**

Information Commissioner's Office (ICO), *Resource and support* [online]. Available at: <https://ico.org.uk/for-organisations/resources-and-support/> [accessed 25 May 2019]

Related Links:

Information Commissioner's Office [n.d.] 'Advice service for small organisations' [online]. Available at: <https://ico.org.uk/global/contact-us/advice-service-for-small-organisations/> [accessed 25 May 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 25 May 2019]

[Back to top](#)

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 25 May 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 25 May 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 25 May 2019]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 25 May 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 25 May 2019]. **N.B.** From this above-mentioned web-link you can also gain further information about **Privacy; Facebook;** and **Facebook-Cambridge Analytica data scandal**

[Back to top](#)



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 25 May 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 25 May 2019]

[Back to top](#)

2. **Revo** – Retail. Property. Community.

Formerly British Council of Shopping Centres (BCSC) - BCSC (British Council of Shopping Centres) was the professional body for retail property – an authoritative voice for UK retail-led regeneration and for the management of and investment in shopping places. However, BCSC is changing and is now Revo. Revo supports the people and businesses involved in the diverse world of retail property and placemaking to thrive and prosper – energizing and driving progress for our community.

As stated within their new website:

A broader remit – Revo are now embracing all kinds of retail property and all kinds of stakeholders. This diversity makes Revo uniquely placed to champion real improvements and positive change for this sector

Working together – Revo intend to harness the collective experience, as well as the influence and resources of their network to challenge and shape this industry for the future

The influencers – Revo are there to help shape the future of the retail property and placemaking industry. They will be engaging with even more senior figures in key government departments to raise awareness of Revo locally and nationally.

The network – Who you know is just as important as what you know. Revo members have a broad base, with specialisms and experience of all kinds. Revo aim to create more relevant and accessible business and career development opportunities and make sure the industry has the right people, with the right skills.

The benchmark – Revo sets standards, recognizes achievement and sparks ideas. A new educational programme will meet the needs of industry professionals throughout their careers, and there will be a renewed focus on apprenticeships. Revo are also expanding their Awards Programme to better reflect the diversity of the industry.

The trend spotters and thought leaders – Revo intends to stay ahead of the curve, prepared for and embracing the future. They will analyze trends, interpret market data and organize focused working groups and think tanks run by true experts in their fields. They will produce pioneering research and insight papers and establish Revo as the place to come for authoritative commentary.

Having a broad message membership means that the Revo community stay well informed about the large range of issues affecting property owners, developers, investors, asset managers, retailers, consultants, shopping centre managers and public-sector employees and can utilize this network to develop solutions to many of the industry's current challenges.

- **Revo Insights** – Revo conduct innovative research into new trends and are the go-to organization for authoritative commentary and insight on industry and political issues. Revo produce thought-provoking content and engaging communications, making sense of the future of our community. Information contained within incl. Latest research and quarterly retail briefings, Industry reports, Guidance notes, Opinion and Trend Bites. Revo Insights [online]. Available at <https://www.revocommunity.org/insights> [accessed 25 May 2019]
- **Revo Education** – Revo are setting standards, recognizing achievement and sparking ideas. Their new educational programme will meet the needs of industry professionals throughout their careers, and they have a renewed focus on apprenticeships. Revo Education [online]. Available at: www.revocommunity.org/education [accessed 25 May 2019]

Source: British Council of Shopping Centres (BCSC), now **Revo - Retail. Property. Community** [online]. Available at: www.revocommunity.org/ [accessed 25 May 2019]

[Back to top](#)

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 25 May 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 25 May 2019]

[Back to top](#)

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 25 May 2019]

[Back to top](#)

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 25 May 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 25 May 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/cgisirsi.exe/0/0/0/60/69/X> [accessed 25 May 2019]

RICS Library Services [online]. Available at: www.rics.org/uk/footer/library-services/ [accessed 25 May 2019]

[Back to top](#)

6. **Chartered Institute of Building (CIOB) Insight** –

CIOB Insight – CIOB’s aim is to advance construction management education and to give access to that knowledge so that it can be shared and added to. CIOB do this in several ways and via the above-mentioned link you can gain access to CIOB views on leading issues within the industry, access to special interest groups and information contained within their library, along with data they create through their membership and beyond.

Sections include:

- **Policy and Public Affairs** – including Consultations, Research, Resources and News&Views. **CIOB Policy & Public Affairs [online]**. Available @ <https://policy.ciob.org/> [accessed 25 May 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 25 May 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 25 May 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 25 May 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 25 May 2019]

[Back to top](#)

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 25 May 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 25 May 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.

[Back to top](#)

8. Building Research Establishment (**BRE**)

BRE are an innovative group of researchers, scientists, engineers and technicians who share a common goal – to make the built environment better for all.

Through the BRE Group companies BRE and BRE Global, they generate new knowledge through independent research. This is used to create the products, standards and qualifications that help to ensure buildings, homes and communities are safe, efficient, productive, sustainable and enjoyable places to be. BRE customers use their expertise and services to deliver their social, environmental and economic goals.

Useful web links provide useful information resources incl.

- **News and Events** [online] and available @ <https://bregroup.com/news> [accessed 25 May 2019]
- **BRE Services** incl. Advisory, Conferences, Research, Testing, Certification and listing, Expert witness, Standards, and Training [online]. Available at: <https://bregroup.com/services/> [accessed 25 May 2019]
- **BRE Expertise** incl. BIM, Fire, Resilience, Security, Energy, Innovation, Safety, and Sustainability [online]. Available at: <https://bregroup.com/expertise/> [accessed 25 May 2019]
- **BRE Sectors** Incl. Property, Product manufacturing, and Construction [online]. Available at: <https://bregroup.com/sectors/> [accessed 25 May 2019]
- **BRE Products** incl. BREEAM, BRE Academy, Digital tools, CEEQUAL, Home Quality Mark, LPCB, SABRE, and SmartSite [online]. Available at: <https://bregroup.com/products/> [accessed 25 May 2019]
- **BRE Networks** incl. APRES, BRE Innovation Parks Network, BRE Women’s Network, Centre for Smart Homes & Buildings, Commercial Partnerships, Constructing Excellence, and UK Green Building Council [online]. Available at: <https://bregroup.com/networks/> [accessed 25 May 2019]

Building Research Establishment (BRE) [online] and available @ <https://bregroup.com/> [accessed 25 May 2019]

[Back to top](#)

9. **Global Research Gateway:** CBRE’s online resource for Real Estate Research -

- CBRE, the global leader in real estate services and investment.

Every day, in markets around the globe, CBRE apply insight, experience and resources to help clients make informed real estate decisions. Every year, they complete thousands of successful assignments across a wide range of markets and real estate service lines.

CBRE’s deep experience and expertise allows them to paint a precise picture of global commercial real estate conditions and trends. It allows them to recognize opportunities quickly and take advantage of them.

CBRE’s mission is to deliver consistently superior results by:

- Always putting the client first
- Bringing the best talent to every assignment
- Collaborating across markets and service lines
- Capitalizing on the depth of our market information and insight

CBRE has a **Global Research Gateway:** Your source for Real Estate Research [online]. Available at <https://researchgateway.cbre.com/> [accessed 25 May 2019]. [Back to top](#)

10. **TRUSTDR (Trust in Digital Repositories)** –

TRUSTDR (Trust in Digital Repositories) – a research project that examined how to effectively manage the legal aspects of digital collections of learning resources and produced a policy development toolkit.

It should be especially used for those wanting to provide a sound legal foundation for an institutional open education policy. It did this by critically examining the cultural, educational and technical factors involved and produced practical solutions and analyses. It took a very broad approach to the subject and examined issues of professional and organisational change in relation to the use of technology in education. All the outputs are freely available under a Creative Commons attribution **CC-BY licence**. You can access the project web site via the TRUSTDR (Trust in Digital Repositories) website [online]. Available at: <http://trustdr.digitalinsite.co.uk/> [accessed 25 May 2019]

[Back to top](#)

11. **The CIT-EA Project Creating Innovative Technology – Enhanced Assessments)** –

The CIT-EA Project Creating Innovative Technology – Enhanced Assessments) – a research project that explored ways to increase the amount of assessment in Further and Higher Education using technology.

Its ‘signature’ approach was to use systems theory to explore and identify the barriers to the adoption of e-assessment and identify workable solutions – it also had a focus on using learning design concepts especially the use of ‘design patterns’ in the form of assessment re-design templates. All the outputs are freely available under a Creative Commons attribution **CC-BY licence**. You can find the project website via the CIT-EA Project Creating Innovative Technology – Enhanced Assessments website [online]. Available at:

<http://citea.digitalinsite.co.uk/> [accessed 25 May 2019]

[Back to top](#)

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 25 May 2019]

Researchers and educators use COPAC* to save time in their research, to quickly and easily discover and locate resources, to check documents details, review materials etc. Information professional trust COPAC* to give them access to a unique pool of high-quality bibliographic information.

COPAC* is a Joint Information Systems Committee (JISC) service, provided for the UK community based on an agreement with Research Libraries UK (RLUK). The service uses records supplied by RLUK members, as well as an increasing range of specialist libraries with collections of national research interest.

COPAC* is a registered trademark of The University of Manchester.

NOTE: Institution of Civil Engineers (ICE) Library catalogue has been added to COPAC* – COPAC* has loaded the catalogue of the Institution of Civil Engineers Library onto COPAC*. See the COPAC* blog [online] and available @ <http://blog.copac.ac.uk/2015/04/13/institution-of-civil-engineers-library-catalogue-loaded/> [accessed 25 May 2019] for full details.

[Back to top](#)

Also, please note:

Top 20 Urban Planning Websites

- This year, marking the sixth year of The Global Grid’s annual ranking, six new websites joined the ranks of their Top 20 Urban Planning Website selection. Last year’s top-ranking website are, however, holding tight to their positions with only two new additions in the top ten. This year’s list emphasizes the central role of urban policy.

Essbai S (2017) 'Top 20 Urban Planning Websites of 2017' [online], The Global Grid – urbanist news. local views. Available at <https://theglobalgrid.org/the-global-grid-top-20-urban-planning-websites-2017/> [accessed 25 May 2019]

[Back to top](#)



UCEM e-Library portrait

UCEM e-Library portrait @ <https://www.ucem.ac.uk/supported-online-learning/elibrary/> [accessed 25 May 2019]



As of **May 2019**, a search of 'construction' on the internet produces over **3,300,000,000 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.

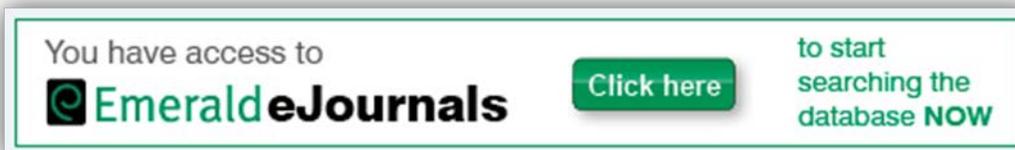
The UCEM e-Library can:

- 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 25 May 2019]

and click on ‘**Access your VLE**’ & visit the ‘**e-Library**’

[Back to top](#)



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

[Back to top](#)

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 25 May 2019]

Or follow them on their Social Media sites. Access via the website **goconstruct.org**



[@GoConstructUK](#)



Related Link:

A career in construction gives you the chance to be part of something BIG! goconstruct.org [accessed 25 March 2019]

[#ElizabethLine](#)

TARGETjobs

All TARGETjob graduate careers guides and directories are available for you to view online and download for future reference incl. **Property 2019** and **Engineering 2019**.

TARGETjobs (2018) 'Graduate careers guides and directories from TARGETjobs' [online]. Available at: <https://targetjobs.co.uk/careers-products> [accessed 25 May 2019]

[Back to top](#)

House Building Careers

Part of Home Builders Federation (HBF), here you will be able to learn about the home building industry and how it benefits you, your community and the country as a whole [online]. Further information available at: <http://housebuildingcareers.org.uk/> [accessed 25 May 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 25 May 2019]

[Back to top](#)

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 – [Fire Safety](#) - May 2019

Lucy Top Tip – If you are planning to sit your RICS APC/AssocRICS this Spring, you'll want to have your preparation well under way this month (see publication date). Make sure you are aware of Property Elite's APC Support services, including submission reviews, question packs, revision quizzes and e-mock interviews. Further information is provided via the link below. Make sure you know about those relevant to your chosen pathway and experience.

This week Property Elite are discussing Fire safety

Fire safety is an essential component of a number of RICS APC competencies, including Health & Safety, Fire Safety, Construction Technology & Environmental Services, Design & Specification and Legal/Regulatory Compliance. This blog article will give you an overview of fire safety and what you might need to know for your RICS APC, incl.

- **Back to basics – what do fires need to start?**
- **What legislation covers fire safety in England and Wales?**
- **Who is the Responsible Person?**

- **What must the Responsible Person do?**
- **What is a Fire Risk Assessment?**
- **What are the steps in carrying out a Fire Risk Assessment?**
- **Who enforces the Order?**
- **What are the penalties for non-compliance?**
- **What other legislation or guidance should I be aware of?**
- **What issues relate to high rise buildings and combustible cladding?**

Is there any further guidance available? There will be further blog articles and articles within *Knowledge Foundations* on this – so stay tuned!

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

For further information, please visit:

Source: Lemen-Hogarth J (2019) *Hot Topic Highlight – Fire safety* [online], Property Elite LLP. Available at: <https://property-elite.co.uk/blog/hot-topic-highlight-fire-safety> [accessed 25 May 2019]

Note: Jen Lemen-Hogarth is an Associate Tutor - UCEM and Partner - Property Elite
You can also download this blog in audio format and listen whilst on the move. When you're done, you can request further information and a free CPD certificate.

[Back to top](#)



bee sustainable
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BUILT • ENVIRONMENT • EDUCATION

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 25 May 2019]

[Back to top](#)

FreeBook: Pathways to Sustainable Agriculture

Produced in Partnership with the ESRC STEPS Center

This FreeBook highlights some of the major findings that have emerged over the last decade of the STEPS Centre's research on sustainable agriculture.

It draws on four books which address three themes central to understanding how pathways emerge in agriculture, and how sustainability, is or indeed is not, generated. The three themes are: framing (how we understand agriculture and its roles in development), practice (how agriculture and agricultural research is carried out, and by whom) and governance (how agriculture is regulated and controlled).

[Click here](#) to gain free access to receive your FreeBook [accessed 25 May 2019]

[Back to top](#)

Sustainable Building Training Guide Launched

Produced by the Green Construction Board and the Construction Leadership Council this new guide has been endorsed by leading construction businesses and industry federations, training bodies, and professional institutions.

This accessible guide explains the principles of sustainable building in terms that are useful for the development of content for standards, qualifications, apprenticeships and training courses. Its purpose is to help the training sector to embed sustainability within all mainstream learning, including the national curriculum, apprenticeships, degrees and professional qualifications. It is therefore a key reference for anyone involved in construction training.

The publication, use, and uptake of this guide is a key recommendation of the “Each Home Counts” Reviews. Its adoption and use by the training sector will help us to address the so-called ‘performance gap’ and will ultimately aid the transition to an energy efficient and low carbon-built environment.

You can download a copy of the publication via the hyperlink provided below.

CIC - Construction Industry Council (2017), *Sustainable Building Training Guide Launched* [online]. Available at: <http://cic.org.uk/news/article.php?s=2017-02-28-sustainable-building-training-guide-launched> [accessed 25 May 2019]

[Back to top](#)

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 25 May 2019]

NOTE: Use of Wikipedia as a reference site:

Wikipedia and use of other Wikis 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.

[Back to top](#)

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 25 May 2019]

[Back to top](#)

Building Research Establishment (BRE) -

Sustainability: [Practical guidance and support for delivering genuine sustainability benefits](#)

- Greater sustainability and its many benefits can be achieved for all buildings, homes, organisations and communities.

Internationally recognised as the developers of sustainability standards codes and methodologies (such as BREEAM) for buildings, homes, communities and infrastructure, the BRE expert team offers a comprehensive range of sustainability services. BRE can also help (further information provided via the below mentioned source) to reduce the environmental impact of construction processes, materials and operations, and provide leading edge information and advice on all aspects of the sustainability of:

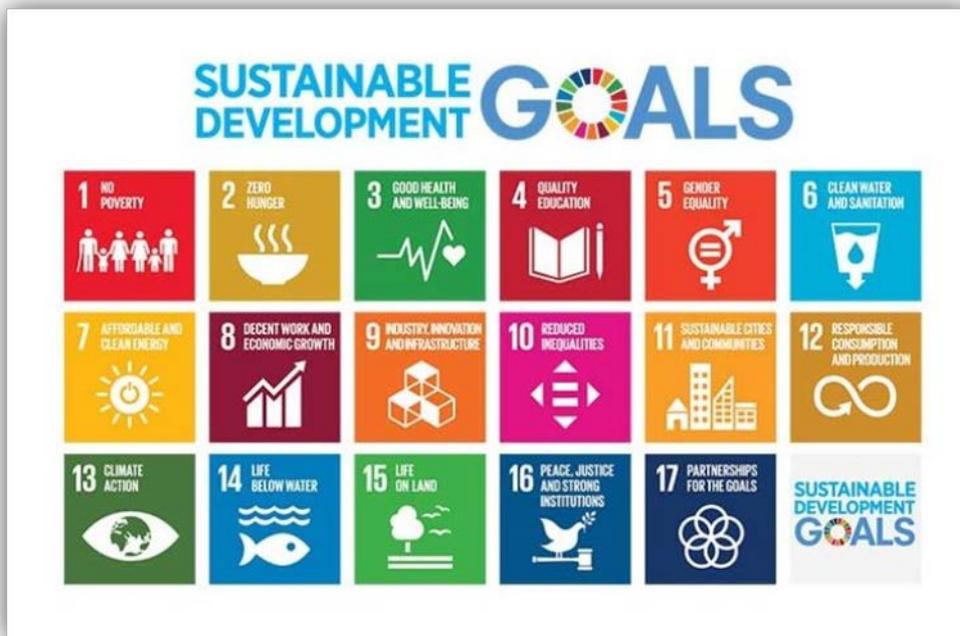
- Sustainable construction of buildings
- Communities
- Infrastructure
- Sustainable organisations
- Materials, products and services
- Waste management
- Energy management services
- Training and publications

This and further information are available at

Source: **BRE / Sustainability** [online] and available @ <https://bregroup.com/expertise/sustainability/> [accessed 25 May 2019]

[Back to top](#)

QSAND and the Sustainable Development Goals



Source: **Designing Buildings.co.uk Wiki**, (2018) 'Forgetting the big picture when considering sustainability' [online], last edited 27 April 2018. Further information is available at: www.designingbuildings.co.uk/wiki/QSAND_and_the_Sustainable_Development_Goals [accessed 25 May 2019]

- The UN Sustainable Development Agenda, adopted by world leaders in 2015, maps out a 15-year plan to fight inequality, end poverty, and tackle climate change challenges. The 17 goals (as identified within the above figure) are designed to build upon the Millennium Development Goals and go further towards ensuring sustainability is at the forefront of human development up until 2030.

From Building Research Establishment (BRE), sustainability and resilience are key focus areas. QSAND (Quantifying Sustainability in the Aftermath of Natural Disasters) is a self-assessment tool to promote sustainable approaches to relief, recovery and reconstruction after a natural disaster. Through QSAND we are contributing to aid the achievement of several of these goals in disaster-affected communities around the globe. Central to the thinking behind the QSAND tool is that sustainable approaches to reconstruction can help limit the impact disasters have in the short, medium and long term and improve the resilience of local communities to future disasters as they occur. It is this holistic approach and a strong focus on the development of local skills and capabilities that demonstrates QSAND's overarching support for the Sustainable Development Goals (SDGs). In addition to its focus on sustainable cities and communities (SDG 11), QSAND supports the goals by promoting clean and renewable energy solutions (SDG 7), responsible consumption (SDG 12), and clean water and sanitation (SDG 6) alongside many other areas.

Consideration of the natural environment alongside the needs of people globally is important in measuring success in the pursuit of the SDGs. It can offer a form of protective barrier against disasters. QSAND does this by providing a framework which can be used to support protection of local ecology, balancing this against the maintenance of livelihoods and economic prosperity. Often, protecting natural resources can also support livelihoods, further reducing a community's vulnerability to disasters.

Whilst QSAND is designed as a tool to be used in response to a specific disaster to support the recovery process, its sustainability scope is wider than this. By considering the medium to longer-term impacts of decisions made in the early days of disaster recovery, it helps provide a framework that can help avoid, limit or mitigate further harm to the natural environment that can occur during reconstruction.

QSAND is proud to support the aims laid out in the Sustainable Development Goals, and support efforts to contribute to the global movement towards a sustainable, resilient, and prosperous future.

Source: **Designing Buildings.co.uk Wiki**, (2019) 'QSAND and the Sustainable Development Goals' [online], last edited 10 January 2019. Further information is available at: www.designingbuildings.co.uk/wiki/QSAND_and_the_Sustainable_Development_Goals [accessed 25 May 2019]

Related Links:

What to expect of sustainability professionals

Designing Buildings.co.uk Wiki, (2018) 'What to expect of sustainability professionals' [online], last edited 16 November 2017. Further information is available at:

www.designingbuildings.co.uk/wiki/What_to_expect_of_sustainability_professionals [accessed 25 May 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 25 May 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 25 May 2019]

NOTE: Use of Wikipedia as a reference site:

Wikipedia and use of other Wikis 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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[Back to top](#)

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 25 May 2019]

[Back to top](#)

Sustainability in Facilities Management (FM) – A useful online tool and resource pool

The Sustainability in Facilities Management (Sustainability in FM) web site provides a practical, easy to use first point of contact for Facilities Managers where best practice case studies on sustainability topics can be found. All case studies are vetted to provide relevance to Facilities Management, practically and absence of marketing spin. The web site also provides Facilities Managers with background information on the most common sustainability issues and links out to recommend centres of excellence.

“Knowledge Transfer Partnerships” (KTP) are a Technology Strategy Board programme set up to improve competitiveness and productivity through the better use of knowledge, technology and skills. The Sustainability in FM research project is a partnership between the British Institute of Facilities Management (BIFM) and the University of Reading under this part government funded scheme.

The aim of the project is to develop practical tools for the FM professional so that they can improve the implementation and management of sustainable practices in the working environment.

Please note: To register on *Sustainability in FM* is free but to access the full content of the site registration is required.

Sustainability in Facilities Management (FM) – A useful online tool and resource pool [online] and available at: <http://www.bifm.org.uk/bifm/knowledge/sustainabilityinfm> [accessed 25 May 2019]

[Back to top](#)

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



Useful web-links

P.T.O.

[Back to top](#)



Useful web-links

[A](#) - [B](#) - [C](#) - [D](#) - [E](#) - [F](#) - [G](#) - [H](#) - [I](#) - [J](#) - [K](#) - [L](#) - [M](#)
[N](#) - [O](#) - [P](#) - [Q](#) - [R](#) - [S](#) - [T](#) - [U](#) - [V](#) - [W](#) - [X](#) - [Y](#) - [Z](#)

A

American Society of Civil Engineers (ASCE) Civil Engineering database www.asce.org/ [accessed 25 May 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 25 May 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 22 February 2019]. **ARCOM Newsletters** - contains the latest news from the industry [online]. Available at: www.arcom.ac.uk/newsletters.php [accessed 25 May 2019]

B [\[Back to A to Z\]](#)

BAILLI Case Law Search (British and Irish Legal Information Institute) [online]. Further information available at: www.bailii.org/form/search_cases.html [accessed 25 May 2019]

BBC Education [online]. Further information available at: www.bbc.co.uk/news/education/ [accessed 25 May 2019]

BBC Search [online]. Further information available at: www.bbc.co.uk/search/ [accessed 25 May 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 25 May 2019]

BCSC Research + Education Document listing – Now REVO [online] and available at: www.revocommunity.org/documents/list [accessed 25 May 2019]

BIFM (British Institute of Facilities Management) – The BIFM is now **IWFM – Institute of Workplace and Facilities Management**. Please refer to IWFM below.

BIM Task Group – The Building Information Modelling (BIM) Task Group support and develop the objectives of the Government Construction Strategy and the requirement to strengthen the public sector’s capability in BIM implementation [online]. **N.B.** This group and programme are now part of the **Centre for Digital Built Britain (CDBB)** [online]. Further information is available at: www.cdbb.cam.ac.uk/AboutDBB/FAQs [accessed 25 May 2019]. Please refer to question 9 – What is the Digital Built Britain Programme? specifically.

BIMForum – The BIMForum’s mission is to facilitate and accelerate the adoption of building information modelling (BIM) in the AEC (Architecture, Engineering and Construction) industry. Further information is available via the BIMForum Website [online] and @ <http://bimforum.org> [accessed 25 May 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 25 May 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 25 May 2019]

BRE (Building Research Establishment) is an independent and impartial, research-based consultancy, testing and training organisation, offering expertise in every aspect of the built environment and associated industries [online]. Further information available at: <https://bregroup.com/about-us/> [accessed 25 May 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 25 May 2019]

BRE Case Studies [online]. Further information is available at: www.bre.co.uk/podpage.jsp?id=1744 [accessed 25 May 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 25 May 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 25 May 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 25 May 2019]

Building talks [online]. Available at: www.buildingtalk.com [accessed 25 May 2019] *Building Talks* is an email newsletter for Architects, Civil Engineers and Building Services Contractors.

C [\[Back to A to Z\]](#)

CABER (Centre for Architecture and Built Environment Research) seeks to develop innovative approaches, procedures, technologies and techniques that support the design, management, reconfiguration, maintenance and operation of buildings, their fabric and the environments they create. **Note:** CABER incorporates the previous Centre for Construction and Property Research

(CPRC). CABER [online] and available @ www1.uwe.ac.uk/et/research/caber.aspx [accessed 25 May 2019]

CBA (Council for British Archaeology) is an independent charity bringing together members, supporters and partners to give archaeology a voice and safeguard it for future generations [online]. Available at: <http://new.archaeologyuk.org/> [accessed 25 May 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 25 May 2019]

CBI Construction Section [online]. Available at: www.cbi.org.uk/business-issues/construction/ [accessed 25 May 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 25 May 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 25 May 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 25 May 2019] the Centre provides discipline based support to enhance the quality of learning and teaching in the UK Higher Education CEBE, **Built Environment community**.

CEM (College of Estate Management) – See **UCEM (University College of Estate Management)**

CIC (Construction Industry Council) – The representative forum for the professional bodies, research organisations and specialist business association in the construction industry [online] and available at: <http://cic.org.uk/> [accessed 25 May 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 25 May 2019]

CIOB Insight Incl. Library and Information Services [online]. Available at: www.ciob.org.uk/library [accessed 25 May 2019]

CIOB – Construction Manager [online]. Available at: www.constructionmanagemagazine.com/ [accessed 25 May 2019]

CIOB – Global Construction Review [online]. Available at: www.globalconstructionreview.com/ [accessed 25 May 2019]

CIOB – Policy and Public Affairs portal [online]. Available at: <http://policy.ciob.org/> [accessed 25 May 2019]

CIRIA – The Construction Industry Research and Information Association and CIRIA Resources [online]. Further information is available at: www.ciria.org/default.aspx [accessed 25 May 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 25 May 2019]

Cities / buildings images database [online]. Available at: www.washington.edu/ark2 [accessed 25 May 2019] is a collection of images of buildings and cities from around the world aimed at students, researchers and educators.

CLH - Community-Led Housing Toolkit: a resource for local authority and housing professionals' [online]. Available at: <https://clhtoolkit.org/> [accessed 25 May 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.

C-Link is a procurement software company who also provide resources (incl. guides, eBooks and other materials) created to help you make more money on your construction project. C-Link [online]. Available at: www.C-Link.com [accessed 25 May 2019]

Constructing Excellence (delivered with bre) is a platform for industry improvement to deliver excellence through clients, industry and users through collaborative working. Resources include publications, tools and newsletter [online]. Available at: <http://constructingexcellence.org.uk/> [accessed 25 May 2019]

Construction Enquirer – The best-read news website in construction [online]. Available at www.constructionenquirer.com [accessed 25 May 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 25 May 2019].

Construction News [online]. Available at www.cnplus.co.uk [accessed 25 May 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 25 May 2019]

Contractors World magazines (incl. **Contractors World International** and **Contractors World UK & Ireland**) are the leading international digital publications. Delivering site reports, equipment reviews and comments of interest on the construction, mining, quarrying and related industries [online]. Available at: <http://cwmags.com/> [accessed 25 May 2019].

COPAC exposes rare and unique research material by bringing together the catalogues of c.90 major UK and Irish Libraries. In a single search you can discover the holdings of the UK's national libraries (including the British Library), many University libraries, and specialist libraries [online]. Further information is available at: <http://copac.ac.uk/> [accessed 25 May 2019]

COTAC (Conference on Training in Architectural Conservation) was formed in 1959 to improve the standard of education of everyone involved in building conservation, including craftsmen, professionals and home owners [online]. Available at: <http://ihbconline.co.uk/cotac2/> [accessed 25 May 2019]

COTAC Digital Bibliography [online]. Available at: www.cotac.org.uk/digital_bib/ [accessed 25 May 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 25 May 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 25 May 2019]. **Note:** CABER (Centre for Architecture and Built Environment Research) mentioned above incorporates the CPRC.

CPRC, UWE Research Repository – Providing immediate world-wide open access to all UWE's research output [online]. Available at: <http://eprints.uwe.ac.uk> [accessed 25 May 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 25 May 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 25 May 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 25 May 2019]

D [\[Back to A to Z\]](#)

The **Design Council** champions great design that improves lives and makes things better [online] and available @ www.designcouncil.org.uk/ [accessed 25 May 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 25 May 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 25 May 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 25 May 2019]

DOAJ (Directory of Open Access Journals) covers all open access scientific and scholarly journals, using a quality control system to guarantee the content [online]. Available at: <https://doaj.org/> [accessed 25 May 2019]

E [\[Back to A to Z\]](#)

The **Economics Network** provides publications, events and other resources to support university teachers of economics throughout the UK and worldwide [online]. Available at: www.economicsnetwork.ac.uk [accessed 25 May 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 25 May 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 25 May 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 25 May 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 25 May 2019]. **ERES Digital Library** [online] and available at <http://eres.scix.net/cgi-bin/works/Home> [accessed 25 May 2019]

G [\[Back to A to Z\]](#)

Great Buildings [Online]. Available at: www.greatbuildings.com [accessed 25 May 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 25 May 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 25 May 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, sustainably, 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 25 May 2019]

The Guardian, Higher Education network [online]. Available at: www.guardian.co.uk/higher-education-network [accessed 25 May 2019]

H [\[Back to A to Z\]](#)

Health and Safety Executive (HSE) – HSE is the national independent watchdog for work-related health, safety and illness. HSE are an independent regulator and act in the public interest to reduce work-related death and serious injury across Great Britain's workplaces [online]. Available at: www.hse.gov.uk/index.htm [accessed 25 May 2019] and **HSE – Health & Safety in the construction industry** [online] is available @ www.hse.gov.uk/construction/ [accessed 25 May 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 25 May 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 25 May 2019]

Heritage Alliance's Heritage Update E-Bulletin [online]. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 25 May 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 25 May 2019]

Heritage Help - Created by the Joint Committee of the National Amenity Societies, Heritage Help offers information and advice on matters related to the management and protection of local historic environments [online]. Available at: <http://heritagehelp.org.uk> [accessed 25 May 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 25 May 2019] and **HEA Knowledge HUB** [online] and available at: www.heacademy.ac.uk/hub [accessed 25 May 2019]

Higher Education Empirical Research (HEER) Database comprises summaries of the latest published research on a range of topics related to higher education [online]. Available at: <http://heer.qaa.ac.uk/> [accessed 25 May 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 25 May 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 25 May 2019]

House Building Careers (part of HBF) – Here you will be able to learn about the home building industry and how it benefits you, your community and the country as a whole [online]. Further information available at: <http://housebuildingcareers.org.uk/> [accessed 25 May 2019]

[\[Back to A to Z\]](#)

ICDE (International Council for Open and Distance Education) – ICDE is the leading global membership organisation for enhancing the quality of open, distance, flexible and online education, including e-Learning [online]. Available at: www.icde.org/ [accessed 25 May 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 25 May 2019]

ICE Virtual Library [online]. Available at: www.icevirtuallibrary.com [accessed 25 May 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 25 May 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 25 May 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 25 May 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 25 May 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 25 May 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 25 May 2019]

IWFM News – discover the latest news affecting the profession and gain expert insight and advice. IWFM News [online] Incl. Digital Magazine, **facilitate** – Informing workplace and facilities management professionals. Available at: www.iwfm.org.uk/news [accessed 25 April 2019] and www.facilitatemagazine.com/news/ [accessed 25 May 2019]

J [\[Back to A to Z\]](#)

JOLT (Journal of Online Learning and Teaching) - The **MERLOT Journal of Online Learning and Teaching** is a peer-reviewed, open-access, online publication that aims to promote scholarship in the use of the Internet and web-based multimedia resource in higher education [online]. Available at MERLOT Journal of Online Teaching and Learning (JOLT): <http://jolt.merlot.org> and <http://jolt.merlot.org/currentissue.html> [accessed 25 May 2019]. **Note:** See MERLOT below.

JournalTOCs is the largest, free collection of scholarly journal Title of Contents (TOCs) [online]. Available at: www.journaltoCs.ac.uk/index.php [accessed 25 May 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 25 May 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 25 May 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 25 May 2019] where you can also gain access to JISC's full digital resources offer.

L [\[Back to A to Z\]](#)

Leeds Beckett University's - Built Environment [CeBE] – CeBE has researched ways to reduce domestic energy use for nearly 20 years [online]. Available at: www.leedsbeckett.ac.uk/research/research-areas/research-areas/built-environment-cebe/ [accessed 25 May 2019]. **CeBE's Virtual Site Gallery** contains construction details, case studies, site photographs, and plant details @ www.leedsbeckett.ac.uk/teaching/vsite/gallery/ [accessed 25 May 2019]

Lexology – A comprehensive source of international legal updates, analysis and insights. Lexology publish in excess of 450 articles every day from over 1,100 law firms and service providers worldwide across 50 work areas in 25 languages. Lexology [online]. Available at: www.lexology.com/ [accessed 25 May 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 25 May 2019]

LGA Knowledge Hub - Knowledge Hub is the public sector's professional social network which helps people in local government connect and share online in a secure environment [online]. Available at: <https://khub.net/> [accessed 25 May 2019]

M [\[Back to A to Z\]](#)

MERLOT – Multimedia Educational Resource for Learning and Online Teaching. The MERLOT project began in 1997, when the California State University Center for Distributed Learning (CSU-CDL) at www.cdl.edu [accessed 25 May 2019] developed and provided free access to MERLOT at www.merlot.org [accessed 25 May 2019]. MERLOT is a curated collection of free and open online teaching, learning, and faculty development services contributed and used by an international education community.

MERLOT Journal of Online Learning and Teaching (JOLT and mentioned above) is a peer-reviewed, open-access, online publication that aims to promote scholarship in the use of the Internet and web-based multimedia resource in higher education [online]. Available at MERLOT Journal of Online Teaching and Learning (JOLT): <http://jolt.merlot.org> and <http://jolt.merlot.org/currentissue.html> [accessed 25 May 2019]. Note: The MERLOT community is joining with the Online Learning Consortium (OLC - formerly Sloan C and mentioned below) to expand scholarly research in the field of online education, with a merger of the Journal Online Learning (formerly JALN) and the Journal of Online Learning and Teaching (JOLT).

N [\[Back to A to Z\]](#)

National BIM (Building Information Modelling) Library, the construction industry's free-to-use resource of the NBS (trading name of RIBA Enterprises Ltd) standard BIM content [online]. Available at: www.thenbs.com/services/our-tools/nbs-national-bim-library [accessed 25 May 2019], NBS homepage is available at: www.thenbs.com/ [accessed 25 May 2019], and NBS Knowledge [online] is available at: www.thenbs.com/knowledge [accessed 25 May 2019]

National Building Specification (NBS) > Home > Publication Index [online]. Available at: www.thenbs.com/PublicationIndex/Publisher/Index?FirstLet=B [accessed 25 May 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 25 May 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 25 May 2019]

National Trust's Land use & planning [online]. Available at: www.nationaltrust.org.uk/what-we-do/big-issues/land-use-and-planning/ [accessed 25 May 2019]

NCE [online]. Available at: www.nce.co.uk [accessed 25 May 2019] is the official website of the **New Civil Engineer**, a weekly magazine published for the ICE.

O [\[Back to A to Z\]](#)

OAJSE (Open Access Journals Search Engine) – An Open Access e-Journal portal. Search for articles in Open Access journals from around the World (excl. India) [online]. Available at:

www.oajse.com/index.html [accessed 25 May 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 25 May 2019]

OER Hub - Open Education Resources, Research Hub – OER Hub gathers research on the impact of open education resources (OER) on learning and teaching practices [online]. Further information is available at: <http://oerhub.net/> [accessed 25 May 2019]

Online Learning Consortium (OLC) – The OLC is devoted to advanced quality online learning by providing professional development, instruction, best practice publications and guidance to educators, online learning professionals and organisations around the world. Further information is available at Online Learning Consortium [online] and available at: <http://onlinelearningconsortium.org/> [accessed 25 May 2019]

OLC's Online Learning – the official journal of the Online Learning Consortium [online]. Available at: <http://onlinelearningconsortium.org/read/> [accessed 25 May 2019]

Open Praxis – Open Praxis (published by the International Council for Open and Distance Education – ICDE) is a peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education [online]. Available at: <http://openpraxis.org/index.php/OpenPraxis/index> [accessed 25 May 2019]

Open University (OU) UK [online] and available at: www.open.ac.uk/ [accessed 25 May 2019]

Open University (OU) UK, Institute of Education Technology [online] and available at: www.open.ac.uk/iet/main/ [accessed 25 May 2019]

ORBEE (Open Resources in Built Environment Education) contains a collection of free, high quality teaching and learning materials for online learning or use in the classroom [online].

P [\[Back to A to Z\]](#)

www.Parliament.co.uk, **Research briefings** produced by the House of Commons Library, the House of Lords Library and the Parliamentary Office of Science and Technology (POST). Parliament, Parliamentary business, Publications and records, Research briefings [online]. Further information is available at: <http://researchbriefings.parliament.uk/> [accessed 25 May 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 25 May 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 25 May 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 25 May 2019]

The Prince's Foundation was created by the merging of The Prince's Foundation for Building Community, The Prince's Regeneration Trust, The Great Steward of Scotland's Dumfries House Trust and The Prince's School of Traditional Arts in 2018. This combined force enables the charity to achieve HRH's goal of creating harmonious communities, through three core tiers [online]. Available at: <https://princes-foundation.org> [accessed 25 May 2019]

PPN (Property People's Network) is open to all interested in land and property and provides a forum to network through a range of social activities and visits [online]. Available at: www.pponline.co.uk/ [accessed 25 May 2019]

Property Week – Commercial property news [online]. Available at: www.propertyweek.com/ [accessed 25 May 2019]

R [\[Back to A to Z\]](#)

Regeneration and Renewal – Placemaking Resources incorporating *Regeneration & Renewal* magazine blog [online]. Available at: <http://regen.net/home/> and www.placemakingresource.com/ [accessed 25 May 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 25 May 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 25 May 2019]

RICS > News & Insights [online]. Available at: www.rics.org/uk/news-insight/ [accessed 25 May 2019]

RICS > Upholding Professional Standards [online]. Available at: www.rics.org/uk/upholding-professional-standards/ [accessed 25 May 2019]

RICS Library services [online]. Available at: www.rics.org/uk/footer/library-services/ [accessed 25 May 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/cgisirsi.exe/0/0/0/60/69/X> [accessed 25 May 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 25 May 2019]

S [\[Back to A to Z\]](#)

Savills Research – Savills Research, Insight & Opinion provides advice and analysis to clients across the UK, with specialists in commercial, residential and rural property research [online] and available at: www.savills.co.uk/insight-and-opinion/research.aspx [accessed 25 May 2019]

Specification Online – the free to use news and online products resource for specifiers working across the architectural and building sector [online] and available at: <http://specificationonline.co.uk> [accessed 25 May 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 25 April 2019]

T [\[Back to A to Z\]](#)

The Telegraph – Property and construction industry: The latest news, analysis and share prices on Britain's biggest construction and property companies [online]. Available at: www.telegraph.co.uk/property-and-construction-industry/ [accessed 25 May 2019]

U [\[Back to A to Z\]](#)

UCEM (University College of Estate Management) is the leading provider of supported distance learning for real estate and construction professionals [online]. Available at: www.ucem.ac.uk/ [accessed 25 May 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 25 May 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 25 May 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 25 May 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 25 May 2019]

UWE, Research Repository (CPRC) – Providing immediate world-wide open access to all UWE's research output [online]. Available at: <http://eprints.uwe.ac.uk> [accessed 25 May 2019].

V [\[Back to A to Z\]](#)

Virtual Training Suite - This website provides a set of free Internet tutorials to help students develop their Internet research skills for a particular University course [online]. Available at: www.vtstutorials.co.uk/ [accessed 25 May 2019]

Z [\[Back to A to Z\]](#)

ZETOC: The monitoring and search service for global research publications, providing access to over 29,000 journals and more than 52 million article citations and conference papers through the British Library's electronic table of contents [online]. Available at: <http://zetoc.mimas.ac.uk/> [accessed 25 May 2019]

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

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