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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.

Subject areas covered include

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



Knowledge Foundations



January 2020

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

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

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

As this is the first Knowledge Foundations for 2020, can I take this opportunity to wish you all a very Happy, Healthy and Prosperous New Year!

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[UCEM to carry out research and deliver CPD training for service Veterans](#)

[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: McVey opens up housing data to aid innovators - The biggest *Placemaking Resource* (incorporating *Regeneration + Renewal*) hitting the news are shared. In this article, combined authority makes £10 million investment in Knowsley Council's plans to regenerate town centre.

Case Study: Developing homes on a former industrial site

Analysis: Tackling inequality through place shaping

'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:

- **General Data Protection Regulation (GDPR) - [What's new in November 2019?](#)**
- [Related resource links and further information on Data Protection](#) Incl. What we're doing at UCEM; Construction firms hit by cyber-attacks, the National Cyber Security Strategy, and more.

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 the Grenfell Tower Inquiry

- [Government drops Grenfell contractor in sudden U-turn](#), and
- GOV.UK – [Information relating to the fire at Grenfell Tower](#).

Other News and Views cont.

[ICMS 2 will impact life-cycle analysis for constructed assets](#)

[Chartered Institute of Building \(CIOB\) responds to UK construction output figures for October 2019](#)

[GOV.UK Research and statistics](#) – access to the 'Independent report: HS2 Construction Commissioner's report 10'

Skills agenda – [Post Brexit skills shortages to push up tender prices by 4%](#)

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

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

[Women in the construction sector](#) – Women joining surveying profession in increasingly greater numbers

Brexit/Brextension – [Get ready for, and Life after Brexit](#)

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

Latest research from CBRE – [Smarter Cities 2025](#)

[High Streets in Great Britain – ONS releases data analysis and interactive maps](#)

Royal Institution of Chartered Surveyors (**RICS**) **Knowledge and research, January 2020** – [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](#) incl. RICS UK Construction and Infrastructure Market Survey: Q3 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 –

- [Chartered Institute of Building \(CIOB\) surveys the built environment sector to gather data on mental health and stress](#)
- [Revaluinq 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.

[Making a sustainable community: life in Derwenthorpe, York, 2012-2018](#), and access to the 'JRF Framing toolkit: Talking about poverty'

[A Minimum Income Standard for the United Kingdom in 2019](#) - Latest research from Loughborough University and funded by JRF

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

UK Property Research – Latest research from Savills UK incl.

- [UK Property Research](#) - *Valuing Britain 2018*
- [Planning and Development](#) – Publication | *Planning policy update: Why is new home delivery failing to measure up?* – December 2019
- [Residential research](#) – Publication | *Market in Minutes: Canary Wharf Residential* – December 2019
- [Commercial Investment](#) – Publication | *Nordic Logistics Outlook 2020* – December 2019
- [Rural Research](#) – Publication | *Spotlight: Farm Diversification* – November 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](#)
- [CIOB response to the 'Building a Safer Future: Proposals for reform of the building safety regulatory system' consultation](#)
- [Press Release: Combined Action Needed to Tackle Severe Skills Shortages](#)
- [Construction and the Modern Slavery Act: Tackling Exploitation in the UK](#)

Latest information on Apprenticeships incl.

- [Apprenticeships starts rise for first time since levy launch](#)
- [Apprenticeship funding: how it works](#)
- [Develop talent for your business](#) - Further information on UCEM Apprenticeship programme
- [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’, and for 2019 – Grenfell
- [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 2020 Latest Edition –

- [CIS Insight](#) (2020 Latest Edition) – ‘CIS 2019 – a summary of changes’ - In this article, *CIS Insight* talk about the summary of changes that have taken place in the last year incl. New Building Regulations Insight areas, Expanded content range, and Improve search functionality,

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

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

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

Gain access to the latest SI research reports incl.

- [Safe as Houses 3: Have government reforms to Universal Credit reduced the rent arrears of Southwark’s tenants?](#)
- [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, 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), a charity that works to preserve and protect historic places and spaces – for ever, for everyone

- [NT - Big Issues and their views](#), Incl. Brexit and the future of farming; Phasing out single use plastics; NT response to HS2; Stonehenge A303 Road Improvement Scheme, and more.
- [Planning and Infrastructure](#) - 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 at a local level.

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

[Foster + 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](#) – Technology: Free embodied carbon calculator to help move to greener buildings.

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

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

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

Read the most talked about articles in Education!

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

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

...and finally

[When council estates were a dream – 100 years of the council estate.](#)



Property and Construction Statistics

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

- [RICS UK Economy and Property Market Chart Book](#) (Q4, 2019) – Economic growth will remain lacklustre for the rest of the year
- [UK Residential Market Survey](#) (November 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: October 2019 and new orders July to September 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, Great Britain: 2018](#) (Latest release – 18 October 2019) - Latest Construction Statistics release from ONS

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

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

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



e-Journal review

- RICS [Modus](#) Digital Magazine – November 2019: The Smart 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](#), November 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 (October, 2019) – The e-Bulletin provides current awareness and industry news over a number of built environment-related fields incl. 'November#HeritageChat – Engaging 16-24 year olds with heritage'; 'Heritage Debate 2019: Reaching For Net Zero'; 'Robert Jenrick MP (MHCLG) Launches a Programme to Protect More Local Heritage Buildings'; 'The Heritage Alliance Briefs MPs Ahead of Environment Bill Reading'; 'Lord Devon's Speech at the House of Lords Supports Heritage Sector'; 'The Intellectual Property Office Issues Guidance on "Changes to Copyright Law After Brexit"; 'Historic England publishes "Statements of Heritage Significance: Analysing Significance in Heritage Assets"', 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 (July - September 2019) incl. 'Do tutors make a difference in online learning? A comparative study in two Open Online Courses'; 'Correlation between familial roles and persistence of female students on distance education programmes in Ghana: Through the lens of an administrator'; 'Student Perceptions of Open Pedagogy: An Exploratory Study'; 'Innovative Arts-Based Learning Approaches adapted for Mobile Learning'; 'Developing Open Practices in Teacher Education: An Example of Integrating OER and Developing Renewable Assignments'; 'Book Review of Responsive Open Learning Environments: Outcomes of Research from the ROLE Project', and more.
- [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 4 (2019)) incl. : **Highlighting the Best Papers from the OTL SIG AERA 2019 Special Issue [S.I.]** incl. 'Effects of Online Course Load on Degree Completion, Transfer, and Dropout among Community College Students of the State University of New York'; 'How College Students' Achievement Goal Orientations Predict their Expected Online Learning Outcome: The Mediation Roles of Self-Regulated Learning Strategies and Supportive Online Learning Behaviours'; 'Evaluating Online Learning Orientation Design With A Readiness Scales'; 'Characterising MOOC Pedagogies: Exploring Tools and Methods for Learning Designers and Researchers'; 'A professional learning program for novice online teachers: A plication of professional development guidelines using threshold concepts and online learning perceptions', 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)

- Managing Diversity and Inclusion in the Real Estate Sector
- Studying at a Distance
- The new landscape of mobile learning: Redesigning education in an app-based world
- Rethinking Pedagogy for a Digital Age, 2nd edition
- Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education
- ADDING SOME TEC-VARIETY: 100+ Activities for Motivating and Retaining Learners Online
- Blended Learning in Action: A Practice Guide Toward Sustainable Change

The Directory of Open Access Books (DOAB)

[Latest Published Books and Journal Titles](#)



Information Governance incl. © Guidance and Data Protection

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

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

[Latest Copyright News](#) – The Intellectual Property Office Issues Guidance on “Changes to Copyright Law After Brexit”

[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. [Jisc Library Hub Discover \(formerly COPAC*\)](#) – Jisc Library Hub Discover 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. This new service is being built on the Jisc National Bibliographic Knowledgebase, whilst the new interface development is part of wider Jisc Library Services redevelopment activity.



[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!

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

House building careers

Access to: RICS Careers

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

[LATEST: Hot Topic Highlight – RICS Guidance Note, Valuation of Development Property](#)

- Property Elite's latest blog post takes a closer look at some of the topics and questions they have received over the past few months (see publication date) in relation to the RICS requirements for the final assessment submission. Here Property Elite takes a look at the new RICS Guidance Note, Valuation of Development Property (1st Edition, October 2019). This replaces the former Valuation Information Paper (VIP) 12, Valuation of Development Land. Also, essential reading for RICS APC and AssocRICS candidates on a range of pathways, including Planning and Development. Access below is also provided to the audio version of the blog. 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.

[UCEM's Sustainability Hub](#)



[Useful web-links](#)

Welcome to *Knowledge Foundations*

– 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 September 2019]. It is also featured within a fortnightly Information News blog [UCEM Website Home > News & Events > Blog > Lucy Roper's weekly Built Environment news round-up] @ www.ucem.ac.uk/news-events/blog/ [accessed 2 January 2020] "The title of *Knowledge Foundations* reflects the importance of laying the foundations upon which to build and increase knowledge that will help you succeed and assist with continual professional development (CPD)" (Roper 2019).

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Latest UCEM news

100 years of UCEM &

New edition of Parry's Tables published to mark UCEM's centenary year



Richard Parry's timeless book *Parry's Valuation and Investment Tables* has been republished to mark UCEM's centenary year.

The book – an essential guide for valuation and property professionals and students alike – [celebrated its own centenary six years ago](#) and the 14th edition was published in 2019 in recognition of Parry's role as the institution's first Principal.

World-renowned publisher, Routledge, approached UCEM to produce the 14th edition to celebrate the longevity of Parry's indispensable tome and several staff members worked diligently to bring the project to completion.

Parry's Valuation and Investment Tables is still in widespread use by practising surveyors and students throughout the world – a tribute to the historical importance of Parry's original vision and continued legacy.

Copies of the book – both online and in print – are available from [Routledge's website](#).

For more information, visit

UCEM (2020) '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 2 January 2020], and

UCEM (2020) – 'New edition of Parry's Tables published to mark UCEM's centenary year' [UCEM Website > Home > News & Events > News > New edition of Parry's Tables published to mark UCEM's centenary year] UCEM Website [online] 23 December. Available at: www.ucem.ac.uk/news-events/news/new-edition-of-parrys-tables-published-to-mark-ucems-centenary-year/ [accessed 2 January 2020]

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Amanda Clack becomes UCEM Chair Designate

CBRE Head of Strategic Advisory and former RICS President, Amanda Clack, will become UCEM Chair of the Board of Trustees.

Amanda, who has held a variety of high-profile roles within the Built Environment and was appointed to UCEM's Board last year (2018), will formally take over as Chair in January 2021.

Her appointment was approved at a Board meeting on Friday (22 November) where she was named Chair Designate with immediate effect as she prepares to step into the role as the current Chair, John Gellatly, completes his term of office.

Amanda commented: "I am honoured to be appointed Chair Designate ahead of becoming Chair next year as UCEM further its vision to be the Centre of Excellence for Built Environment Education.

"I have known UCEM for a long time through my roles at RICS and CBRE, and was delighted to join the Board last year, where I have been able to learn more and contribute to the next phase of the institution's long-term roadmap.

"The new vision focuses on increasing UCEM's impact and influence, and I feel that I will be able to increase the institution's traction in both areas. There is a large focus on widening participation which is something I am truly passionate about, having recently co-written a book on promoting greater diversity and inclusion in real estate.

"It's an exciting time for UCEM and I am relishing the opportunity to make a positive difference as UCEM embarks upon its second century."

UCEM Principal, Ashley Wheaton, added: "I am delighted that Amanda will become our Chair of the Board of Trustees. In the short time that she has been on our Board, she has developed a detailed knowledge of the institution and contributed fantastic ideas, befitting of her excellent CV in the Built Environment.

"I know Amanda will do a fantastic job to promote UCEM and drive all that we do, building on the wonderful work John has done during a period of rapid and long-lasting change for the institution."

John Gellatly will continue as Chair for the next 12 months as he steers Amanda through the handover process and carries on driving UCEM's vision.

He said: "I have thoroughly enjoyed my time as UCEM Chair which has covered the institution gaining full independence, a landmark premises move, the opening of our APAC HQ and, of course, our centenary year.

"There has rarely been a dull moment since joining the team and I am hugely proud of the progress made by UCEM throughout my time as Chair, flanked by an inspiring group of Trustees, including our Principal who has led the institution with great ability and energy for the past six years.

“My work is not done yet and it will be a privilege handing the baton on to Amanda and discussing with her the role in greater detail over the next 12 months. I have every faith that Amanda will be a fantastic Chair and continue to deliver on the progress being made by UCEM as we embark on our second century.”

As well as being CBRE Head of Strategic Advisory, Amanda is the Managing Director for Advisory across EMEA, supporting clients on their strategic real estate agenda and is a Member of the firm’s UK board. She is a Past President of RICS, becoming the longest-serving in the institution’s history, and is a published author and speaker on areas such as strategy, digital, cities, placemaking, real estate and the war for talent. She is a strong voice on diversity and inclusion in the sector, is a Trustee of the Chartered Surveyors Training Trust, and is also a Court Assistant of the Worshipful Company of Chartered Surveyors. Amanda is a Fellow of the RICS, APM, the Institute of Consulting and the RSA.

Additionally, Amanda received an Honorary Doctorate of Science from the University of Westminster this week (see publication date) for her outstanding contribution to building safety and diversity and inclusion in the Built Environment through the university’s School of Real Estate and Construction. She is a Certified Management Consultant and Companion of the Institute of Management and previously, she was a Partner at EY LLP and PwC LLP.

Further information is also available at:

UCEM (2019) ‘Amanda Clack becomes UCEM Chair Designate’ [UCEM Website Home > Home > News & Events > News > Amanda Clack becomes UCEM Chair Designate] UCEM Website [online], 26 November. Available at: www.ucem.ac.uk/news-events/news/amanda-clack-becomes-ucem-chair-designate/ [accessed 2 January 2020]

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100 volunteers reached in our centenary year!

Exactly 100 employees have given something back to organisations in Reading as part of UCEM’s centenary volunteering programme.

The number of staff volunteers hit 100 at the final centenary volunteering event at Cedar Court where they tidied the patio and led on crafts activities and games for the residents.

The volunteering at Cedar Court followed events at Purley Park Trust, Launchpad and Courage Park with staff invited to take part in each.

Cedar Court – 15th October

Marking UCEM’s centenary year, the volunteering programme was devised to make a difference to the local community and highlight the staff benefit of a charity day which can be taken as a normal working day once a year.

UCEM Deputy Principal, Jane Fawkes, commented: “It’s very apt that, in our 100th year, 100 employees have taken part in our volunteering programme.

“The programme has worked perfectly, and to get that level of engagement with the volunteering events is testament to the staff here. I feel that it has focused minds on looking after community spaces and making a difference to those less fortunate and in need of support, and it has been a joy reading about, and taking part in, the programme.

“not only has it increased awareness and support of volunteering initiatives, but it has brought us all closer together by working with colleagues across teams doing something completely different. I couldn’t be happier with how it has gone, and I hope the experience will encourage more people to take advantage of our charity day going forward.”

Further information is available at:

UCEM (2019) ‘100 volunteers reached in our centenary year!’ [UCEM Website > Home > News & Events > News > 100 volunteers reached in our centenary year!] UCEM Website [online] 1 November. Available at: www.ucem.ac.uk/news-events/news/100-volunteers-reached-in-our-centenary-year/ [accessed 2 January 2020]

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Surveying talent pipeline and smart cities discussed at UCEM's Hong Kong centenary event

More than 200 guests assembled in Hong Kong on Tuesday [22 October] to celebrate UCEM's centenary year. Attendees from the sector, many of whom were UCEM alumni, joined a selection of staff from the institution at The Grand Assembly Hall in Tsim Sha Tsui to hear speeches from Sr Dr Tony Leung and Tony Tse.

Tony Tse – a Member of the HK Legislative Council for Architecture, Surveying, Planning and Landscape – gave the keynote speech on UCEM's centenary theme of 'The Built Environment of the Future'.

Tony advocated the growth of smart cities to help alleviate the challenges posed by the significant population growth and urbanisation in Hong Kong and develop the city into a better place to live and work.

He told the guests: "By leveraging Big Data and using innovative technologies and new thinking, smart city planning can enable optimal use of space, provide sustainable housing which fits seamlessly with transport systems, energy infrastructure and amenities, improve pedestrian and road traffic congestion with the aid of intelligent systems, and reduce energy consumption with environmental-friendly designs.

"To enhance the quality of our built environment, the effectiveness of city management and life quality as well as Hong Kong's sustainability, efficiency and safety, we should adopt a new mindset to make Hong-Kong a smart city."

Sr Dr Tony Leung – the President of the Hong Kong Institute of Surveyors (HKIS) – then gave a talk on the future of the surveying profession in Hong Kong, focusing on recruiting new talent to support the industry.

He said: "Surveyors have played a key role in developing Hong Kong from a fisherman's village to the international city it is today. That is why HKIS has long been a partner of UCEM in the preparation of future surveyors for building the future of Hong Kong.

"Professional support of surveyors is needed for large-scale infrastructure projects like the construction of new railway lines, new development areas as suggested by HK 2030+, and Lantau Tomorrow Vision. Bringing in quality new blood to our surveying profession is a key factor to maintain the sustainable growth of the development of Hong Kong. The HKIS looks forward to seeing more new faces in our profession which will continue to contribute to the development and betterment of society."

Earlier, the Head of APAC Office and Director, UCEM Asia Ltd, Robert Chan has welcomed attendees to the event and UCEM Principal, Ashley Wheaton, addressed the guests.

Reflecting on UCEM's journey and activity in Hong Kong, Ashley remarked: "Hong Kong occupies a unique place in UCEM's history. Nowhere else in the world are there so many of our alumni in influential positions in the surveying profession. Nowhere else outside the UK do we have such a vibrant community of students. We were delighted to open a dedicated UCEM office in Admiralty four years ago so that we could increase our support for our Hong Kong students. We now have over 450 current students in Hong Kong, some of whom are representing the student body here tonight.

"As we embark on our second century, our core purpose remains as strong as ever: to provide accessible, relevant, cost-effective education, enabling students to enhance their careers, increase professionalism and contribute to a better built environment. Starting in our Centenary year we will now begin the transition to a new vision: "To be the Centre of Excellence for Built Environment Education'.

"By maximising both our impact and influence on education and industry we will ensure that UCEM is seen as the obvious choice of institution for Built Environment qualifications."

For further information, please visit

UCEM (2019) 'Surveying talent pipeline and smart cities discussed at UCEM's Hong Kong centenary event' [UCEM Website Home > News & Events > News > Surveying talent pipeline and smart cities discussed at UCEM's Hong Kong centenary event] UCEM Website [online], 25 October. Available at:

www.ucem.ac.uk/news-events/news/surveying-talent-pipeline-and-smart-cities-discussed-at-ucems-hong-kong-centenary-event/ [accessed 2 January 2020]

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UCEM to carry out research and deliver CPD training for service Veterans

UCEM has teamed up with Lendlease to deliver online learning modules about the construction industry for Veterans.

This is part of the CITB's Pathways into Construction programme with BuildForce, focusing on the Veteran cohort.

The institution will work with employers and Veterans to scope out modules to help ex-services personnel access a career in construction.

Following the completion of the research, including an online survey to gain feedback from Veterans and employers, UCEM will develop five mini training modules. There will be an 'Introduction to the Construction Industry' learning module to provide greater understanding of the industry, as well as four mini modules outlining career road maps in construction project management, quantity surveying (commercial management), building surveying in construction and construction site management.

UCEM Principal, Ashley Wheaton, commented: "I am delighted that we are taking the lead in providing online learning modules for Veterans about the construction industry. BuildForce does such great work in plotting career paths for service leavers within the construction industry and I am glad that we can add our name to the list of industry partners the programme works with to support both personnel and the industry.

"I hope the modules we create are accessed by Veterans with an interest in construction and that it's a success for all parties.'

BuildForce Chair, Angela Forbes, added: "BuildForce is delighted to be collaborating with UCEM in the compilation of these bespoke construction modules. They are a great addition to the BuildForce service and allow us to showcase the disciplines available in construction.

"This partnership brings the added value of directly linking those who wish to further their education. UCEM offers a host of construction related degrees and these modules offer an insight into what's available."

The modules will be available to access in April via UCEM'

By visiting the below-mentioned source link you can gain access to the list of UCEM attendees with their titles and years of service.

For further information please visit:

UCEM (2019) 'UCEM to carry out research and deliver CPD training for service Veterans' [UCEM Website Home > News & Events > News > UCEM to carry out research and deliver CPD training for service Veterans] UCEM Website [online] 24 October. Available at: <https://www.ucem.ac.uk/news-events/news/ucem-to-carry-out-research-and-deliver-cpd-training-for-service-veterans/> [accessed 2 January 2020]

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



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

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

As part of the acquisition, Building People founder, Rebecca Lovelace, has joined UCEM as an employee and will continue to advance the work of the technology platform and network, enabling and connecting an ecosystem of existing employment and skills providers with employers and jobseekers. Part-funding will now come

directly from UCEM as part of the institution's every-growing focus on widening access to opportunities across the Built Environment.

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

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

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

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

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

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

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

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

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

To find out more about **Building People** and get involved, visit Building People website [online]. Further information is available at: <https://buildingpeople.org.uk/> [accessed 2 January 2020]

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 2 January 2020]

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Other UCEM News stories incl.

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



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

UCEM (2018) 'UCEM's Built Environment Skills Summit report demands the UK rises to the challenge', 31 January [UCEM Website > Home > News & Events > News > UCEM's Built Environment Skills Summit report demands the UK rises to the challenge] UCEM Website [online]. Available at: www.ucem.ac.uk/news-events/news/ucems-built-environment-skills-summit-report/ [accessed 2 January 2020]

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

'Online, Flipped, Blended Approach to Apprenticeship Education: A case study of UCEM's Surveying Technician Diploma', presented at the World Conference on Online Learning [online], 6-19 Oct, Toronto. For further information on this innovative project and to access the case study in full please [Click Here](#). [accessed 2 January 2020].

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/ucem-centenary-activity-boosted-by-national-lottery-grant/ [accessed 2 January 2020]

See also: CIOB – Chartered Institute of Building website [online]. Available at www.ciob.org/masterminds-construction [accessed 2 January 2020]

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.



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Other news

Things you need to know this week: Liverpool City Region backs Kirkby revamp

'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, combined authority makes £10 million investment in Knowsley Council's plans to regenerate town centre.

This and other stories incl.

- **Liverpool City Region Combined Authority is to support Knowsley Council's plan to regenerate Kirkby town centre with a £10 million investment.** The council finalised the purchase developer St Modwen's assets in the town centre in November. It is aiming to bring forward plans for a new Morrisons store, nine retail units, restaurants and car parking. The combined authority is to invest 310 million from its single investment fund to back the council's purchase and has set aside a potential £5 million for further regeneration of the town centre.
- **More than 400,000 homes could be delivered through the 49 garden communities planned under the government's present programme, but only a third of homes have secured planning consent to date, research has shown.** Analysis by planning consultant Lichfields has found another third are in emerging plans, while a further 30 per cent had yet to achieve formal planning status. As a result, the consultant concludes that delivery will not reach critical mass until the 2030s, when the garden communities could be delivering 16,000 homes a year. The report, [How does your garden grow? – a stock take on planning for the government's garden communities programme](#), also questions whether there is a sufficiently clear

understanding of what a garden community is intended to represent, and says that there is currently little basis to make a comparative assessment of the quality of places being created through the programme.

- **East Anglian housebuilder Hopkins Homes has done a deal with affordable housing provider Flagship Group to deliver 240 one to four-bedroom apartments, bungalows and houses.** Norwich based Flagship will deliver 60 affordable homes, including rented, shared ownership and open market sale properties.
- **Halifax's refurbished listed Piece Hall has added more than £26 million to Calderdale's economy since it re-opened two years ago, according to a recent analysis.** The research, by consultant Bradshaw Advisory, found that The Piece Hall Trust's activities are returning £5.30 to the local economy for every £1 spent to run the building. The refurbishment, which was backed by Calderdale Council and National Lottery Heritage Fund, was intended to make the building the key driver for wider economic regeneration of Halifax and Calderdale. The report, [The economic and reputational impact of the regeneration of The Piece Hall](#).
- **A department store building in Romford, Essex, with potential for mixed user redevelopment, has been sold to an as yet unnamed developer.** Property consultants Savills and CBRE sealed the deal on the 21,188 square metre building, which is occupied by retailer Debenhams. The building fronts Market Place in the main shopping district of Romford and is close to both its Liberty Shopping Centre and Brewery Shopping Centre. Mark Garmon-Jones, head of Savills shopping centre investment and repurposing, adds: "We are seeing considerable appetite for redevelopment and repurposing opportunities as investors and developers look to unlock the latent value in retail centres and assets in greater London and across the rest of the UK."
- **The cooling towers for the former Ironbridge Power Station, in Shropshire, have been demolished as the site is prepared for redevelopment.** Developer Harworth is evolving its masterplan for the site, with current plans including 1,000 homes, as well as commercial, leisure and community uses.

Source: Smit J (2019) 'Need to know: Liverpool City Region backs Kirkby revamp', **Placemaking Resource** (incorporating *Regeneration + Renewal*) [online] 11 December. Further information available at: www.placemakingresource.com/article/1668452/need-know-liverpool-city-region-backs-kirkby-revamp [accessed 2 January 2020]

Related Links:

Lichfields (2019) 'How does your Garden Grow?', Insight, Lichfields [online], 6 December. Further information is available at: <https://lichfields.uk/content/insights/how-does-your-garden-grow> [accessed 19 December 2019]

The Piece Hall (2019) 'The Piece Hall Boost Local Economy by £26m according to new Independent Research', The Piece Hall [online], 5 December. Further information is available at: <https://thepiecehall.co.uk/article/the-piece-hall-effect> [accessed 19 December 2019]

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Case study: [Developing homes on a former industrial](#)

Hull's Citywide Developer Partnership has broad-ranging objectives that include not only the delivery of new homes, but also the provision of training and employment opportunities to help improve the potential of local people and places. Delivery of the programme's overall target – to generate up to 4,000 new homes over 13 years – is in the hands of a consortium of developers, known as KSHP, which comprises housebuilders Keepmoat Homes and Strata Homes, affordable housing provider Home Group and commercial property business Priority Space, working in partnership with Hull City Council.

The partnership allows difficult sites to be brought forward collaboratively, the backing of the council giving KSHP the confidence to take on challenging opportunities and acting as a catalyst to deliver training and apprenticeship opportunities through the housebuilding process.

Keepmoat last month (see publication date) completed its latest project under the partnership, which involved redeveloping the former Greif Industrial Estate with 162 homes and, at the same time, changing market perceptions and improving life chances in a deprived area of the city.

Challenges

The 4.7-hectare industrial estate faced a number of barriers to development, including significant remediation costs due to its former factory use, expensive foundations solutions due to the area's ground conditions and large flood mitigation measures. These high costs – alongside the restricted sales values of the local market – meant there was a £1.7 million gap in the scheme's financial viability, which needed to be bridged to ensure delivery of the site.

Solutions

In order to overcome the viability gap, Keepmoat worked with the council to secure public funding, with Humber Local Enterprise Partnership (LEP) investing the £1.7 million needed to help bring forward the scheme.

The development, called Alexandra Gardens, incorporates 47 new homes for social rent by the council. The overall housing mix includes a variety of two- and three-bedroom house types, reflecting local market demand and facilitating access for young people and first-time buyers. The scheme, created by Keepmoat working with architect JTP, also has a central open space, which provides a hub for the community.

KSHP's dedicated social and economic impact manager worked with the council. Local colleges and sub-contractors to create opportunities for local people. It has been estimated that the development has generated more than £2.7m of social value in all, its achievements including the employment of 12 full time apprentices and the safeguarding of a further 94 full time equivalent jobs. A community fund set up by Keepmoat has invested in and supported a range of local charities and community groups.

Councillor John Black, portfolio holder for housing at Hull City Council, has spoken of the part the partnership plays in enabling transformation. "The council is delivering its ambition to offer a wider choice of good quality affordable housing and transform neighbourhoods into attractive and sustainable residential areas," he said. "Alexandra Gardens ticks all the boxes, including provision of council homes for rent, which is integral to our new build programme.

Further information is available at:

Source: Smit J, (2019) 'Case Study: Developing homes on a former industrial site', **Placemaking Resource** (incorporating *Regeneration + Renewal*) [online], 11 December. Further information available at: www.placemakingresource.com/article/1668462/case-study-developing-homes-former-industrial-site [accessed 2 January 2020]

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Analysis: [Tackling inequality through place shaping](#)

- Development could do more than provide new homes, workspace or leisure facilities; it could be part of a collaborative effort to address inequality. The author of this article finds out how.

Ending austerity and addressing wealth inequality have been recurring themes in the soundbites of politicians in the run up to the general election, which is hardly surprising given the state of the nation. As Andrew Carter, chief executive of think tank Centre for Cities, warns, "The disparities between places are large, persistent and getting worse, which should give us pause when thinking of policy responses."

Politicians' statements have concentrated largely on money, and specifically taxes, but the challenges of left behind and deprived areas run deep. The Ministry of Housing, Communities and Local Government's 2019 assessment of local deprivation, the English Indices of Deprivation, takes on board factors including health deprivation and disability, barriers to housing and services, living environment and crime, giving greater weighting to income and employment.

A new report by consultant Mace highlights seven 'spheres of influence', which it considers critical factors in tackling inequality and creating a thriving place. The factors are: health, community education, economy, housing, infrastructure and security. "Inequality is often considered in terms of income, but it is wider than that, involving access to healthcare, public transport and even the quality of the natural environment," says Jason Millett, chief operating officer at Mace.

The consultant's findings were informed by a survey of 2,000 people across the UK, carried out by polling specialist Survation. This found that local health facilities were people's top priority when thinking about where to live, followed by low crime and visible policing, good transport links and job opportunities. The consultant also looked in detail at GP services, finding wide variations in GP distribution across clinical commissioning group areas. The top three rated areas overall for healthcare in England (Wandsworth, Lambeth and Richmond in London) had almost twice as many GPs per head of population – 94 per 100,000 people – as the bottom three (Lincolnshire East, South West Lincolnshire and Mid-Essex), which had 47. It says dealing with that inequality, to provide 94 GPs per 100,000 people across the country, would require an additional 14,000 GPs.

The way ahead

The overarching solution, says the consultant, lies in a collaborative multi-agency approach, with beefed up development corporations improving the invest ability of an area and supporting placemaking interventions. The report, **Joining the dots: Moving beyond place to help solve the UK's inequality problems**, also recommends tapping into international capital and loans from government agency Home England – the latter with placemaking conditions attached – to fund transformation and an accelerated planning process for proposals meeting placemaking requirements.

Some private sector players are already aware of the importance of place, not for philanthropic purposes but for sound commercial reasons. Private rented sector provider Sigma Capital Group, which works with local government partners to deliver family housing for rent, has place based priorities for its developments. “We need to be near a primary school, and will invest in it, we need to be near transport with a preference for fixed rail or tram and ideally we want to have a big employer located close by,” says Duncan Sutherland, group regeneration director of Sigma Capital.

Developer British Land has signed up to a social regeneration charter for its Canada Water masterplan, a 46,000 square metre mixed use scheme, which focuses not only on fostering local employment but on such areas as tackling social isolation among young people. “We’ve been bad at monitoring our performance in the past and we need to get better,” says Emma Cariaga, joint head of Canada Water and member of the executive committee at British Land. “The charter will allow us to measure how inequality changes through development of the site and recalibrate where needed. If we can crack it there’s a broad benefit for the industry.”

It is no accident that both Sigma Capital and British Land are stewards, whose business approach relies on ongoing income. This is the direction of travel for the real estate sector, says Yolande Barnes, chair of the Bartlett Real Estate Institute, University College London. “It is not just land and money that creates place value, it is the interaction of people, land and money. We have to stop thinking about product and units and start thinking about creation of neighbourhoods.”

Further information is available at:

Smit J (2019), ‘Analysis: Tackling inequality through place shaping’, Placemaking Resource, Incorporating *Regeneration and Renewal* [online], 26 November. Available at:

www.placemakingresource.com/article/1667003/analysis-tackling-inequality-place-shaping [accessed 2 January 2020]

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Estates Gazette’s ‘News from the nationals’

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

Estates Gazette (2017) ‘News from the nationals’ [online]. Further information is available at:

www.egi.co.uk/news/ [accessed 2 January 2020]

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Latest Data Protection News & Research:

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 (ICO) website has a **What’s new** section that is updated on a regular basis to highlight and link to any changes as they occur, for example:

November 2019 – The ICO has published **detailed guidance on special category data** and updated the **Guide page on special category data**. The ICO has also published a **template appropriate policy document**. This is required by many of the DPA 2018 schedule 1 conditions for processing.

In addition to this, the ICO has published a template **Part 3 appropriate policy document**. The ICO has updated the **conditions for sensitive processing** and **principles** pages in the Guide to Law Enforcement Processing to provide further guidance on the Part 3 appropriate policy document.

September 2019 - The ICO has published guidance on [manifestly unfounded and excessive requests](#) under the Guide to Law Enforcement Processing.

August 2019 – The ICO has updated their position on how to calculate the time limit for responding to requests (in relation to Individual rights) following a determination made in a Court of Justice of the European Union (CJEU) case which has been adopted by the European Data Protection Board (EDPB). The ICO have also added guidance on the meaning of ‘manifestly unfounded or excessive’. The following pages have been updated incl.

- Right of access;
- Right of rectification;
- Right to erasure;
- Right to restrict processing;

- Right to data portability; and
- Right to object.

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 2 January 2020]

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Related resource links and further information on Data Protection:

- **In relation to UCEM**

At 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 2 January 2020]

- **What is GDPR?**

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

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

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 2 January 2020].

- **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 2 January 2020]

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

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 2 January 2020]

- **National Cyber Security Strategy: Progress Report**

- The National Cyber Security Strategy 2016 to 2021 and progress so far against its strategic outcomes.

The National Cyber Security Strategy 2016 to 2021 set out the government's plan to make Britain secure and resilient in cyberspace. A progress report has now been published, which outlines the progress the Government has made, and the impact on their interventions so far against its strategic outcomes. The report focuses on both the power of technology for the benefit of citizens, but also sets out Government's commitment to understand and tackle issues surrounding cyber security.

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

GOV.UK, Cabinet Office, and National security and intelligence (2019) **Policy paper: 'National Cyber Security Strategy 2016 to 2021 and progress so far'** [GOV.UK Home > Government > Cyber security] GOV.UK [online]. Available at: www.gov.uk/government/publications/national-cyber-security-strategy-2016-to-2021-progress-so-far [accessed 2 January 2020]

- **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.

Source: Department for Digital, Culture, Media and Sport (2019) 'DCMS blog' [online]. Available at:

<https://dcmsblog.uk/> [accessed 2 January 2020] and

https://dcmsblog.uk/2019/01/data_protection_and_brexit_is_your_organisation_prepared/ [accessed 2 January 2020]

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)?**

Heritage Update e-Bulletin [online], Issue **No 386**, 31 January 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2020]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 January 2020].

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Grenfell Tower - Latest developments / outcomes from Grenfell Tower Inquiry

Government drops Grenfell contractor in sudden U-turn

- Housing secretary backtracks on allowing Rydon to bid for public contracts after outcry

The government has told the main contractor for the Grenfell Tower refurbishment to stop bidding for public contracts, in an abrupt U-turn days after angering survivors by naming it on a list of recommended companies for high-rise housing.

The housing secretary, Robert Jenrick (see publication date) said in November 2019 that Rydon should no longer bid for projects until it was established what caused the fire on 14 June 2017, which claimed 72 lives.

The government had named the Sussex-based construction business on a list of 12 companies [recommended to public bodies](#) for works on high-rise residential buildings in the south of England, which some of the bereaved and survivors described as adding "insult to injury".

The Cabinet Office said only companies convicted of an offence could be excluded from bidding for work, and EU procurement rules meant it could not legally preclude Rydon.

Jenrick effectively executed the U-turn when he responded on Twitter to a critical statement from Grenfell United, which represents the bereaved and survivors.

Rydon Maintenance Ltd, part of Rydon Group Ltd, was the main contractor on the £10m project completed in 2016, part of which involved cladding the tower in panels the public inquiry into the disaster concluded were the main cause of the fire spread. The inquiry also found the works [breached building regulations](#).

The Metropolitan police are carrying out a [complex criminal investigation](#) into the construction, refurbishment and management of the tower and the emergency response, as well as investigating possible corporate manslaughter, individual gross negligence manslaughter and health and safety offences.

Rydon reported a £16.6m post-tax profit in 2018, more than double the previous year, when the Grenfell disaster happened.

The mayor of London had earlier banned Rydon from participating in a similar framework agreement for housebuilders in the capital.

Rydon had qualified as one of 30 companies recommended for use by public bodies across the capital, but Sadiq Khan issued a mayoral direction ordering the company's suspension until the public inquiry into the disaster "has reported on the extent to which any Rydon group companies or employee contributed to causing or exacerbating the Grenfell Tower fire". This is not expected until at least late 2021.

Rydon declined to comment, but Jenrick's insistence the company does not bid for public works could have a serious effect on its business. It told the public inquiry into the disaster last year (see publication date) that "much of Rydon's work is ultimately for public sector clients such as local authorities".

Rydon has a public sector framework agreement, which means it is on a list of suppliers that have been evaluated as capable of delivering common public sector requirements using standardized contract terms. They are used by buyers in central government across the public and third sectors. Rydon's recent workload has included projects for the NHS, housing associations and the Ministry of Defence.

A Cabinet Office spokesperson said: "Being on a framework does not guarantee a company will secure government contracts and does not constitute an endorsement of them. Under existing EU rules, we are not legally allowed to preclude Rydon Construction from bidding for government contracts."

Further information is available via:

Source: Booth R (2019) 'Government drops Grenfell contractor in sudden U-turn', *The Guardian* [online], 7 November. Available at: www.theguardian.com/uk-news/2019/nov/07/government-in-u-turn-over-approval-for-grenfell-tower-contractor-rydon [accessed 3 January 2020]

Related Links:

Booth R (2019) 'Grenfell inquiry accused of focusing on junior firefighters', *The Guardian* [online]. Available at: www.theguardian.com/uk-news/2019/oct/29/grenfell-inquiry-accused-of-focusing-on-junior-firefighters [accessed 2 January 2020]

RICS (2019) '**The case for a global fire safety standard**' [RICS Website Home > News & Insight > Future of surveying > Sustainable building > The case for a global fire safety standard] RICS UK [online]. Available at: www.rics.org/uk/news-insight/future-of-surveying/sustainable-building/the-case-for-a-global-fire-safety-standard/ [accessed 2 January 2020]

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 2 January 2020]

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 2 January 2020]

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 2 January 2020]

Hackitt Review

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 2 January 2020]

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 2 January 2020]

Building a safer future: an implementation plan

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], **Last updated 13 March 2019**. Available at: www.gov.uk/guidance/the-building-safety-programme?utm_source=8a4a7b08-6d99-4bf7-aa85-3cb1e66b45da&utm_medium=email&utm_campaign=govuk-notifications&utm_content=immediate [accessed 2 January 2020]

Designing Buildings Wiki (2018) 'Building a safer future: an implementation plan' [online], last edited 21 December 2018. Further information is available at: www.designingbuildings.co.uk/wiki/Changes_to_Approved_Document_B_following_the_Hackitt_review [accessed 2 January 2020]

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Collection: Grenfell Tower

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

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

Guidance incl.

- Memorial Commission
- Independent Grenfell Recovery Taskforce
- Public Inquiry
- Immigration
- Letters
- Announcements and updates

- Guidance

Source: GOV.UK, Ministry of Housing, Communities & Local Government (2017), Collection: 'Grenfell Tower' [online], last updated: 11 June 2019. Available at: www.gov.uk/government/collections/grenfell-tower [accessed 2 January 2020]

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Other News and Views:

ICMS 2 will impact life-cycle cost analysis for constructed assets

- The second edition of the International Construction Measurement Standards will have a significant impact on life-cycle cost analysis for constructed assets.

The International Construction Measurement Standards second edition (ICMS 2) launched in September (see publication date) and supersedes ICMS 1st edition (ICMS 1). ICMS 1 was launched in July 2017 and published by the ICMS Coalition (ICMSC) – a global group of 47 professional and not-for-profit organisations. The group works together to develop and implement international standards for classifying, defining, measuring, recording, analyzing and presenting entire construction costs at a project, regional, state, national and international levels.

ICMS 1 were developed to harmonise global cost reporting across markets, regions and subsectors by setting out how to classify, group and report construction project costs in a structured and logical form. They were designed to be used for buildings, civil engineering and infrastructure projects of all sizes and, where applicable, with building information models.

For RICS, ICMS 1 was the first step in creating a seamless, global, pyramidal hierarchy of construction cost classification and offered very high-level global cost benchmarking that connected to granular, local cost measurement.

ICMS 2 is a response to industry feedback from ICMS 1 and resulted in the formation of a second independent standards-setting committee (SSC). This committee included some of the professionals who had developed the first edition, combined with additional experts in life-cycle costing. The SSC worked virtually and met as a group twice: in Dubai and London. Both editions of the international standards have adhered to a transparent, detailed and inclusive development process, and around 300 comments were received and reviewed during the consultation period for ICMS 2.

Further information and access to the report is available via the source provided below:

RICS (2020) 'ICMS 2 will impact life-cycle cost analysis for constructed assets', RICS [online], 3 January. Available at: www.rics.org/uk/news-insight/latest-news/news-opinion/icm-2-will-have-a-significant-impact-on-life-cycle-cost-analysis-for-constructed-assets/ [accessed 3 January 2020]

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Chartered Institute of Building (CIOB) responds to UK construction output figures for October 2019

On Tuesday 10 December the office for National Statistics (ONS) released the data on construction output for October 2019.

Official figures show that construction output has decreased slightly by -0.3% in the last three months to October (see publication date). Compared to September, output has fallen by 2.3% - the largest fall since January 2018 (a 2.6% fall which was due to bad weather). There was a fall in the total number of new housing starts (-2% against 2.1% in September), particularly in private housing (-5% compared to 1% previously) and all new work dropped by -1.2% compared to 3.5%. Repair and maintenance work also decreased, but not as significantly (-3.8% in October -5.1% in September).

The figures are worth noting as they record the lowest monthly output in the sector since 2018. This could be due to the uncertainty of Brexit slowing the progress of developments and new projects. It will be interesting to compare these figures to those over the next few months, following the formation of a new government and with the UK set to leave the EU on 31 January 2020.

Caroline Gumble, Chief Executive at the CIOB, commented: "It's interesting to look at these figures and note that there is something of a slowdown, although that's not a huge surprise given the current political environment. As the CIOB has said in our manifesto, we need to see a pipeline of well-planned projects and

support for sector jobs across the UK. These should be among the priorities for the next government for this important sector.”

CIOB (2019) ‘CIOB responds to UK construction output figures for October 2019’ [CIOB Website Home > Media Centre > CIOB News > CIOB responds to UK construction output figures for October 2019] CIOB Website [online]. Available at: <https://www.ciob.org/media-centre/news/ciob-responds-uk-construction-output-figures-october-2019> [accessed 3 January 2020]

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GOV.UK Research and statistics – HS2 Construction Commissioner’s report 10

- The tenth in a series of regular progress reports from the High Speed Two (HS2) independent Construction Commissioner.

In Sir Mark Worthington’s third report as Independent Construction Commissioner, he provides an update on issues raised in the previous report (report 9) and comments on a number of related matters.

The independent Construction Commissioner’s role is to mediate and monitor the way in which HS2 Ltd manages and responds to construction complaints. The Construction Commissioner will mediate an unresolved construction relation disputes between HS2 Ltd and individuals or bodies and provides advice to members of the public about how to make a complaint about construction.

For further information and access to the full reports, please visit:

GOV.UK, High Speed Two (HS2) Limited (2019) Independent report: ‘HS2 Construction Commissioner’s report 10’ GOV.UK [online], 13 September. Available at: www.gov.uk/government/publications/hs2-construction-commissioners-report-10 [accessed 3 January 2020]

GOV.UK (2020) ‘Research and statistics’ [GOV.UK > search > Research and statistics > Construction > After 2019] GOV.UK [online]. Available at: www.gov.uk/search/research-and-statistics [accessed 3 January 2020]

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Skills agenda

Post Brexit skills shortages to push up tender prices by 4%

- Tender prices are set to rise by 4% in 2022 as post-Brexit skills shortages bite across construction.

The latest forecasts from Arcadis predict rises after a period of industry “treading water” while politicians dither over Brexit.

The consultancy has held its short-term inflation forecast at just 2-3% to 2021 as clients take a ‘wait-and-see’ approach to the current political turmoil. Delays are adding competitive pressure to the market, but the trend is highly sector specific. Markets such as data centres are particularly busy, while others including offices, industrial and schools are on a downward curve.

Arcadis said there is enough competition to put a partial brake on input cost inflation in the short to medium term. But tighter labour markets from 2022-23 means costs are predicted to rise by 1% per annum, reaching 4% by 2022. Earnings growth for construction employees has averaged 4.2% over the past year, up from 2.1% in 2017.

Simon Rawlinson, Head of Strategic Research and Insight at Arcadis, said:

“UK construction has a long-established skills and training problem.

“With skilled EU labour making up 8-10% of the workforce, specialist contractors and employers have been shielded from the necessity of developing and maintaining the skills of their workforce.

“However, with the prospect of post-Brexit restrictions on migration, we’re now racing a real crisis in terms of future labour capacity.

“The supply chain will need to look at other options for increasing productivity.

“Off-site manufacturing currently delivers around 8% of industry output, but with the introduction of a government mandate, this could increase significantly.

“Adopting new technologies to improve processes will help to eliminate waste and duplication, while a renewed focus on training and re-training – particularly with the introduction of T-levels in 2020 – will further help to support a much-needed flow of talent.”

Source: Prior G (2019), 'Post Brexit skills shortages to push up tender prices by 4%', *Construction Enquirer* [online], 12 June. Available at: www.constructionenquirer.com/2019/06/12/post-brexit-skill-shortages-to-push-up-tender-prices-by-4/ [accessed 2 January 2020].

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Unlocking construction's digital future: A skills plan for industry

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

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

The report found that:

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

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

Source: CITB (2018) 'Unlocking construction's digital future: A skills plan for industry' [online]. Available at: www.citb.co.uk/research-and-insight/innovation-technology/unlocking-constructions-digital-future/ [accessed 2 January 2020]

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

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

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

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

Source: Watson M (2007) 'Concerns for Skills Shortages in the 21st Century: A Review into the Construction Industry, Australia', *Construction Economics and Building*, Vol 7 (1) [online], UTS ePress. Available at: <http://epress.lib.uts.edu.au/journals/index.php/AJCEB/article/view/2977> [accessed 2 January 2020]



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

Related Links:

Parker K, Head of Business Improvement at Town and Country Housing Group (2018) '**Mind the gap!** – **managing the skills gap in the construction sector**', LinkedIn [online]. Available at: www.linkedin.com/pulse/mind-gap-managing-skills-construction-sector-katherine-parker/ [accessed 2 January 2020]

Deloitte (2017) 'Soft skills for business success' [online]. Available at: www2.deloitte.com/au/en/pages/economics/articles/soft-skills-business-success.html [accessed 2 January 2020]

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Women in construction sector – how the industry is coming together to recruit and retain women

More and more women are qualifying into the surveying profession, with the number currently at 31% - demonstrating that the continued focus on improving gender diversity is carrying weight. RICS has committed to a corporate objective of engaging increased numbers of women in the profession and along with the launch of the Inclusive Employer Quality mark {IEQM} in 2015, this focus on driving change is making a real difference. During this time whilst the overall number of women in the profession has moved slowly – 1% year on year to a UK total of 15% - there has been a substantial increase in the number of women entering surveying. A 93% increase in the number of women enrolling across APC, AssocRICS and Senior Professional routes since 2014 demonstrates that continual, focussed activity will make a difference.

How has this been achieved?

There has been a continued focus on the increased engagement of young women coming into surveying. This has been achieved through a number of channels. Firstly, ensuring marketing materials have greater female visibility to help promote the profession – whether for **schools** or **universities** – has had a great impact. Engaging female influences, such as YouTube influencer Eve Bennett, has also contributed to the increased engagement of young women, by demonstrating the interesting career that is on offer in the space they occupy. Furthermore, by running programmes such as the Inspire Schools programme can specifically target young women – in this case, young women aged 13-15 – as well as ensuring greater reach in terms of ethnicity and socio-economic diversity.

Further information is available at:

Source: RICS (2019), 'Women joining surveying profession in increasingly greater numbers', RICS [online], 20 November. Available at: www.rics.org/uk/about-rics/responsible-business/diversity-and-inclusion/women-joining-surveying-profession-in-increasingly-greater-numbers/ [accessed 2 January 2020].

Related Links:

CIOB (2019), 'Women in the construction sector – how the industry is coming together to recruit and retain women', CIOB [online], 30 May. Available at: www.ciob.org/media-centre/news/women-construction-sector-%E2%80%93-how-industry-coming-together-recruit-and-retain-women [accessed 2 January 2020].

Construction Manager (2019), 'Construction's gender imbalance revealed', *Construction Manager* [online], 26 March. Available at: www.constructionmanagermagazine.com/news/constructions-gender-imbalance-revealed/ [accessed 2 January 2020].

The Construction Index (2018), 'Lendlease reports gender pay gap progress', *The Construction Index* [online]. Available at: www.theconstructionindex.co.uk/news/view/lendlease-reports-gender-pay-gap-progress [accessed 2 January 2020].

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Brexit / Brextension

Life after Brexit

There are millions of questions about life after Brexit buzzing around Britain's heads, but one of the most concerning is how the UK's departure is going to affect living costs. We've already been told house prices are stagnant: in June 2019, the average house price was £230,000, only £2,000 more than June last year. In London and the South East, prices are actually falling, and landlords are unsure how to react to these uncertain times.

Ideal flatmate (2019) 'How will Brexit affect the UK rental market?' Infabode [online], 2nd September. Available at: www.infabode.com/hubs/general-uk-prs-market/hub_posts/121633 [accessed 2 January 2020]

Related Links:

GOV.UK (2019) 'Get ready for Brexit', GOV.UK [online]. Available at: <https://www.gov.uk/brexit> [accessed 2 January 2020]

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 2 January 2020]

Gerrard N (2019) 'Skanska blames Brexit for weakening UK market', *Construction Manager* [online], 26 July. Available at: www.constructionmanagemagazine.com/news/skanska-warns-weakening-uk-market/ [accessed 2 January 2020]

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 2 January 2020]

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 2 January 2020]

RICS (2018) 'Brexit Deal Agreement: What happens next?', [RICS UK website > Home > News & Insight > Latest News > Brexit > Brexit Deal Agreement: What happens next?] RICS [online], 11 December. Available at: www.rics.org/uk/news-insight/latest-news/brexit/brexit-deal-agreement-what-happens-next/ [accessed 2 January 2020]

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

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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 2 January 2020]

Brexit timeline: UK's department from the EU [online]. Further information is available at: www.bbc.co.uk/news/uk-politics-43546199 [accessed 2 January 2020]

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 2 January 2020]

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Latest research from CBRE – Smarter Cities 2025

- The term "smart" can be a prefix for a whole host of things: phones, motorways, tickets, cards, buildings. And also, **cities**, many of which are making concerted attempts to become smarter as a way of generating a range of economic, social, cultural and other benefits for residents, visitors and businesses. But what exactly is a "smart city"?

CBRE recently (see publication date) co-sponsored a major global research study entitled **Smarter Cities 2025 Building a Sustainable Business and Financing Plan**, carried out by ESI ThoughtLab. The report was launched on November 13th and the various outputs can be found via the source provided below.

The study analysed the "smart" credentials of 136 cities across the world, and categorized the cities into "beginner", "transitioning", and "leader" stages of smart city maturity. Since the term "smart" is itself a very broad description, the study assessed cities across ten specific elements of smart city development: governance, economy, infrastructure, talent, funding, mobility, environment, public safety, public health, and payment systems.

Cities are at every different stages in this journey and there is a wide variation in the level of priority, degree of sophistication and exact focus of smart city initiatives. Cities mostly see liveability enhancements – such as

improved safety and better infrastructure – as the main benefits, but they expect revenue and financial benefits to feature more strongly as their efforts progress. Uncertainty about the ROI of specific programmes is widespread concern, or even an inhibitor, and can make it difficult to select among different possible approaches. Sharing the experiences and challenges of the “leader” cities ought to help those at an earlier stage to pursue profitable routes. Nothing wrong with learning from others’ mistakes!

Overall:

- Smart investments trigger a virtuous cycle of economic growth by generating capital for new smart city investments and attracting businesses, residents, tourists, and talent.
- To achieve those catalytic impacts, cities need to build a clear path to a smart city future.
- With digital technologies evolving at speed, cities need to conduct frequent feasibility checks on their plans and be prepared to adapt.
- Data is the fuel for smart city transformation, and cities need to make data management a core area of excellence.
- Spending on smart programs rises with smart city maturity.
- The future of mobility will be multi-modal transportation systems interconnected through smart technology
- Civic leaders see the environment as the top challenge to address through smart city programs and improved public safety and health as the main benefits of current smart initiatives.
- Funding smart city solutions is a key challenge for most cities.

Smart city initiatives intersect with lots of areas that are highly relevant to CBRE clients, including city planning, infrastructure, energy, placemaking, smart buildings, technology innovation and regeneration. In raising the amenity and efficiency of cities, smart city initiatives have the potential to boost property values in specific areas, or even to raise the economic status of an entire city. Getting alongside city authorities at the planning stage and working to understand – or, better still influence – the impacts of smart city initiatives will be to the advantage of forward-looking owners and occupiers.

Holberton R (2019) ‘Smarter Cities 2025’, CBRE [online]. Available at: <http://aboutrealestate.cbre.eu/smarter-cities-2025/> [accessed 2 January 2020]

High Streets in Great Britain – ONS releases data analysis and interactive maps

The Office for National Statistics (ONS) and Ordnance Survey (OS) have collaborated to identify high streets in Great Britain, what types of properties and businesses are on high streets as well as how the number of businesses and employment have changed in recent years.

The analysis is based on almost 7,000 unique high streets identified by Ordnance Survey with the greatest number found in London (2014) and the smallest number in the North East (276). The OS figures also show that across Great Britain over half (56%) of addresses on high streets are residential, with just under a third (31%) being used for retail.

An interactive map published on the OS website showing the location and makeup of each of these high streets is available via the weblinks provided below (1).

ONS figures show that the percentage of people living within 200m of a British high street is on average 16%, with London (38%) having the highest proportion of residents living near a high street and East of England (11%) having the lowest percentage.

In 2017 there were 404,145 businesses registered on high streets, 13% of all businesses in Great Britain. London had the largest share of its businesses on the high street (23%) while the East of England had the lowest share of its businesses on them (10%).

Between 2012 and 2017 the number of retail businesses on the high street fell (-2%) while those not based on the high street grew (+6%). The number of high street retail jobs fell in every GB region except London (+6%) over this period. In 2017, retail made up 25% of total high street employment, with this number being highest in the South West of England (31%) and lowest in London (18%).

The full High streets in Great Britain release is available via the weblinks provided below (2)

Related Links:

1) Ordnance Survey (2019) ‘OS Data supports Britain’s high streets’ [online]. Available at: www.ordnancesurvey.co.uk/business-and-government/public-sector/britains-high-streets.html [accessed 2 January 2020]

2) Office for National Statistics (2019) Release: 'High streets in Great Britain' [online]. Available at: www.ons.gov.uk/releases/highstreetsingreatbritain [accessed 2 January 2020]

Source: Heritage Update e-Bulletin [online], Issue **No 395**, 6 June 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2020]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 January 2020].

Sources of further information on Britain's High Streets / Retail Sector:

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 2 January 2020]

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 2 January 2020]

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 September 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 2 January 2020]

CBRE (n.d.) *Future of Retail 2030* [online]. Further information is available at: www.cbre.com/united%20states/real-estate-services/real-estate-industries/retail-services/retail-innovation-hub/retail-2030 [accessed 2 January 2020]

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

Telegraph (2018) '**The Future of Retail**', *The Telegraph* [online]. Available at:

www.telegraph.co.uk/business/tips-for-the-future/future-of-retail/#.W78La1ah7EY.mailto [accessed 2 January 2020]

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RICS Research

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

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

As of **3 January 2020**, the topics covered include.

- **UK Residential Market Survey** – The UK Residential Market Survey is used by the government, the Bank of England and other key institutions, including the IMF, as an indicator of current and future conditions in UK residential sales and lettings (**further information is below**).
- **Valuation of flexible workspace** – This insight paper aims to develop and enhance the understanding of the flexible workspace market.
- **Prefabricated building integrated photovoltaics: cost and deployment** – This research evaluates the mechanisms driving the cost reductions and deployment of prefabricate Building Integrated Photovoltaics (BIPV) and explores the benefits, including aesthetics, of integrating photovoltaics within building materials and the challenges that need to be overcome.
- **Performance metrics required and achieved returns for UK real estate** – This aim of this research is to improve the understanding of the form, extent and variability of the financial returns achieved by real estate developers, focusing on the UK real estate market.
- **UK Chart Book and Survey Market Updates** – A monthly snapshot of the UK economy, focusing on the construction, housing and commercial property sector (**further information is below**)
- **Global Commercial Property Monitors** – Our global commercial property monitors are leading indicators of conditions in commercial property occupier and investor markets around the world.

- **BIM Execution Framework for early-stage estimating in PPP projects** - research examines the use of the lower accuracy UAV data where high accuracy data from the terrestrial laser scanner is available but has incomplete coverage.
- **Integration of geospatial data for retaining wall management** – This research examines the use of the lower accuracy UAV data where high accuracy data from the terrestrial laser scanner is available but has incomplete coverage.
- **Drones: applications and compliance for surveyors** – This insight paper discusses the opportunities, rapidly developing applications and compliance challenges of using drones in a surveying environment.

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

Source: RICS website > Home > News & Insight > Research (2029) [online]. Available at: www.rics.org/uk/news-insight/research/ [accessed 3 January 2020]

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RICS Market surveys – UK Construction and Infrastructure Market Survey: Q3 2019

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

Source: RICS website > Home > News & Insight > Research > Market surveys

Incl.

- **UK Residential Market Survey**
- **UK Construction and Infrastructure Market Survey**
- **UK Commercial Property Market Survey**
- **Global Construction Survey**
- **Portuguese Housing Market Survey**
- **Hong Kong Residential Market Survey**

e.g. UK Construction and Infrastructure Market Survey

RICS (2019) *UK Construction and Infrastructure Market: Q3 2019* [online]. Available at: www.rics.org/uk/news-insight/research/market-surveys/uk-construction-and-infrastructure-survey/ [accessed 3 January 2020]

Growth in workloads moderate amidst stable outlook

- Workloads moderate across most sectors and geographic regions
- New hiring continues despite lack of new business enquiries and rising labour costs
- Brexit uncertainty takes its toll on investment intentions

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

RICS (2019) *UK Construction and Infrastructure Market Survey: Q3 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 3 January 2020]

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Selecting benchmark building prices

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

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

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

The statistics presented for a building type may include mean, media, upper and lower quantiles, deciles and overall range. A scatter diagram and histogram can also be found where the sample is at least 10. While an average figure is provided by the mean or median, it will usually be more appropriate to pick a cost from within the range, to reflect the project's likely position within the distribution of costs for a building type, by considering the factors listed above.

A **video** showing how to use the BCIS average prices sections is also available via - RICS (2018) 'BCIS – Guide to project analyses', YouTube [video]. Available at:

www.youtube.com/watch?v=IFkipnh10Qs&utm_source=ricsmembership&utm_medium=email&utm_campaign=bcisprojectanalysisvideo [accessed 2 January 2020]

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

RICS (2018) BCIS Construction [RICS website > Home > Products > Data Products > BCIS Construction] RICS [online]. Available at: www.rics.org/uk/products/data-products/bcis-construction/ [accessed 2 January 2020]
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BCIS Schedules of rates updated for 2019

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

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

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

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

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

Additions to the datasets

Several items have been added to both datasets, including:

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

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

New additions to the 2019 dataset include:

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

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

Source: RICS (2018), 'BCIS Schedules of rates updated for 2019' [RICS website > Home > News & Insight > Latest news > BCIS Schedules of rates updated for 2019] RICS [online], 8 August. Available at: www.rics.org/uk/news-insight/latest-news/ [accessed 2 January 2020].

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Tackling mental health and wellbeing within the construction industry



Source: Builder&Engineer (2017)

CIOB surveys the sector to gather data on mental health and stress

The Chartered Institute of Building (CIOB) is undertaking an extensive survey into mental health within the construction industry. This is increasingly becoming a critical issue within the industry; the CIOB is responding to recent figures from the Office of National Statistics (ONS)* which found that men in the UK construction industry are almost four times more likely to take their own lives than men on average.

Professor Charles Egbu, President of the CIOB, said of the survey: “This is an incredibly important issue and one that aligns with the theme of my presidency. For over 20 years I’ve been looking into the area of mental health and wellbeing and there is much research out there which sets out the scale of the problem and shows that it is complex. My hope for the outcomes of the survey is that, although there’s no one solution that addresses these issues, we can gather data which will point to practical data which will point to practical support and solutions that will work.”

The results from the survey will be analysed to establish which are the primary pressures on construction workers at different levels (e.g. director, site, manager, site worker etc.) and whether there are any other patterns across the responses. Depending on the analysis, this information is then likely to be used to:

- Develop recommendations for both the construction sector and policymakers to help reduce the pressures identified
- Draw the above recommendations, if legislative change is required, into a policy paper to discuss with parliamentarians
- Gather case study material to exemplify the primary issues raised in the survey and demonstrate the impact that these issues can have on individuals
- Shape a detailed report outlining the findings, sharing the case studies and summarizing any policy recommendations.

It is anticipated that the CIOB’s report with the analysis of the survey will be available later this year (2019).

Further information and access to the survey is available at:

CIOB (2019) ‘CIOB surveys the sector to gather data on mental health and stress’, [CIOB Website Home > Media Centre > CIOB News > CIOB Surveys the sector to gather data on mental health and stress] CIOB [online]. Available at: www.ciob.org/media-centre/news/ciob-surveys-sector-gather-data-mental-health-and-stress [accessed 2 January 2020]

Related links incl.:

Wellbeing consideration for property managers

Wellbeing strategy model:



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 2 January 2020]

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 November 2019]. Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 January 2020].

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 2 January 2020]

RICS Research (2018), Cities, health and wellbeing. [RICS website > Home > News & Insight > Research > Cities, health and well-being]. RICS [online]. Available at: www.rics.org/uk/news-insight/research/insights/cities-health-and-well-being/ [accessed 2 January 2020]

Kirkup A (2018) '**Tackling mental health in the workplace**' [online], 2 February 2018. Further information is available at: www.ice.org.uk/news-and-insight/the-civil-engineer/february-2018/tackling-mental-health-in-the-workplace [accessed 2 January 2020]

Buckland D (2017) '**Building up wellbeing in construction**' [online], *Future of Construction*. Available at: <https://futureofconstruction.org/> [accessed 2 January 2020]

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 2 January 2020]

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

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

Headline Findings

- **The Total Economic Value to an individual is £30.24 per year** (£2.52 per month), and includes benefits gained from using their local park of green space and non-use benefits such as preservation of parks for future generations.
- **The Wellbeing Value associated with the frequent use of local parks and green spaces is worth £34.2 billion per year** to the entire UK adult population
- **Parks and green spaces are estimated to save the NHS around £111 million per year** based solely on a reduction in GP visits and excluding any additional savings from prescribing or referrals

To access and download the report, visit

Source: Watt E, Lawton Dr. R [et al.] (2018) *Revaluing Parks and Green Spaces – Measuring their economic and wellbeing* [online], London: Fields in Trust. Available at: www.fieldsintrust.org/research [accessed 2 January 2020]

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

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

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

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

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

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

Their website is broken down into:

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

Source: Joseph Rowntree Foundation website, About us [online]. Further information is available at: www.jrf.org.uk/ [accessed 2 January 2020]

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Making a sustainable community: life in Derwenthorpe, York, 2012-2018

- Derwenthorpe is being developed by the Joseph Rowntree Housing Trust (JRHT) as an urban extension of more than 500 homes on the outskirts of York, England.

This research finds that mainstream housing developers can successfully deliver sustainable homes and communities at scale that produce high-quality living environments. However, different levels of buy-in from residents mean that environmental and social measures need to be built into the model as far as possible from the outset.

Recommended actions

- Greater emphasis on the design, space standards and aesthetics of new developments should be incorporated into Government-level directives.
- Housing providers must work with resident groups to set up inclusive governance structures to promote the long-term social sustainability of communities

- Architects and developers need to 'build in' environmental interventions into new homes, rather than choose technology that requires resident knowledge and operation. They also should consider how they can influence residents' overall carbon footprints.

For further information, please visit:

Source: Quilgars D, Dyke A [et al.] (2019) 'Making a sustainable community: life in Derwenthorpe, York, 2012-2018' [online], 1st Feb. Available at: www.jrf.org.uk/report/making-sustainable-community-life-derwenthorpe-york-20122018 [accessed 2 January 2020]

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

JRF Housing Related Links:

JRF analysis unit (2018) 'Affordable Rents compared to traditional social rents' [online], 13 July. Available at: www.jrf.org.uk/report/affordable-rents-compared-traditional-social-rents [accessed 2 January 2020]

Brook P (2019) 'Framing toolkit: Talking about poverty' [online], 14 March. Available at: www.jrf.org.uk/report/framing-toolkit-talking-about-poverty [accessed 2 January 2020]

Barnard H (2018) 'UK Poverty 2018' [online], 4 December. Available at: www.jrf.org.uk/report/uk-poverty-2018 [accessed 2 January 2020].

Soodeen F (2018) 'Social Housing Green Paper: JRF and JRHT response' [online], 13 November. Available at: www.jrf.org.uk/report/social-housing-green-paper-jrf-and-jrht-response [accessed 2 January 2020].

Barnard H, Heykoop L, and Kumar A (2018) 'How could Brexit affect poverty in the UK?' [online], 6 September. Available at: www.jrf.org.uk/report/how-could-brexit-affect-poverty-uk [accessed 2 January 2020]. **N.B.** Part of 'Solving poverty after Brexit'

Barnard H (2018) 'People on low incomes bear brunt of housing crisis: it's time to act' [online], 26 June. Available at: www.jrf.org.uk/blog/people-low-incomes-bear-brunt-housing-crisis-its-time-act [accessed 2 January 2020]

Altair Consulting (2018) 'Housing and life experiences: policy development' [online], 30 April. Available at: www.jrf.org.uk/report/housing-and-life-experiences-policy-development [accessed 2 January 2020]

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[A Minimum Income Standard for the United Kingdom in 2019](#) – Latest research from Loughborough University and funded by Joseph Rowntree Foundation (JRF)

This report presents the 2019 update of the Minimum Income Standard (MIS) for the UK. It shows that higher living costs have been driven in particular by more expensive domestic fuel, public transport and childcare. A continued squeeze on living standards for those on low incomes has been emphasized by the benefits freeze. This has outweighed the benefits of a higher minimum wage for working families with children, while out of work benefits continue to fall relative to need.

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

Hirsch, D. (2019) '*A Minimum Income Standard for the United Kingdom in 2019*', York: Joseph Rowntree Foundation [online]. Available at: www.lboro.ac.uk/research/crsp/publications/ [accessed 3 January 2020]

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 2 January 2020]

Hirsch D and Stone J (2019) '*Lone parents under pressure*', Loughborough: Centre for Research in Social Policy, and

Hirsch D (2019) '*London parents under pressure – summary of trends*', Loughborough: Centre for Research in Social Policy.

Loughborough University (2019) 'Centre for Research in Social Policy, Publications' [online]. Available at: www.lboro.ac.uk/research/crsp/publications/ [accessed 2 January 2020]

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

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

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

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

Home Builders Federation (HBF), Policy and Activities, HBF Reports and Publications [online]. Further information is available at: www.hbf.co.uk/reports/ [accessed 2 January 2020]

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UK Property Research – Savills latest research incl.

Valuing Britain 2018

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

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

This and more facts and figures can be found at:

Savills Research (2018) *Valuing Britain 2018* [online]. Available at: www.savills.co.uk/valuing-britain/index.html [accessed 2 January 2020]

Savills Research (2018) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: www.savills.co.uk/services/research.aspx [accessed 2 January 2020]

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Research

Publication | Planning policy update: Why is new home delivery failing to measure up?

- In the year to June 2019, there were 377,000 full planning consents granted across England, continuing a pattern of decision making that has offered a substantial pipeline since the start of 2017

Summary

In the year to June 2019, there were 377,000 full planning consents granted across England, continuing a pattern of decision making that has offered a substantial pipeline of sites since the start of 2017. If these consents were fully implemented as quickly as they were granted, just short of two million homes could be delivered over the course of five years. But the reality is quite different, with a sizeable gap of around 124,000 homes per annum between consents granted and homes delivered. The delivery problem, as discussed in previous Savills planning papers, is partly due to a lack of consents granted where need is greatest.

For context, of the top quintile of least affordable local authorities in England, 66% do not have a Local Plan that was adopted in the past five years. Average delivery within these authorities over the past three years equates to a shortfall of 26,000 homes per annum against the standard calculation of housing need. If these areas delivered the need set out in the standard calculation, it would make a sizeable contribution towards bridging the gap.

However, our tracking of Local Plan production (provided via the source link later) shows that progress remains slow in these areas, and emerging targets are still failing to adequately meet need in a number of plans nearing adoption. This has been highlighted most recently following the London Plan Examination in Public, where the

Inspectors have recommended a target of 52,000 homes per annum against an identified need of 66,000 across the capital.

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

Source: Simmie H, Savills Research and articles (2019), 'Publication: *UK Housing Market Update*' [online], 20 December. Available at: www.savills.co.uk/research_articles/229130/294152-0 [accessed 3 January 2020]

Savills Research (2019) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: www.savills.co.uk/services/research.aspx [accessed 3 January 2020]

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Residential Research

Publication | Market in Minutes: Canary Wharf Residential – December 2019

- The Canary Wharf residential market provides opportunities amongst the challenges, with prospects for growth

Challenges and opportunities – The Canary Wharf market is changing. From its early life as West India Dock, the area has transformed over the past 30 years to become London's second financial centre. It now houses 150 major office tenants and is home to 120,000 workers.

But the area has seen a significant transition into a place to live as well as work – with substantial development of its retail and residential in areas such as upcoming Wood Wharf.

However, Canary Wharf has not been immune to the factors currently limiting the wider London market.

Residential values in the borough of Tower Hamlets fell by 4.6% in the 12 months to August 2019. And since the peak of the market in 2016, transaction volumes across the borough are down by one-third.

In the more expensive prime market, prices have fallen by 5.6% over the past five years.

Pressure on the buy to let market, with the 3% additional stamp duty and cuts to tax relief, has resulted in an increase in supply in this market and has made pricing sensitive. And this has been intensified by the uncertainty of job security amid the Brexit negotiations. As such, there has been a shift in the demographic of buyers in the Canary Wharf market. In 2016, 42% of Savills buyers in the area were buying a property for investment. Since 2018, that has fallen to only 10%.

Who lives in Canary Wharf? Residential demand in Canary Wharf is particularly strong from young, wealthy professionals. According to Experian, 53% of households in E14 are aged under 40, compared with an average of 30% across London. Just over one-third of households in E14 earn more than £100,000 per year. The employment opportunities in Canary Wharf attract both buyers and tenants from across the world. The devaluation of sterling since the EU referendum has presented a particular opportunity. International buyers through Savills have increased since 2017, and now account for around one-third of the market.

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

Source: Ford G, Savills Research and articles (2019), 'Publication – *Market in Minutes: Canary Wharf Residential*' [online], 18 December. Available at: www.savills.co.uk/research_articles/229130/293635-0 [accessed 2 January 2020]

Savills Research (2019) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: www.savills.co.uk/services/research.aspx [accessed 2 January 2020]

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Commercial Investment

Publication | Nordics Logistics Outlook 2020 – December 2019

- Nordics logistics supply remains low amid growth of online retail

Nordics e-commerce hovers around the 10.7% tipping point

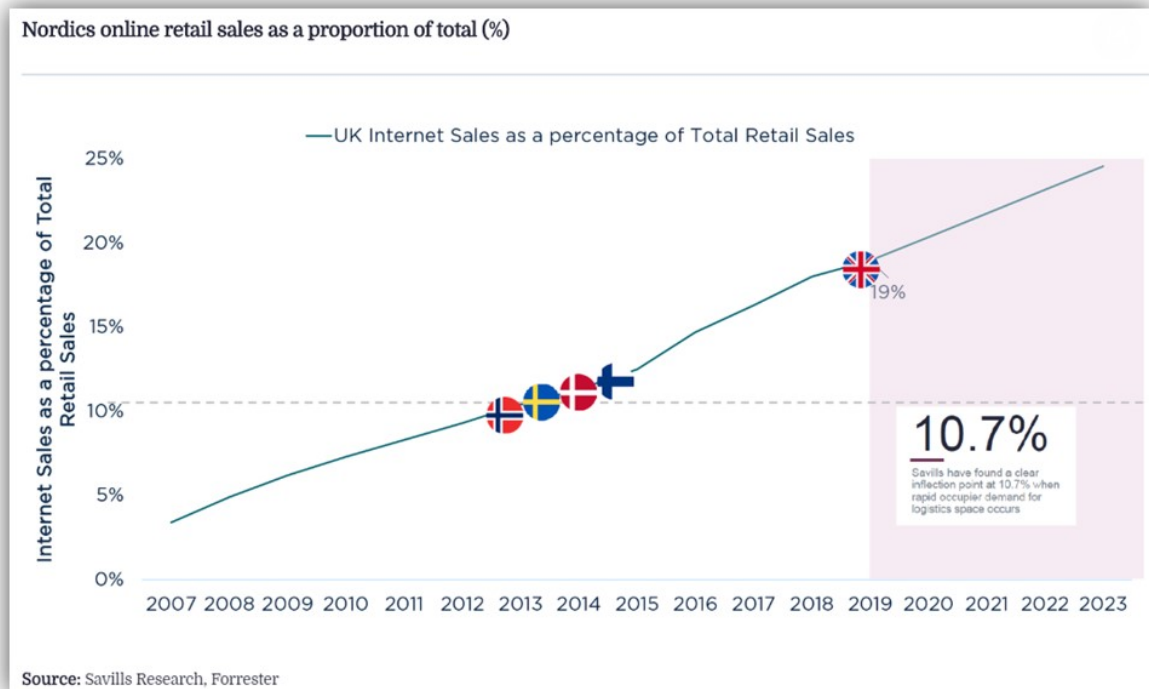
Macro overview – The fundamentals of the logistics market in the Nordics remain attractive to investors.

Inflation sits safely below the 2% target level and latest wage growth data has been in excess of 3% in Finland and Norway. This is ultimately having a positive impact on retail sales across the Nordics, with Sweden up 3.3% YoY and Finland up 3.9% YoY. However, both global and domestic macroeconomic headwinds remain – which have had a recent negative impact on consumer confidence, though largely in line with the long-term averages. A generally slower economic growth across Europe, the Nordics is set to outperform over the next five years (1.7% pa vs EU28 average of 1.4% pa).

Ecommerce fundamentals – A resilient consumer economy has led to impressive online retail sales growth.

Online retail sales are estimated to reach a total of €22.9bn across the Nordics in 2019, up 12% from 2018, and

Forrester forecast this to grow a further 11% in 2020. Online retail sales as a proportion of total retail sales in the Nordics currently hovers around the 10.7 mark (Denmark 11.3%, Sweden 10.5%, Norway 10% and Finland 11.4%) – the inflection point at which in the UK, we observed a rapid acceleration in occupier demand for logistics space. At end 2019, Forrester forecast that 19% of the UK’s retail sales will be made online. The chart below indicates that if the Nordics see the same growth trajectory as in the UK, similar online retail penetration levels will be achieved within 5-7 years’ time.



Source: Barnes M, Wiman, P, and Marcus de Minckwitz (2019), 'Publication: *Nordic Logistics Outlook 2020*' [online], 19 December. Available at: www.savills.co.uk/research_articles/229130/294022-0 [accessed 3 January 2020]

Economists expect annual growth to ease to 2.9% on average this year, due to a weak EU economy, increasing export weakness and structural constraints, notably labour constraints. Slovakia is forecast to grow 3.6% pa, Poland by 3.5%, Czech Republic and Hungary by 2.7%, and Romania by 2.3%. Nevertheless, these levels of economic expansion still remain strong in the context of the eurozone. Further information and access to the research in full is available @

Source: Barnes M, Wiman, P, and Marcus de Minckwitz (2019), 'Publication: *Nordics Logistics Outlook 2020*' [online], 19 December. Available at: www.savills.co.uk/research_articles/229130/294022-0 [accessed 3 January 2020]

Savills Research (2019) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: www.savills.co.uk/services/research.aspx [accessed 3 January 2020]

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Rural Research – Food and Farming

Publication | Spotlight: Farm Diversification – Nov 2019

- Traditional farming is set to be transformed over the next decade, so it is important to put your farm business under review in order to make the most of your assets

Welcome to this latest Savills research publication on farm diversification.

In addition to the political uncertainty as a result of the indecision over Brexit, farms are facing the challenge of subsidy reduction, rising costs, lower market prices and the importance of energy security, sustainability and changing consumer attitudes.

This publication seeks to highlight the potential opportunities for the agricultural industry with a special focus on “making the most of your team” and the latest diversification trends.

We also launch the Savills Rural Vibrancy Index that tracks some of the key drivers and trends in farm diversification.

Farm diversification is not a new phenomenon, and indeed it's not for every farmer or farming business but for many, making the best use of a farm's assets to enhance farm income from sources other than conventional farm production makes sense.

A review of the farm business will highlight any potential opportunities for diversification, which may include:

- Adding value to farm produce – on-farming processing, direct/online selling or farmers' markets
- Developing a new enterprise – for example, glamping, adventure sports, pets, leisure and recreation activities
- Developing buildings – holiday lets, weddings, residential, workshops, office space
- Farm energy – renewables or anaerobic digestion.

According to DEFRA, in 2017/2018 two-thirds of all farms had diversified activities, an increase of 2% on the previous year. Total income from diversified activities in 2017/18 was £680 million and across all farms income from diversified enterprises accounted for 22% of total farm business income.

The most popular farm diversification is letting buildings for non-farming use, with 45% of all farms letting buildings. This includes holiday accommodation, commercial units or office space. However, as consumers have become more demanding, so farm diversification activities have become more consumer-focused, sophisticated and varied.

Don't "wait and see"

The traditional dynamics of UK agriculture will be transferred as the industry prepares for a life without the Common Agricultural Policy. The Agricultural Bill 2018 announced a transition away from the Basic Payment Scheme (BPS) towards a new system of financial assistance for delivering public goods through a new Environmental Land Management Scheme (ELMS). By 2028 farmers will no longer receive a subsidy based on the acres they farm. The last approach that anyone should be considering is let's "wait and see". Now is the time to review the farm business, which may include:

- Revisiting farm contracts
- Looking for collaboration
- Reviewing costs
- Considering how the farm can be of most value to the public in order to receive public money and to capitalize on the growing area of private investment in natural capital
- Increasing farm productivity
- Reviewing the farm's assets and the opportunities for diversification

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

Buckingham N, and Norton E (2019), Research and articles, Publication: '*Spotlight: Farm Diversification*' [online], 5 November. Available at: www.savills.co.uk/research_articles/229130/292132-0 [accessed 2 January 2020]

Savills Research (2019) 'Research' [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: www.savills.co.uk/services/research.aspx [accessed 2 January 2020]

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Brexit Research

Brexit Research

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

Latest publications 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 2 January 2020]
- 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 (2019) *Brexit Research* [online]. Available at: www.savills.co.uk/insight-and-opinion/research.aspx?rc=United-Kingdom&p=&t=Brexit&f=date&q=&page=1 [accessed 2 January 2020]

Savills Research (2019) ‘Research’ [Savills Home > Insight & Opinion > Property Research > Research] Savills [online]. Available at: www.savills.co.uk/services/research.aspx [accessed 2 January 2020]

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

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

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

In 2014 the construction industry in the UK contributed £103 billion in economic output, 6.5% of the total.

2.1 million jobs or 6.25 of the UK totals were in the construction industry in Q 2015.

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

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

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

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

<http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN01432> [accessed 2 January 2020]

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Related Links/Sources 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 -

Under-occupying social housing: Housing Benefit [1 November 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN06272> [accessed 2 January 2020]

Housing Market: Key Economic Indicators [29 October 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02820> [accessed 2 January 2020]

Building out extent planning permissions [29 October 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CDP-2019-0232> [accessed 2 January 2020]

Grenfell Tower Fire: Background [28 October 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8305> [accessed 2 January 2020]

Leasehold high-rise flats: who pays for fire safety work? [28 October 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8244> [accessed 2 January 2020]

Environment Bill 2019-2020 [24 October 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8712> [accessed 2 January 2020]

Under Education, 2019 –

Brexit: a reading list of post-EU Referendum publications by Parliament and the Devolved Assemblies [5 November] [online]. Further information is available at <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7912> [accessed 2 January 2020].

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.

Level 4 and 5 education [4 November 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8732> [accessed 2 January 2020]

16-19 education funding in England since 2010 [15 October 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN07019> [accessed 2 January 2020]

No-deal Brexit: A guide to Commons Library research [11 October 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8682> [accessed 2 January 2020]

Suicide Prevention: Policy and Strategy [10 October 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8221> [accessed 2 January 2020]

Education spending in the UK [9 October 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN01078> [accessed 2 January 2020]

Under Energy and environment, 2019 –

Brexit: Trade issues for food and agriculture [5 November 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7974> [accessed 2 January 2020].

Brexit: a reading list of post-EU Referendum publications by Parliament and the Devolved Assemblies [5 November 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7912> [accessed 2 January 2020]

Planning for no-deal Brexit [5 November 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8733> [accessed 2 January 2020]

e-petition debate on restoring nature and climate change [25 October 2019]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CDP-2019-0230> [accessed 2 January 2020]

Environment Bill 2019-2020 [24 October 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-8712> [accessed 2 January 2020]

Brexit Glossary [5 June 2019] [online]. Further information is available at: <https://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7840> [accessed 2 January 2020]

Archive of key topic areas incl.

- **Housing Market: Key Economic Indicators**
- **Implementation of Sustainable Development Goals**
- **Flood insurance**

- **Planning: change of use**
- **Planning Reform Proposals**
- **House Prices: Social Indicators**
- **Enterprise Zones, and**
- **Neighbourhood Planning**

Source: The above-mentioned research briefings/papers are published on the Parliament **website** and are available to MPs and to members of the public, www.parliament.uk, Parliamentary business, Publications and records, **Research briefings** [online]. Further information is available at: <http://researchbriefings.parliament.uk/> [accessed 2 January 2020]

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

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

Sections of the CIOB Policy and Public Affairs website incl.

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

As of **23 December 2019**, Policy latest incl.

- **CIOB response to the Building a Safer Future: Proposals for reform of the building safety regulator consultation** (see below),
- **Press Release: Combined Action Needed to Tackle Severe Skills Shortages** (see below), and
- **Construction and the Modern Slavery Act: Tackling Exploitation in the UK** (see below).

Source: CIOB - Chartered Institute of Building's Policy and Public Affairs website [online]. Further information is available at: <http://policy.ciob.org/> [accessed 2 January 2020]

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CIOB response to the Building a Safer Future: Proposals for reform of the building safety regulatory system consultation

The Chartered Institute of Building (CIOB) has responded to the Ministry of Housing, Communities & Local Government (MHCLG) 'Building a Safer Future: Proposals for reform of the building safety regulatory system' consultation. A full copy of the responded can be accessed via the below mentioned source web-link. Further information is also available at

Source: CIOB (2019), '*CIOB response to the Building a Safer Future: Proposals for reform of the building safety regulator consultation*' [online], CIOB Policy & Public Affairs Portal. Available at: <https://policy.ciob.org/> [accessed 2 January 2020]

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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 2 January 2020]

Gerrard N (2019) ‘Construction plea for roles on ‘Shortage Occupation’ list’, *Construction Manager* [online], 25 January. Available at: www.constructionmanagermagazine.com/news/call-18-construction-roles-be-added-shortage-occup/ [accessed 2 January 2020]

CIOB, Policy & Public Affairs, Research [online]. Available at: <https://policy.ciob.org/research/> [accessed 2 January 2020]

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 2 January 2020]

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Construction and the Modern Slavery Act: Tackling Exploitation in the UK

Summary

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

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

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

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

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

The report highlights:

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

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

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

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

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

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

Source: Crates E (2018), 'Construction and the Slavery Act: Tackling Exploitation in the UK' [online], CIOB Policy & Public Affairs Portal, 14 May 2018. Available at: <https://policy.ciob.org/research/construction-and-the-modern-slavery-act-tackling-exploitation-in-the-uk/> [accessed 2 January 2020]

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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 was 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.constructionmanagemagazine.com/news/apprenticeships-starts-rise-first-time-levy-launch/ [accessed 2 January 2020]

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 2 January 2020]

Fire It Up (n.d.) YouTube [channel]. Available at: www.youtube.com/user/ApprenticeshipsNAS/featured [accessed 2 January 2020]

- 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 2 January 2020]

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Further 'Apprenticeship-related' links:

Guidance – Apprenticeship funding: how it works

- Changes to the apprenticeship funding system

The Government are making changes to the way apprenticeship funding works, including:

- **Introducing the apprenticeship levy**
- **Introducing the apprenticeship service** – this is an online service that allows employers to choose and pay for apprenticeship training more easily
- **Introducing a new 'co-investment' rate to support employers who don't pay the levy** ('co-investment' is when employers and government share the cost of training and assessing apprentices)

Apprenticeships are a devolved policy. This means that authorities in each of the UK nations manage their own apprenticeship programmes, including how funding is spent on apprenticeship training.

Access '[Apprenticeship funding from May 2017](#)' to read full details of what's changing.

Further information is available at:

GOV.UK, Education & Skills Funding Agency (2019) Guidance: 'Apprenticeship funding: how it works', GOV.UK [online], **Updated 13 March 2019**. Available at: www.gov.uk/government/publications/apprenticeship-levy-how-it-will-work/apprenticeship-levy-how-it-will-work [accessed 2 January 2020]

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UCEM Apprenticeship programme – Development talent for your business

Further information is available via the UCEM Website [online] and available @ www.ucem.ac.uk/development-talent-for-your-business/apprenticeships/ [accessed 2 January 2020]

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 2 January 2020]

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UCEM Accreditation and recognition

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

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

Further information can be accessed via the UCEM website [online] and available at: www.ucem.ac.uk/about-ucem/accreditation-recognition/ [accessed 2 January 2020]

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Further information on '[Designing Buildings Wiki](#)' –

The construction industry knowledge base incl. Featured articles, and news.

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

This month covers **Featured articles (as of 3 January 2020)** on

- **Roofing defects** – The part of the building with the potential to cause the most problems.
- **Energy generation** – Far-from-shore wind farms
- **Eco homes** – Ainsworth-Hales house
- **Become an author** – 2020 begins with publication of *Designing Buildings Wiki* 9000th article. Find out how you can help add more.
- **AT Awards** – The Beacon of Light building developments
- **Property development** – Party wall and boundary disputes
- **Language, language** – A glossary of construction slang ... and other terms

- **Infrastructure** – Five years of road investment strategy
- **Value in the new** – Conserving historic urban views. IHBC book review
- **Conserving designed landscapes** – A complex assortment of organic, build, natural and modified features
- **Condensation** – Why it occurs and how it can be prevented
- **BREEAM guidance** – Encouraging the use of contractors who operate environmental management systems.
- **Most read of the decade** – Top 10 articles and news stories
- **Domestic retrofit** – Free training videos available from BRE.
- **Email overload** – Sending one less email a day could save the UK 16,433 tonnes of carbon a year.
- **Heritage value** – The theory and evaluation concealed within professional judgment
- **Brexit** – Can the heritage of Europe help to integrate the UK?
- **Starting a new project?** – Follow this step-by-step project plan.
- **Most read news** – Grenfell Tower continued to dominate the news in 2019

This month also contains **news (as of 3 January 2020)** from the following organisations and online journals incl.

- Construction Enquirer, Jan 3 – Manufacturer fire-tests cladding panels to prove safety.
- Dezeen, Jan 3 – Studio creates ‘designer’ solar panel collection
- GOV.UK, Jan 3 – Government pledges funding to crack down on criminal landlords
- Construction Enquirer, Jan 2 – 14 firms win framework places on government contracts
- The Construction Index, Jan 2 – Contractor manages to sign a new deal every day of 2019
- The Guardian, Dec 31 – Low interest rates give rise to £5m+ mortgages
- GOV.UK, Dec 31 – Energy users save £1 billion on bills in 2019
- Dezeen, Dec 30 – 12 iconic buildings that may be completed in 2020
- The Guardian, Jan 1 – Zero-carbon energy outstrips fossil fuels in Britain across 2019
- BBC, Dec 31 – William and Kate offer a prize to ‘repair the Earth’
- GOV.UK, Dec 31 – Modernist works by Hepworth and others gifted to the nation
- 24housing, Dec 30 – Property sector presses PM for a Minister for Renting
- The Guardian, Dec 27 – How Brexit has affected the UK economy
- Construction Enquirer, Dec 30 – Industry luminaries pick-up New Year’s Honours
- GOV.UK, Dec 30 – MHCLG pledges more support for high streets
- Dezeen, Dec 28 – Top 10 China architecture projects of 2019
- The Guardian, Dec 28 – Many high-rise flat owners find their properties are worthless
- **BBC long read of 2019 – 100 years of the council estate (see further information below)**
- The Guardian, Dec 27 – Microplastic pollution is raining on London.

‘Designing Buildings Wiki’ is an industry-wide, cross-discipline forum for finding and sharing information, covering the following subject areas/categories that include:

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](http://DesigningBuildings.co.uk Wiki), (2019) [online]. Further information is available at: www.designingbuildings.co.uk/wiki/Home [accessed 2 January 2020]

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

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

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

Category – Project Activities

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

Category – Legislation

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

Category – Industry context

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

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

Source: **Designing Buildings.co.uk Wiki**, (2017) 'Most popular articles in each subject area' [online], last edited 11 May 2017. Further information is available at: [www.designingbuildings.co.uk/wiki/Home and www.designingbuildings.co.uk/wiki/Most popular articles in each subject area](http://www.designingbuildings.co.uk/wiki/Home_and_www.designingbuildings.co.uk/wiki/Most_popular_articles_in_each_subject_area) [accessed 2 January 2020]

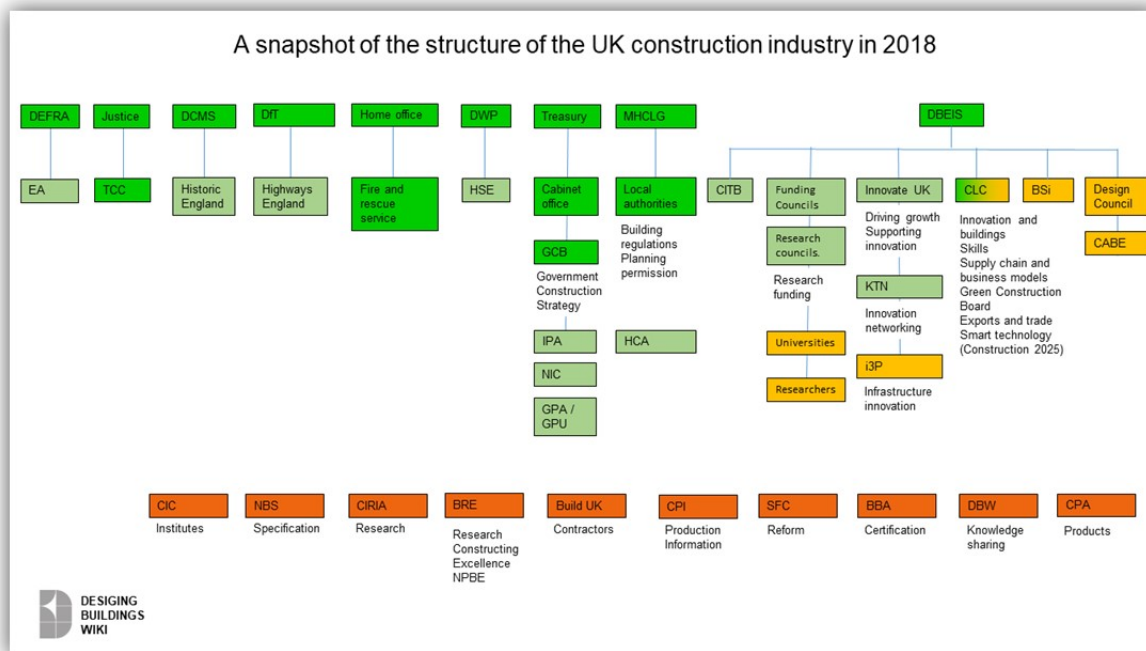
Related Link:

Designing Buildings.co.uk Wiki, (2017) 'Types of drawings' [online], last edited 5 October 2018. Further information is available at: [www.designingbuildings.co.uk/wiki/Home and www.designingbuildings.co.uk/wiki/Types of drawings for building design](http://www.designingbuildings.co.uk/wiki/Home_and_www.designingbuildings.co.uk/wiki/Types_of_drawings_for_building_design) [accessed 2 January 2020]

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

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Fragmentation of the UK construction industry



Source: **Designing Buildings.co.uk Wiki** (2018), 'Fragmentation of the UK construction industry' [online], last edited 8 June 2018. Further information is available at: https://www.designingbuildings.co.uk/wiki/Fragmentation_of_the_UK_construction_industry [accessed 2 January 2020]

The UK construction industry has always been complex and diverse, and the modern industry, with its separation of design and construction has to some extent always been fragmented. But despite the development of the 'design and built' procurement route, integrated project teams and the introduction of collaborative practices, there is strong evidence that industry fragmentation has become progressively worse

since the 1950s. This is thought to contribute to poor performance, low investment, poor skills and a lack of innovation.

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

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

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

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

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

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

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

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

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

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

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

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

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

www.designingbuildings.co.uk/wiki/Fragmentation_of_the_UK_construction_industry [accessed 2 January 2020]

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Construction industry institutes and associations

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

Designing Buildings Wiki, 'Construction industry institutes and association', **A to F** [online]. Available at: www.designingbuildings.co.uk/wiki/Construction_industry_institutes_and_associations_A_to_F [accessed 2 January 2020]

Designing Buildings Wiki, 'Construction industry institutes and association', **G to Z** [online]. Available at: www.designingbuildings.co.uk/wiki/Construction_industry_institutes_and_associations_G_to_Z [accessed 2 January 2020]

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Designing Buildings Wiki – Student resources

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

www.designingbuildings.co.uk/wiki/Student_resources [accessed 2 January 2020] – *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 credible source.

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

This can be avoided by following two simple rules:

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

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The Construction Information Service (CIS) – Insight 2020 Latest Edition

- *CIS Insight* (2020 Latest Edition) –

This month's *Insight* focuses on 'CIS 2019 – a summary of changes' incl.

- New Building Regulations Insight areas
- Expanded content range
- Improved search

Abstract

As 2019 ends, the CIS team thought that we'd share a summary of changes we've made to the service over the past 12 months. Highlights include five new Internet Sections to make access and keeping up with changes to Building Regulations easier, expanded content set and improved user experience through better search and wider company administrative functions.

New Interest areas for Building Regulations

Earlier in 2019, CIS added five new Building Regulation-related interest areas. There were several reasons for doing this.

- User feedback highlighted that some people were having difficulty locating specific regulations-related documents using existing methods. Replacing quick links with Interest areas making navigating those document sets easier.
- As a result of the Grenfell tragedy, CIS anticipated a series of importance changes to Regulations. CIS felt that Interest areas would be the best way to help users keep abreast of those changes.
- CIS 2018 customer satisfaction survey indicated that users who used interest would like to see other relevant, key topics for the industry included. Key among them was Building Regulations.
- CIS wanted to encourage more user to take advantage of MyCIS, a personalisation feature that allows users to adapt CIS to their needs. Among other things, MyCIS lets users pin and follow Interests and receive alerts to any content changes.
- CIS Information specialists put a lot of effort into adding value to the Building Regulation content set through highlighting and promoting key documents and explaining relationships between the different publications. Interests allows CIS to showcase that value.

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

Source: NBS (2019), The Construction Information Service (CIS) – *Insight January 2020: ‘CIS 2019 – a summary of changes’* NBS [online]. Further information available at: www.thenbs.com/knowledge [accessed 32 January 2020]

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

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The Smith Institute

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

Economy and Finance	This policy theme includes work on macro-economics, trade, tax and finance. The Smith Institute's work in this area has looked at the relationship between fairness and a strong economy.
Government and Politics	The Institute is interested in constitutional reform, active citizenship and political participation. Future work will be exploring voting trends, the interplay between politics and policymaking and improving political engagement.
Sustainability and Environment	The Institute's work in this field has looked at food supply, homeworking, eco-housing, and energy policy.
Business and Third Sector	This policy theme includes work on the business, corporate responsibility, access to finance, charitable giving and social enterprises. This year our work in this area will be focusing on corporate governance, business and rebalancing the economy, and the third sector and public services.
Local Government Cities and Regions	This policy theme includes work on the devolution and regional economic disparities and development. The economic downturn is exacerbating the gap between London (and the Greater Southeast) and other areas of the UK. Set against this backdrop the Institute is continuing work on city-regions, economic geography and localism.
Housing and Regeneration	This policy theme includes work on social housing, private rented sector, eco-towns, regeneration, suburbia, and urban renewal. The Institute's work this year will be mainly focused on funding social housing, eco-homes, and place-making.
Work and Welfare	This policy theme includes work on wages, good work employment, welfare, worklessness, pay, outsourcing and skills. The Institute recently undertook a major inquiry into making undertaken by Ed Sweeney (former chair of ACAS) into Making Work Better. This report was widely welcomed including support from the Labour party, unions and the EEF. The Institute's future work programme is going to focus on procurement, living wage, employment protection and will focus on some of the main themes from the <i>Making Work Better</i> 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 2 January 2020]



Access **The Smith Institute's Policy Tracker**

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Latest Research from The Smith Institute incl.

Safe as Houses 3: Have government reforms to Universal Credit reduced the rent arrears of Southwark's tenants?

This report was commissioned by the London Borough of Southwark. The aim of the report is to better understand the impact that Universal Credit (UC) has had on the rent payment behaviour of the borough's own social housing or "council" tenants.

The report focuses on two main questions: first, whether there has been an improvement in rent payment behaviour since reforms to UC were introduced in 2018; and second, to see what the impact of UC has been long after tenants have transitioned onto the new benefit.

To answer these questions the report analyses and compares the experiences of two groups of tenants that transitioned onto UC at different times. The first group did so between August to October 2016 and the second between April and June 2018.

By examining the rent payments for the second group the report captures a group that should have benefited from a number of significant changes to UC policy announced in the 2017 Budget 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 (HB) run-on.

This report is the third the Smith Institute has produced for Southwark Council tracking the impact of UC on rent payments but the first to look at UC post reform. The first report, 'Safe as House: the impact of Universal Credit on tenants and their rent payment behaviour in the London boroughs of Southwark and Croydon, and Peabody' was published in October 2017. It involved other social landlords whose tenants were affected by the early experience of UC full service rollout and examined the impact of UC roll-out on rent payments among those claiming the new benefit compared with those on HB. The second report, 'Safe as Houses 2: A follow-on report into the impact of Universal Credit on Southwark Council's housing tenants rent payment behaviour' was published in November 2018.² Unlike the first report it examined only tenants in Southwark's housing stock. The focus was on the longer-term picture and comparing the two different cohorts transitioning to UC a year apart to see if the system was improving with time.

Like the 2018 report the analysis in this report is focused on tenant's rent accounts. As such, it does not include the human cost which was highlighted in the first Safe as Houses report. Nor does the report provide details about other costs that the council has to bear, be it the impact on its Housing Revenue Account, development or housing improvement plans or the additional workload on officers supporting tenants. Nor does it include the additional burden facing tenants, including stress or knock on financial implications such as personal debt.

What the data does demonstrate through the rent accounts analysis is the experience of those who are known to have made an effective claim for UC either in 2016 or 2018. 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 costs. These tenants of working age and reliant on the benefit system to help pay their rent.

This latest study draws on previous findings, including using the results from the first report on the rent payments of tenants that moved into the legacy HB system to act as a baseline for some comparisons. The report also seeks to understand whether rent payments improve with time and arrears are paid down. It also compares the two groups to examine whether reforms at a national level or within the council have led to improved outcomes, and, if so, in what way. Such insights presented without prejudice are intended to help improve what remains a relatively new and untested system.

Hunter P, Smith Institute (2019), '*Safe as Houses 3: Have government reforms to Universal Credit reduced the rent arrears of Southwark's tenants?*' [online]. Further information is available at: www.smith-institute.org.uk/book/safe-as-houses-3-have-government-reforms-to-universal-credit-reduced-the-rent-arrears-of-southwarks-tenants/ [accessed 2 January 2020]

Further information and access to the series incl.: **All Reports; Housing**; Tagged with: **2019**.

The Smith Institute, Publications [online] and available at: www.smith-institute.org.uk/?post_type=books [accessed 2 January 2020]

Related Links:

Hunter P, Smith Institute (2018), '*Safe as houses 2: A follow-on report into the impact of Universal Credit on Southwark Council's housing tenants rent payment behaviour*' [online]. Further information is available at:

www.smith-institute.org.uk/book/safe-as-houses-2-a-follow-on-report-into-the-impact-of-universal-credit-on-southwark-councils-housing-tenants-rent-payment-behaviour/ [accessed 2 January 2020]

Hunter P, Smith Institute (2017), '*Safe as houses: The impact of universal credit on tenants and their rent payment behaviour in the London boroughs of Southwark and Croydon, and Peabody*' [online]. Further information is available at: www.smith-institute.org.uk/book/safe-houses-impact-universal-credit-tenants-rent-payment-behaviour-london-boroughs-southwark-croydon-peabody/ [accessed 2 January 2020]

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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/book/the-unspoken-decline-of-outer-london-why-is-poverty-and-inequality-increasing-in-outer-london-and-what-needs-to-change/ [accessed 2 January 2020]

The Smith Institute, Publications [online] and available at: www.smith-institute.org.uk/?post_type=books [accessed 2 January 2020]

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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 2 January 2020]

The Smith Institute, Publications [online] and available at: www.smith-institute.org.uk/?post_type=books [accessed 2 January 2020]

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#notjustfor boys / women in construction

- This collection of essays highlights the barriers to working in the construction industry that women face and demonstrates how things can be improved

It is two years since The Smith Institute first published this collection of essays. Over that time the number of women in work has increased to nearly half the workforce, with many more in professional and technical jobs. Unfortunately, one area where change has been less forthcoming is the number of women working in construction and the manual trades.

Nevertheless, efforts are being made by employers, unions, professional organisations, government, schools, training agencies and others to encourage more women into the construction industries and offer support once in work. This kind of concerted action to significantly improve both recruitment and retention is far from easy, but as the Construction Youth Trust's #notjustforboys campaign (more details are at the end of the report) shows misconceptions, prejudice and bad practices that are at the root of the problems can be over-turned and young people can be inspired to think differently. Worsening skills shortages and the prospect of post-Brexit restrictions on migrant labour mean UK construction will have to recruit more women. Failure to act will damage our future prosperity.

Jowett A, Bagilhole B, Townley C [et al.], September 2016, *#notjustforboys – women in construction* [online]. Further information and access to the report is available at: www.smith-institute.org.uk/book/notjustforboys-women-construction/ [accessed 2 January 2020], London: The Smith Institute

The Smith Institute, Publications [online] and available at: www.smith-institute.org.uk/?post_type=books [accessed 2 January 2020]

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 2 January 2020]

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 2 January 2020]

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National Trust (NT), a charity that works to preserve and protect historic places and spaces – for ever for everyone

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 (2019) NT [online] and available @ www.nationaltrust.org.uk/ [accessed 2 January 2020]

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 Incl. (as at 19 December 2019)

- **Standing up for nature** – As the UK government writes new nature laws, the NT have a once-in-a-lifetime opportunity to protect and restore the countryside we love
- **Brexit and the future of farming**
- **Phasing out single use plastics** (further information is provided in the Sustainability Hub)
- **NT response to major HS2 consultation,**
- **Stonehenge A303 Road Improvement Scheme,**

and more.

Further information is available at:

Source: The National Trust (2019), 'Our views' [online]. Further information is available at: www.nationaltrust.org.uk/our-views [accessed 2 January 2020]

Planning and Infrastructure

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 (2019), *Why the National Trust cares about planning* [online] and further information is available at @ www.nationaltrust.org.uk/features/land-use-and-planning [accessed 2 January 2020]

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National Trust – “Our planning principles”

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

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

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

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

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

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

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

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

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

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

National Trust (2019), *Our planning principles* [online] and further information is available @ www.nationaltrust.org.uk/features/our-planning-principles [accessed 2 January 2020]

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National Trust – “How we engage in planning: our role as a developer”

“We are an independent conservation charity looking after a quarter of a million hectare of land, 775 miles of coastline, hundreds of houses and thousands of archaeological monuments and historic buildings, large and small.” (National Trust, 2016)

The National Trust’s planning procedure

In the course of National Trust work, they’re responsible for some new development. Whether it’s for a new visitors’ centre or a new green energy project, this means that they’re a participant in the planning system. Sometimes they apply for a change of use of a building to give it a productive future use or to aid farm or estate diversification.

Very occasionally the National Trust seek to develop ‘investment’ land to meet an identified housing need. Sometimes donors specifically offer land with development potential to help pay for conservation work in the future.

The National Trust's conservation purposes are paramount so in all cases where they apply for planning permission, they look to include sustainable development principles, seeking to minimise resource use, waste and pollution; safeguard landscape, wildlife and historic interest; respect local distinctiveness; and provide better access, and a safe and healthy environment.

The National Trust have developed the following criteria to ensure only suitable projects proceed:

- Adhere to the policies in the relevant local plan.
- Deliver energy efficiency and reduce carbon dioxide emissions.
- Build in harmony with the local environment, built and natural.
- Involve the local community throughout the process.

The 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 (2019), *How we engage in planning: our role as a developer* [online] and further information is available @ www.nationaltrust.org.uk/features/how-we-engage-in-planning-our-role-as-a-developer [accessed 2 January 2020]

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Planning at a national level

- Across England, Wales and Northern Ireland, the National Trust look after a quarter of a million hectares of land, 775 miles of coastline, and thousands of archaeological monuments and historic buildings, large and small. Every year many millions of people enjoy the special places in the National Trust's care.

The National Trust's role - As an organisation rooted in the importance of place, the Trust has always looked beyond its own boundaries to achieve its core purpose. Founded to preserve and provide access to places of natural beauty or historic significance, the National Trust supporters were a voice against urban sprawl and ribbon development in the 1920s, and advocates of the Town and Country Planning Act, which became law in 1947.

Government's planning rules for housing development and land use – The Government's National Planning Policy Framework (NPPF) is the main set of rules that apply to planning decisions and local plan-making in England. The NPPF, introduced in March 2012, should ensure that development is steered to the most appropriate places. Planning development should not be weighted in the interests of purely economic development, but integrate the needs of people, places and the economy.

When the NPPF was being drawn up, the Prime Minister wrote to the National Trust to reassure them that 'our magnificent countryside' would continue to be protected. The Prime Minister at the time said the reforms would 'maintain protections for the green belt, for National Parks and Areas of Outstanding National Beauty,' and would 'strengthen local participation'.

Monitoring Government's plan-led system – Since the NPPF came into force in March 2012 the National Trust has been checking that the Government's intentions are being delivered at ground level.

For further information, visit

National Trust (2019), *Planning at a national level* [online] and further information is available @ www.nationaltrust.org.uk/features/planning-at-a-national-level [accessed 2 January 2020]

&

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 (2019), *Planning at a local level* [online] and further information is available @ www.nationaltrust.org.uk/features/planning-at-a-local-level [accessed 2 January 2020]

Related links:

GOV.UK, Ministry of Housing, Communities and Local Government (2016), Collection: 'Planning practice guidance', GOV.UK [online], **Last updated May 2019**. Available at: www.gov.uk/government/collections/planning-practice-guidance [accessed 2 January 2020]

GOV.UK, Ministry of Housing, Communities and Local Government (2012), Policy Paper: National Planning Policy Framework, GOV.UK [online], **Last updated February 2019**. Available at: www.gov.uk/government/publications/national-planning-policy-framework--2 [accessed 2 January 2020]

Further information is available via the National Trust Social Media sites:



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Upcoming Revo (formerly BCSC) Research

Revo (formerly BCSC) continues to develop a research programme that reflects industry knowledge requirements. They continue to undertake challenging projects and are seeking to find a balance between in-depth research and other shorter forms of guidance. Revo (formerly BCSC)'s committees continue to help shape and steer our research and it is through this process that topical and under-researched areas are explored.

Some recently published research includes:

- Beyond Retail: Redefining the shape and purpose of town centres
- CCTV in Shopping Centres and Associated Car Parks
- Building Information Modelling (BIM) – Guide to Best Use
- Protection of Vulnerable People
- Servicing Areas for Shopping Centres

Further Research + Education information and access to documents can be found at Revo community (formerly British Council of Shopping Centres (BCSC)), Research and Education, and **Document listing** [online] available @ www.revocommunity.org/documents/list [accessed 2 January 2020] and www.revocommunity.org/insights [accessed 2 January 2020]

Foster + Partners Projects

Foster + Partner is one of the most innovative architecture and integrated design practices in the world. Over the past four decades the practice has pioneered a sustainable approach to architecture through a strikingly wide range of work, from urban masterplans, public infrastructure, airports, civil and cultural buildings, offices and workplaces to private houses and product design. Based in London, with offices worldwide, the practice has an international reputation, with buildings in six continents. By visiting their website, you can gain further information about their current and past work, upcoming projects and gain access to the following:

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

Available via the Foster + Partners website [online] and @ www.fosterandpartners.com/projects/ [accessed 2 January 2020]



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Building Information Modelling (BIM) -

What is Building Information Modelling?

-There are many definitions of Building Information Modelling (BIM), but it is simply the means by which everyone can understand a building through the use of a digital model. Modelling and asset in digital form enables those who interact with the building to optimize their actions, resulting in a greater whole life value for the asset.

Through BIM the UK construction industry is undergoing its very own digital revolution, BIM is a way of working; it is information modelling and information management in a team environment, all team members should be working to the same standards as one another. BIM creates value from the combined efforts of people, process and technology.

Source: National Building Specification (NBS), 3 August 2016, 'What is Building Information Modelling (BIM)?' [theNBS.com](http://www.thenbs.com) website [online]. Further information is available at www.thenbs.com/knowledge/what-is-building-information-modelling-bim [accessed 2 January 2020]

Note: Further information can also be accessed through the above provided web link on: **BIM (Building Information Modelling)** and access to '**what is BIM**' video.

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[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 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

- Oa: Business justification
- Ob: 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 2 January 2020]

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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The National Building Information Modelling (BIM) Library –

Source: NBS (2016), *NBS National BIM Library* [NBS website > Home > Services > Our Tools > NBS National BIM Library] NBS [online] and available at: www.thenbs.com/services/our-tools/nbs-national-bim-library & NBS homepage [online] and available at: www.thenbs.com/ & NBS Knowledge [online] and available at: www.thenbs.com/topics/index.asp [accessed 2 January 2020]

Latest information freely available to access and download incl. **Introducing the BIM Toolkit** [online]. Available at: www.thenbs.com/topics/BIM/articles/NBS-live-introducing-the-BIM-toolkit.asp [accessed 2 January 2020]

The National BIM (Building Information Modelling) Library is the construction industry's free-to-use resource of NBS standard BIM content.

- **BIM (Building Information Modelling)**

The revolutionary force of Building Information Modelling continues to reverberate insight and analysis on BIM from NBS incl.

- **NBS Services for BIM**

NBS Services for BIM Projects; NBS Create; NBS Toolkit; NBS National BIM Library; and NBS Plug-ins

- **Further information and guidance incl.**

NBS National BIM Survey 2016; What is BIM? Levels of Information; Employers' information; Are you BIM ready? And latest articles relating to BIM

Source: NBS (2016), *NBS National BIM Library* [online] and available at: www.thenbs.com/services/our-tools/nbs-national-bim-library & NBS homepage [online] and available at: www.thenbs.com/ & NBS Knowledge [online] and available at: www.thenbs.com/topics/index.asp [accessed 2 January 2020]

New Building Specification (NBS), NBS TV - the online video resource servicing built environment professionals.

- Case Studies • Technical Guidance • Interviews • Leading Industry Figures incl.

Watch now on NBS TV ⇒ Design and Specification, and Building Technologies – NBS round-up latest articles featuring video content

Source: The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website @theNBS [online]. Further information is available at: www.thenbs.com/knowledge/video [accessed 2 January 2020]

The NBS, NBS TV – Design & Specification [online]. Further information and additional programmes are available at: www.thenbs.com/knowledge/design-specification [accessed 2 January 2020]

The NBS, NBS TV – Building Technologies, *Lighting Technology – Building in Efficiency* [online]. Further information and additional programmes are available at: www.thenbs.com/knowledge/lighting-technology-building-in-efficiency [accessed 2 January 2020]

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NBS BIM Toolkit BETA update -

The NBS BIM Toolkit is the easy way to define who is doing what, and when, on your Level 2 BIM projects.

Further information can be accessed at The National BIM Library [online] and available @ www.thenbs.com/services/our-tools/nbs-bim-toolkit [accessed 2 January 2020]

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

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 2 January 2020]

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 2 January 2020]

NBS National BIM Report 2017 - The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website, *NBS National BIM Report 2017 @theNBS* [online] and available at: www.thenbs.com/knowledge/nbs-national-bim-report-2017 [accessed 2 January 2020]

NBS National BIM Report 2016 - The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website, *NBS National BIM Report 2016 @theNBS* [online] and available at: www.thenbs.com/knowledge/national-bim-report-2016 [accessed 2 January 2020]

NBS International BIM Report 2016

- The second NBS International BIM Survey, carried out by NBS, working closely with the International Construction Information Society, provides a fascinating insight into BIM adoption and maturity across five diverse countries.

Source: The NBS (a trading name of RIBA Enterprises Ltd), 25 February 2016, National BIM Library website, Knowledge, *NBS International BIM Report 2016* [online]. Further information and access to the report in full are available at: www.thenbs.com/knowledge/nbs-international-bim-report-2016 [accessed 2 January 2020]

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[Blogging about BIM, Construction and NBS](#)

Source: The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website [online]. Further information and access to the BLOG are available at: <http://constructioncode.blogspot.co.uk/2015/04/nbs-national-bim-report-2015.html> [accessed 2 January 2020]

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Latest News on BIM -

[Free embodied carbon calculator to help move to greener buildings](#)

A free app for measuring the embodied carbon emissions of building materials has been launched in beta form. The open-access Embodied Carbon in Construction Calculator (EC3) is based on the industry's first database of digitised Environmental Product Declarations (EPDs) and will allow users to easily evaluate and reduce embodied carbon emissions from construction materials, effectively empowering them to reduce embodied carbon within buildings.

The building and construction sector has a vital role to play in eliminating carbon, as it is responsible for nearly 40% of global greenhouse gas (GHG) emissions.

It has been reported that embodied carbon will be responsible for almost half of total new construction emissions between now and 2050. Unlike operational carbon emissions, which can be reduced over time with building energy-efficiency renovations and the use of renewable energy, embodied carbon emissions are locked in as soon as a building is built.

"It is critical that owners, designers, engineers, contractors and policy makers turn their attention to building materials and seek information that will pave the way to reduce embodied carbon," said Kate Simonen,

director of the Carbon Leadership Forum and professor in the College of Built Environments at the University of Washington.

“Recognising this imperative, the Carbon Leadership Forum and nearly 50 industry leaders came together to offer their expertise, committed to a tool that was free to use and part of a growing open-access embodied carbon data ecosystem.”

A number of multinationals have worked with the Carbon Leadership Forum to produce the tool, including Autodesk in collaboration with Skanska, C Change Labs and nearly 50 other partners.

The EC3 tool is the first free tool that allows for supply chain specific analysis of embodied carbon data, using the first searchable and sortable database of all US and Canadian Environmental Product Declarations for concrete, steel, wood, glass, aluminium, insulation, gypsum, carpet and ceiling tiles.

In addition, it is the first tool to create a digital EPD form and to translate all EPDs into that form for viewing and analysing the data, rather than using PDF-based systems.

Further information is available at:

Source: BIM+ (2019) ‘Free embodied carbon calculator to help move to greener buildings’, *BIM+* [online], 24 November. Available at: www.bimplus.co.uk/technology/free-embodied-carbon-calculator-help-move-greener/ [accessed 2 January 2020]

Related Links:

- 1) Cousins S (2019) ‘Virtual Reality key to study of high-rise building sway’, *BIM+* [online]. Available at: www.bimplus.co.uk/technology/virtual-reality-key-study-high-rise-building-sway/ [accessed 2 January 2020]
- 2) Winfield M, Croft A and Gibbs Dr D-J (2019) ‘The new JCT practice note on BIM: the how and why’ [online]. Available at: www.bimplus.co.uk/news/planradar-project-management-software-launches-uk/ [accessed 2 January 2020]
- 3) 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 2 January 2020]
- 4) 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 2 January 2020]
- 5) 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 2 January 2020]
- 6) CM staff (2019) ‘**New international BIM standard launched**’, *Construction Manager* [online], 22 January. Available at: www.constructionmanagemagazine.com/news/new-international-bim-standard-launched/ [accessed 2 January 2020]
- 7) 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 2 January 2020]
- 8) 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 2 January 2020]
- 9) GCR Staff (2018) ‘US company develops “spell checker” for BIM code violations’, *Global Construction Review (GCR)*, Chartered Institute of Building (CIOB) website [online] 22 June. Further information is available at: www.globalconstructionreview.com/news/us-company-develops-spell-checker-bim-code-violati/ [accessed 2 January 2020]
- 10) BIM+ Staff (2018) ‘First international BIM standards to be published this year’, Chartered Institute of Building (CIOB) website [online] 10 June. Further information is available at: www.bimplus.co.uk/news/first-international-bim-standards-be-published-yea/ [accessed 2 January 2020]

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

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

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

Other collections incl.

- Real Estate Development
- Property Inspection and Maintenance
- Real Estate Management
- Housing and Urban Regeneration
- Property and Real Estate Law
- Economics and Finance
- Valuation and Surveying
- [Property and Real Estate catalogue](#)
- [Property, Construction and Real Estate, Student Edition](#)

Taylor & Francis Open and **Routledge Open** - Taylor & Francis and Routledge currently publish several pure open access journals, with **no subscription** content. The articles in these journals receive both rigorous peer review and expedited online publication @ www.tandfonline.com/page/openaccess [accessed 2 January 2020] For further information, please visit **Taylor & Francis online, FREE-to-view compilations** [accessed 25 November 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 2 January 2020]

The Routledge Sustainability Hub – An innovative Knowledge Centre for the global sustainability community, this Hub offers a wide range of resources for everyone – whether you are a teacher, a student, a professional or a citizen of the earth curious to discover more about the many facets of sustainability. Further information can be accessed [online] and available at www.routledge.com/textbooks/sustainability [accessed 2 January 2020]

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RICS Library services and e-Resources



Source: UCEM (2019)

RICS (Royal Institution of Chartered Surveyors) is an international professional body and represents everything professional and ethical in land, property and construction. RICS promotes and enforces the highest professional qualifications and standards in the development and management of land, real estate, construction and infrastructure. Their expertise covers property valuation and management; the costing and leadership of construction projects; the development of infrastructure; and the management of natural resources, such as mining, farms and woodland. RICS Library Services [online]. Available at: www.rics.org/uk/footer/library-services/ [accessed 2 January 2020].

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



Top searching tips from *Lucy* the Librarian –

NOTE: For the above link to work you must ensure that you are in the **VLE e-Library**, have clicked the **Library login** and have your **Athens** account open. Once you are in Athens open, select **Emerald Insight** from the **Resources** listed.

In addition to this please 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.

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& finally

When council estates were a dream – 100 years of the council estate

- A review of 100 years of the council estate with the following sections incl.

- Homes for heroes
- Right to buy
- The stigma
- Rebuilding

Author: Ashley John-Baptiste

Additional reporting: Lora Jones

Graphics: Debie Loizou and Lilly Huynh

Photography: Phil Coomes

Additional photography: Getty Images, Alamy, PA, Reuters, Manchester Architects and Local Studies

Online production: Ben Milne

Editor: Finlo Rohrer

Publications date: 4 July 2019

Source: John-Baptiste A, BBC News (n.d.) 'When council estates were a dream', BBC News [online]. Available at: www.bbc.co.uk/news/extra/iZKMPd0wjP/council_housing#group-Homes-for-heroes-8HNNH6JvNOM [accessed 3 January 2020]

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Property and Construction Statistics

RICS Economy and Property Market Chart Book – Q4 2019

- The downturn in the retail sector is far from over

The latest (see publication date) estimates by the ONS point to quarter-on-quarter GDP edging up by 0.3% in Q3 2019. Although this represents a pick-up in output following a modest decline in Q2, this result still came in below the consensus and the Bank of England's forecast of 0.4%. Significantly, there is little reason to anticipate a material pick-up in momentum in the run up to the end of the year with the drag from heightened economic and political uncertainty as well as a weakening global picture continuing to depress UK growth.

The picture remains particularly downbeat across the retail portion of the commercial property market -

Furthermore, this year will go down as having been a particularly challenging one for the high street. Mainly on the back of the ongoing structural shift towards online shopping, there were almost 2,900 store closures in the first half of 2019 (estimated by PWC), the highest in over five years. Meanwhile, a whole host household names including Marks & Spencer, Debenhams, Homebase and Mothercare are looking to scale back their footprint. This has been exerting significant pressure on the retail portion of the commercial property market with key indicators suggesting it is, if anything, becoming more pronounced. According to CBRE, retail rental values have declined in each of the last four quarters.

Around a fifth of all retail sales are now made online compared to just 5% a decade ago. Retail landlords have had to bear the brunt of this enormous change in consumer spending habits. These challenges are most clearly visible through the responses to the RICS UK Commercial Property Survey, which show that, in net balance terms, availability of vacant retail space has risen sharply in the past two years. In turn, landlord incentives provided to tenants, such as rent-free periods, have risen for ten straight quarters.

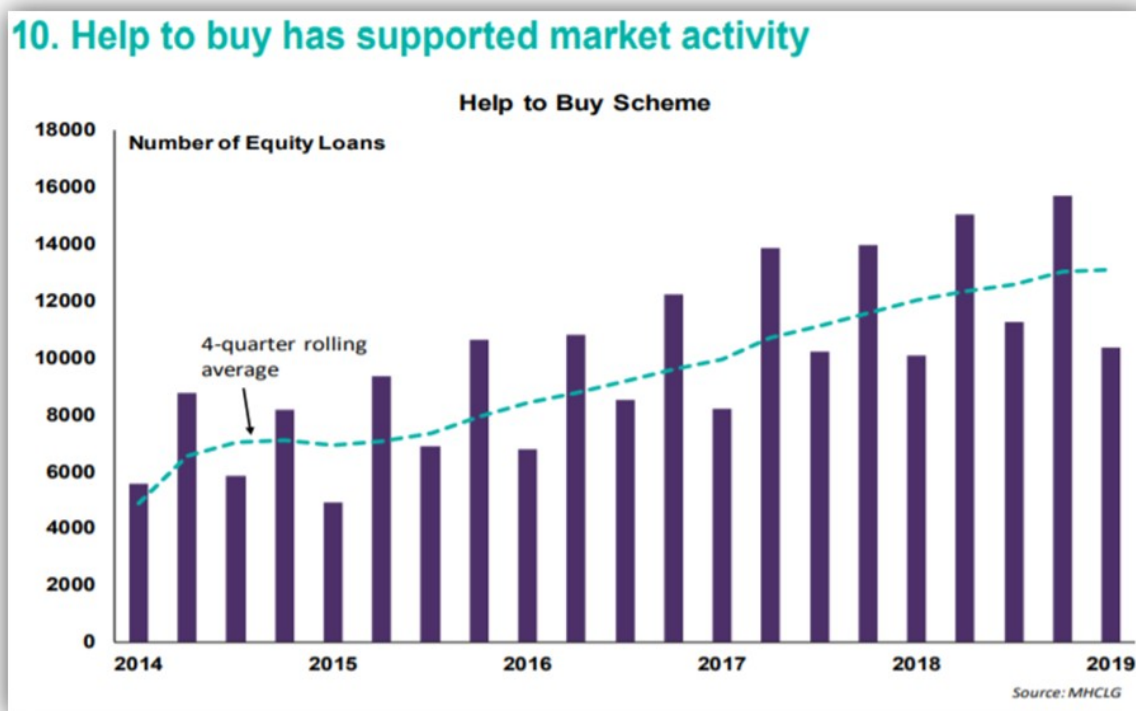
Against this backdrop, retail rental values are expected to fall further in the near term. RICS contributors expect prime rental values to drop by 4% over the next twelve months. Projections for secondary space are more downbeat in comparison, with rents envisaged to decline by around 7% over the same period.

Pace of construction output growth has moderated – The headline RICS workloads series is pointing to a dip in momentum across the construction sector. In the latest set of results, growth in workloads slowed across all segments of the market including private housing which suggests that it is going to prove difficult to lift housing supply much above the current run-rate. It is also noteworthy that business enquiries for new projects or contracts in the past three months, which had averaged a net balance of 15% over the previous year are now reportedly flat.

Source: RICS (2019), Knowledge, RICS Market Surveys – *RICS UK Economy and Property Market Chart Book, Q4 2019*, RICS, London [online]. Available at: www.rics.org/uk/news-insight/research/market-surveys/uk-chart-book/ [accessed 3 January 2020].

Chart 10 – Housing Market – Help to buy has supported market activity in Q4 2019

- Independent evaluation by the Ministry of Housing, Communities and Local Government (MHCLG) show that the Help to Buy scheme has helped increase housing supply and accounted for 38% of new build property sales between 2013 and 2018. Chart 10 shows that the popularity of the scheme has risen over the past six years. Critically, there is a chance that momentum in the housing market could dip further ahead as the scheme is pared back in the medium term. (see Chart 10 below).

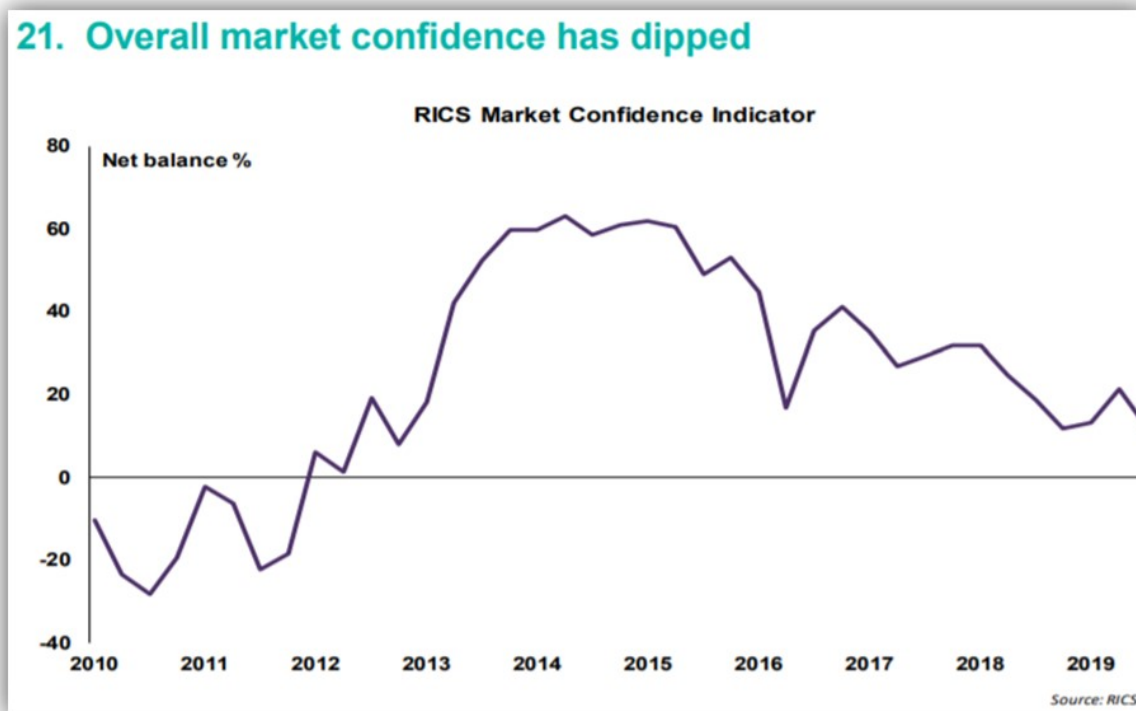


Source: RICS Economics Research: *RICS UK Economy and Property Market Chart Book* (Q4, 2019), page 8

Chart 21 – Construction sector – Overall market confidence has dipped

- The latest RICS survey results also point to a fall in optimism in the construction sector. The market confidence indicator, a composite measure of workloads, employment and profit margin expectations, slipped to +12%, a considerable drop relative to an average of +39% in the last five years (see Chart 21 below).

21. Overall market confidence has dipped



Source: RICS Economics Research: *RICS UK Economy and Property Market Chart Book* (Q4, 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 3 January 2020]

These include:

- **UK Residential Market Survey.** **Note: The latest survey, dated November 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. **Latest – Housing Market forecast: 2019**
- Cyprus Property Price Indices – A quarterly price and rental index that tracks property and rental prices across all districts
- Hong Kong Residential Market Survey – a leading sentiment indicator of conditions in the Hong Kong residential sales and lettings markets.
- RICS/Ci Portuguese Housing Market Survey – a leading sentiment indicator of developments in the Portuguese residential sales and lettings markets.
- RICS/RAU Rural Land Market Survey and Land Prices – the leading survey on demand, supply and prices in the farmland market. The RICS/RAU Farmland Market Directory of Land Prices was launched by RICS's Rural Professional Group after the Farmland Market ceased publication.
- **UK Chart Book and Survey Market Updates** – A monthly snapshot of the UK economy, focusing on the construction, housing and commercial property sectors. **Note: For the latest (Q4 2019), please see above.**
- **UK Commercial Market Survey – a leading indicator of developments in the UK commercial property occupier and investor markets. Latest - Q1 2019**
- UK Construction and Infrastructure Survey – the leading sentiment indicator of the UK construction and infrastructure markets. **Latest - Q1 2019**

RICS (2019), Research, Market Surveys [online], London: RICS. Available at: www.rics.org/uk/news-insight/research/market-surveys/ [accessed 2 January 2020]

N.B. The RICS published reports, entitled i.e. 'UK Commercial Property Market Survey', can be accessed through **ISURV** [online], available via the **VLE e-Library** and **section 5 – Industry Sources**.

Alternatively, please request a copy from the UCEM Library by emailing library@ucem.ac.uk.

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

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 September 2019 RICS Residential Market survey results suggest activity remains subdued across the sales market with headline indicators on buyer demand and supply slipping into negative territory. Much of the anecdotal commentary is pointing to heightened economic and political uncertainty as a contributing factor behind the sluggish picture. Significantly, forward looking metrics imply that the market is unlikely to gain impetus over the next three months, though sentiment over the twelve-month horizon does appear to be a little more resilient.

November 2019: UK Residential Market Survey

Market activity stagnant ahead of election

- Buyer enquiries and new instructions continue to fall, although the pace of decline eases
- Near term sales expectations turn marginally positive for the coming three months
- Respondents anticipate prices will return to growth over the next twelve months (see publication date).

By visiting the website of the Royal Institution of Chartered Surveyors [online], you can access, read-online and download surveys from the last two years.

For further information, visit the **RICS** website, and select **News & Insight > Research > Market Surveys**, and **UK Residential Market Survey** from the RICS website.

UK Residential Market Survey, November 2019 [online] and available @ www.rics.org/uk/news-insight/research/market-surveys/uk-residential-market-survey/ [accessed 2 January 2020]

RICS.org.uk www.rics.org/uk/ [accessed 2 January 2020]



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Barbour API's *Economic & Construction Market Review*

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

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

Economic and Construction Market Review includes:

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

Further information and access to the review is available via

Barbour Index API, *Economic and Construction Market Review* [online]. Available at: www.barbour-abi.com/economic-and-construction-market-review/ [accessed 2 January 2020]

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Latest Statistics from the Office for National Statistics (ONS)

Office for National Statistics (ONS), Release calendar [online]

Office for National Statistics (ONS), Release calendar [online] and available @ www.ons.gov.uk/releasecalendar [accessed 2 January 2020]

The above-mentioned link provides access to the Office for National Statistics (ONS) releases only. For official statistical releases across government [visit the Publication Hub](#) -

GOV.UK, Statistics: release calendar [online] and available @ www.gov.uk/government/statistics/announcements [accessed 2 January 2020].

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Office for National Statistics (ONS) - Construction Industry update

- Construction of new buildings and repairs or alterations to existing properties in Great Britain measured by the amount charged for the work, including work by civil engineering companies.

Office for National Statistics (2019), Business, industry and trade, Construction industry [online] and available at: www.ons.gov.uk/businessindustryandtrade/constructionindustry [accessed 2 January 2020]

From the above-mentioned webpage, you can access

Datasets, Publications/articles and Methodology, as well as **'All data'** and **'All publications'**

Please note: By visiting the ONS website homepage [online]. Available at: www.ons.gov.uk/ [accessed 2 January 2020]

- From the above-mentioned web-link, you have access to an **'A to Z of statistical bulletins'** where you can select **'C'** and refine to **'Construction'** for the latest items.

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Construction industry highlights include:

[Construction output in Great Britain: October 2019 and new orders July to September 2019](#)

- Short-term measures of output by the construction industry and contracts awarded for new construction work in Great Britain.

Contents incl.

(i) Main points; (ii) Things you need to know about this release; (iii) Construction output in October 2019; (iv) Detailed growth rates; (v) New orders; (vi) Changes in this release impacting new orders, (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 decreased by 0.3% in the three months to October 2019, compared with the previous three-month period; this was driven by a fall of 1.4% in repair and maintenance, with a smaller positive contribution from 0.3% growth in new work.
- In repair and maintenance, the fall in the three months to October 2019 was largely because of the 3.6% decline in private housing repair and maintenance, with public housing repair and maintenance also falling 0.8%.
- Construction output decreased by 2.3% in the month-on-month all work series in October 2019; this is the largest monthly fall since January 2018 when it fell by 2.6%; this was largely because of a 3.1% fall in new work, with repair and maintenance also decreasing by 0.6%.

Office for National Statistics (2019), Construction Industry, Construction output in Great Britain: October 2019 and new orders July to September 2019 [online]. Available at:

www.ons.gov.uk/businessindustryandtrade/constructionindustry [accessed 3 January 2020],
www.ons.gov.uk/businessindustryandtrade/constructionindustry/datasets/outputintheconstructionindustry

[accessed 3 January 2020], and www.ons.gov.uk/businessindustryandtrade/constructionindustry/bulletins/constructionoutputingreatbritain/october2019andnewordersjulytoseptember2019 [accessed 3 January 2020]

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Datasets related to Construction industry incl.

- **Output in the Construction Industry** – Monthly output at current price and chained volume measures seasonally adjusted by public and private sector. Quarterly non-seasonally adjusted type of work and regional data.
- **Output in the Construction Industry, All Work Summary** – Monthly output all work summary at current price and chained volume measure seasonally adjusted by public and private sector
- **New Orders in the Construction Industry** – Quarterly new orders at current price and chained volume measures seasonally adjusted by public and private sector. Quarterly non-seasonally adjusted type of work and regional data.
- **Construction output price indices** – Monthly construction output price indices (OPIs) from 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.

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Output in the Construction Industry incl.

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

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

Office for National Statistics (ONS), 11th April 2018, Article: Short-term economic indicators commentary: June 2018 [online]. Available at:

www.ons.gov.uk/economy/economicoutputandproductivity/output/articles/shorttermindicatoreconomiccommentary/june2018 [accessed 2 January 2020].

Related Link:

- The [Construction Statistics Development Work Plan](#) (104.4 Kb Pdf) provides users with information on the work that will be completed over the next 12 months, including investigations into both the nominal data and options for measuring construction price statistics.

Office for National Statistics (ONS), 11th December 2015, Release: Output in the Construction Industry, Construction Statistics Development Programme – Work Plan [online]. Available at:

www.ons.gov.uk/ons/rel/construction/output-in-the-construction-industry/construction-statistics-development-programme---work-plan/index.html [accessed 2 January 2020]. **N.B.** This item has been placed with **The National Archives** as the ONS website has now been updated.

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[Construction Statistics, Great Britain: 2018 \(Latest release – 18 October 2019\)](#)

- A range of statistics on the construction industry, including value of output, new orders by sector, number of firms and total employment.

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) Planning applications and local authority expenditure, (10) Building materials, (11) International comparisons, (12) External data sources and previously unpublished tables, (13) Quality and methodology, (14) Construction statistics engagement and development, and (15) Acknowledgements.

Within the section on **Main points** it stipulates

- The value of construction new work in Great Britain continued to rise in 2018, reaching its highest level on record at £113,127 million; this was driven by growth in public sector work of £2,697 million and to a lesser extent growth in the private sector of £750 million.
- Construction new orders fell by 13.2% in 2018, the first annual decline in growth seen since 2011; this represented a decline of £9,335 million.
- The number of construction firms operating in the construction industry has continued to rise – reaching its highest level on record – with 325,736 registered firms operating in Great Britain in 2018, increasing by 11,146 (3.5%) compared with the previous year.
- There were 16,578 new company insolvencies across the 10 industries with the most insolvencies in 2018; of these, the construction sector made up 3,202 insolvencies, which is the highest of any sector in 2018 and a 14.7% increase on the 2,792 insolvencies seen in 2017.
- Construction-related employment in Great Britain increased by 2.8% in 2018, reaching the highest level on record, with the South East, London and the East of England contributing 41.1% of total employment.
- Average weekly earnings in the construction industry in Great Britain continued to recover from a fall in 2016, increasing to £635.66 per week in December 2018, second only to the finance and business services sector.
- Labour productivity, as measured by output per hour, fell by 4.8% in construction in 2018 compared with the previous year.
- The UK trade deficit in construction materials and components was £10,574 million in 2018, with imports being more than double the value of exports as all three components of building materials saw a trade deficit.
- In comparison with the wider European Union (EU), the UK construction industry continues to see the strongest performance in the EU, but growth was slower in 2018 in comparison with recent years.

Further information is available at:

Office for National Statistics (ONS), 18 October 2019, Construction Statistics, Great Britain: 2018 [online].

Available at:

www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/2018

[accessed 2 January 2020]

Related article/Links:

Office for National Statistics (ONS), 22 August 2018, Construction Statistics, No. 19, 2018 [online]. Available at:

www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/number192018edition [accessed 2 January 2020]

Office for National Statistics (ONS), 2 October 2017, Construction Statistics, No. 18, 2017 [online]. Available at:

www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/number182017edition [accessed 2 January 2020]

Office for National Statistics (ONS), Construction Statistics Articles [online]. Available at:

www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/previousReleases [accessed 2 January 2020]

Note: As of 2016, the Office for National Statistics website was upgraded and by selecting ‘**Construction**’,

‘**Construction Industry**’, ‘**Construction Statistics**’ a wealth of information is available. ONS website @

www.ons.gov.uk [accessed 2 January 2020].

Office for National Statistics (ONS) website [online]. Further information is available at:

www.ons.gov.uk/ons/index.html [accessed 2 January 2020]



ONS, Browse by Theme [online] and available @ www.ons.gov.uk/ons/browse-by-theme/index.html [accessed 2 January 2020]. Please refer to

‘**Business and Energy**’ 
‘**Production Industries**’  and
‘**Building and Construction**’ 

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Glenigan, provider of UK construction project sales leads, market analysis, forecasting, and company intelligence

Construction Market Analysis

- Grow your business and reduce risk by using in-depth construction market analysis and robust data-driven forecasts. You can examine performance and prospects nationally; by each of the 12 Government economic regions; and 11 market segments. You can explore the market at the right state of your business whether that is during planning; at the tendering and contract phase; or when projects have started on site. This information and more can be accessed, read-online and downloaded via the

Glenigan website [online] and available at: www.glenigan.com/construction-market-analysis/news/2015-construction-kpis [accessed 2 January 2020]

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Health and Safety Executive (HSE) – Construction Statistics


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

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

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

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

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

'Statistics' 
'Industries'  and
'Construction' ,

that will take you to 'Construction Industry'.

HSE [online] and further information available at: www.hse.gov.uk/construction/index.htm [accessed 2 January 2020]

HSE, *About us* [online] and further information is available at: www.hse.gov.uk/aboutus/insidehse.htm [accessed 2 January 2020]

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GOV.UK – Construction Statistics

GOV.UK, Office for National Statistics (2017) National Statistics: '**Impact of improvements to Construction Statistics**' [online]. Available at: www.gov.uk/government/statistics/impact-of-improvements-to-construction-statistics [accessed 2 January 2020]

- The article will describe the improvements that have been incorporated into the Construction output statistics, as part of the 2017 Blue Book, and show the impact of the changes. These incorporate a seasonal adjustment review, nominal data revisions and improvements to the Construction Output Price Indices.

Related Links:

GOV.UK, Department for Business, Innovation and Skills (2013)), Collection: 'Construction Statistics', GOV.UK [online]. Further information and web links provided @ www.gov.uk/government/collections/construction-statistics [accessed 2 January 2020]

&

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 2 January 2020]

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e-Journal Review

RICS **Modus** Digital Magazine – November 2019: [The Smart Issue](#)

-This month's (November 2019) edition of Modus is a smart special, looking at the latest technology and its effect on the built environment.

In the cover feature Modus takes a closer look at the impact that AI and automation is already having on the profession. We find out more about the specific new technologies transforming surveying, how major companies are reacting, and how bold start-ups are leveraging new technology to make inroads into established sectors.

With the UN estimating that 60% of the global infrastructure needed by 2030 is yet to be built, what form should the cities of the future take? We ask whether incorporating the latest technology into their design – such as small-scale, localised renewable energy solutions, decentralised banking and smart healthcare – can these emerging metropolises leapfrog their established counterparts to become the dominant cities the future?

When even small improvements in people's wellbeing can be hugely significant, the cities of the future will be designed to make their inhabitants healthier. Using data to understand how people use the built environment, and incorporating smart technology into future design, will we see the emergence of smart cities that can not only manage existing conditions but also prevent negative health outcomes? Also, we celebrate excellence in design, innovation and community impact with the inspirational winners of the UK RICS Awards 2019.

We also take a look at how small businesses can protect their information – and their clients' – by asking five experts for their advice about how best to counter cybercrime.

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 ... /** Building bridges with biotech – the link between the built and the natural environments?
- **Opinion /** British Property Federation CEO Melanie Leech sets out how to fix the industry’s image problem
- **Chartered territory /** In the face of a housing shortage, is there any justification for building on the green belt?

Experience

- **How to ... /...** protect your company’s and your clients’ data
- **What if ... /** Renewable energy, with batteries included

This issues main features include:

- **Race against the machine /** We investigate the impact that AI and automation is already having on the industry.
- **Catch us if you can /** How mobile technology is helping cities in the Global South to leapfrog ahead of more established rivals
- **The waters are rising /** More destruction, less predictability – why Canada needs to get smarter at how it deals with flooding
- **Urban health: a smart move /** Exploring the technology that can help cities to make their residents happier and healthier
- **The RICS Awards UK 2019 /** The best of British built over the last 12 months

Royal Institution of Chartered Surveyors (RICS), Oliver Parsons, Editor of Modus, *Modus*, November 2019 – Modus: The Smart Issue [online], RICS, Knowledge, Journals. Available at: www.rics.org/uk/news-insight/publications/modus/the-smart-issue/ [accessed 2 January 2020]

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 2 January 2020]

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 2 January 2020]

Please note: In addition to *MODUS*, RICS publishes other journals that are **free** to view online incl.

- *Construction Journal*,
- *Building Surveying Journal*,
- *Building Conservation Journal*,
- *Building Control Journal*,
- *Land Journal*, and
- *Property Journal*.

Source: Royal Institution of Chartered Surveyors (RICS). Further information can be accessed via the RICS Website, News, Journals [online] and available at: www.rics.org/uk/news-insight/publications/ [accessed 2 January 2020]

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

Contents incl.

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

&

Potholes – Fighting a losing battle

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

UK: World famous landmark undergoes extensive renovation

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

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

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

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

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

The works involve:

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

For further information, visit

Contractors World International (2019), 'UK: World famous landmark undergoes extensive renovation', *Contractors World International* Volume 9, No 1, Page 30 [online], USL StructureCare. Further information available at: <http://cwmags.com/> [accessed 2 January 2020]

Contractors World magazines (incl. **Contractors World International** and **Contractors World UK & Ireland**) are the leading international digital publications. Delivering site reports, equipment reviews and comments of

interest on the construction, mining, quarrying and related industries [online]. Available at: <http://cwmags.com/> [accessed 2 January 2020]. **Please note** that *Contractors World UK & Ireland* is no longer being published. However, the content continues to be published in the international edition (as shown above).

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IWFM Digital Magazine – **facilitate** November 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:

- Businesses must act to protect data sovereignty
- NEC FM contracts due in New Year
- BBP to launch sustainability forum
- UK's office rental values increase
- Flexible working is the most important work perk

Business News:

- Mitie prescribes £150m IFM deal for GlaxoSmithKline
- A year of research: Top findings from 2019
- 2019 FM contract news in review
- Continuous development: Out top explainers and best practice articles from 2019
- 2019 FM long-form features in review

News analysis:

- Building owners and managers must have fire safety tests
- Workplace tech: the art of the possible
- Promises, promises
- NHS estates teams 'must invest in infrastructure'
- UK 'lagging behind in AI take-up'

Source: Institute of Workplace and Facilities Management (IWFM), formerly BIFM (2019), **facilitate**, News, 2nd and 19th December 2019, **facilitatemagazine.com** [online]. Further information available at: www.facilitatemagazine.com/news/ [accessed 2 January 2020], London: Redactive Media Group.

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The Heritage Alliance's latest **'Heritage Update'** E-Bulletin – 29 November 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 (29 October 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:

- Heritage Day – 26th February 2020
- Help The Heritage Alliance Shape our Future
- **November #HeritageChat – Heritage Science**
- The Historic Religious Buildings Alliance's Big Update

- Hecate Arts and Philanthropy Company Join The Heritage Alliance
- Giving to Heritage
- **Inspiring Creativity: Heritage and The Creative Industries Report – bringing heritage sites to life through Augmented Reality and 3D**
- What would you like to see on our new website?
- Improving the Heritage Funding Directory
- Header Image: Heritage Open Days

News round-up:

- **What Political Parties are Planning for Heritage**
- **Manifesto Watch**
- **CLA Calls for Politicians to Back the “Rural Powerhouse”**
- Immersive Experiences in Museums, Galleries and Heritage Sites

Others news

- 3 Transformative Funds on the Horizon for UK Heritage
- **New Data Published Heritage Houses for Europe Project**
- New Report Published on Difficult Histories and Positive Identities
- Society of Antiquaries Responds to Controversial Vote
- CBA and ClfA Call for a Safe and Respectful Environment for All Archaeologists
- CBA Writes to Sheffield City Council
- Landmark Trust Offers Charities 50 Free Stays in Historic Buildings
- **Publication of Findings of UKRI Infrastructure Programme**
- Creative Collaborations in China
- Bell House Awarded Historic Houses Frances Garnham Award
- Arcade Nominated For Multiple Augmented Reality Awards

Have your say - Open consultations (incl. Heritage and Wellbeing; National VAT Research Survey, Alexandra Palace Consults on Proposed Changes to Parking Across the Site, Promoting Wellbeing for Early Years and New Mothers – Call for Case Studies,

and more.

Source: Heritage Update e-Bulletin [online], Issue **No 407**, 29 November 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2020]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 January 2020].

Top searching tips from Lucy the Librarian - This online edition also has a search function that allows you to view articles from current and archived editions.



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Inspiring Creativity: Heritage and The Creative Industries Report – bringing heritage sites to life through Augmented Reality and 3D

The Heritage Alliance recently launched the report ‘**Inspiring Creativity: heritage and The Creative Industries**’.

This important report showcases successful collaborations between heritage sites and organisations within the creative industries, sharing best practice and recommendations for both sectors to build better partnerships into the future. It also sets out recommendations for grant funders, Government and policy workers. The report includes a huge range of case studies, provided by Alliance members and partners, that showcase various aspects of the innovative collaborative work between the two sectors.

Today, we are featuring the case study from the **National Trust** in collaboration with the **University of Exeter**. The project aimed to help small to medium heritage sites better understand their visitors and design creative engagement opportunities. The enabled the National Trust – Tin Coast to offer two new experience to visitors.

Source: Heritage Update e-Bulletin [online], Issue **No 407**, 29 November 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2020]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 January 2020].

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What Political Parties are Planning for Heritage

The Heritage Alliance has recently summarised **here** the proposals of the different political parties **which council effect the heritage sector** in some way. All the manifestos can be found at the various political party website incl.: **Conservatives, Labour, Liberal Democrats, Green Party, Brexit Party, UKIP, DUP, SNP and Plaid Cymru**. IN our analysis we flagged proposals in the following categories: Culture, Brexit & immigration, devolution & Parliament, wellbeing, education, apprenticeships & skill gaps, environment and energy, tourism, transport, internet broadband, businesses, planning, housing, rural and international.

The key topics of this election, tackled by every party, are: **Brexit (and immigration), the NHS, and the climate emergency**. All major parties commit to reaching the net zero target emissions and between the common measures, public transport efficiency and railways improvements are priorities.

In the light of the 2019 **Heritage Manifesto**, published last week (see publication date), some proposals of note include:

- Liberal Democrats commit to strengthen the links between culture and tourism by appointing a Minister of State for Tourism and by adding tourism to the functions of the Department of Digital, Culture, Media and Sport;
- Funding for research to replace EU funding would be allocated by Conservatives and the Brexit Party. Conservatives also support the EU Horizon programme, Liberal Democrats and Green Party plan to stay in the EU, so EU funding schemes will continue to operate;
- Regarding immigration in the event of Brexit, Conservatives and the Brexit Party would introduce an Australian-style points-based system;
- In the event of Brexit, both Conservatives and Labour commit to maintain and improve EU environmental standards;
- In a general devolution framework, Labour and Liberal Democrats commit to protect and revive high streets. Environmental impact must be taken into account (also, for the Green Party). Conservatives give attention to infrastructure;
- Reforming apprenticeships is important for all parties;
- The Green Party fosters repair and renovation of buildings rather than new construction (and plans to build related apprenticeships);
- Labour and Liberal Democrats commit to maintain Lottery funding for the Arts an Heritage sector, even though Labour call for more transparency in funding distribution;
- It is also worth flagging that all major parties commit to maintain free access to national museums and galleries. Moreover, Conservatives, Labour, and Liberal Democrats commit to allocating culture-related funding. The Conservatives' 'Towns Fund' intends to support local libraries and museums, and help communities acquire assets under threat. The Labour's 'Cultural Capital Fund' intends to support local libraries and museums. The Liberal Democrats will instead expand the 'Future High Street Fund'.

You can also see our [2019 edition of a Political Venn diagram](#), looking at the overlaps and areas of consensus between the main parties covering England. This will be particularly useful in the event of coalitions or a hung parliament.

Source: Heritage Update e-Bulletin [online], Issue **No 407**, 29 November 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2020]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 January 2020].

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Manifesto Watch

In the last issues of Heritage Update (see publication date), the Heritage Alliance shared some of the manifestos that have been published by organisations across the sector, including those by **Historic Houses**, **CPRE (Campaign to Protect Rural England)**, **NCVO (The National Council for Voluntary Organisations)** and **the Creative Industries Manifesto 2019**.

Here is a summary of some more that have been published in the last fortnight.

The **Tourism Alliance's Manifesto** comprises 12 key policies to support all parts of the sector that cover broad issues ranging from immigration and sustainability through to developing strategies for various components of the industry, addressing taxation issues and ensuring customer safety. One of the priorities identified by the Tourism Alliance is "Protecting our heritage", in synergy with our (Heritage Alliance) Heritage Manifesto.

Civic Voice's manifesto calls for a more Accessible, Balanced and Collaborative Planning System to ensure communities have a meaningful voice to shape where they live. They call for a more participative and citizen led model of governance in towns, cities and villages. To do so, it is necessary that local Authorities are properly funded and have the necessary powers to enhance the historic environment to make better places.

Source: Heritage Update e-Bulletin [online], Issue **No 407**, 29 November 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2020]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 January 2020].

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CLA Calls for Politicians to Back the "Rural Powerhouse"

The Country Land and Business Association (CLA), has launched its general election campaign calling on politicians from all parties to back its Rural Powerhouse initiative.

The CLA has written to every candidate in every constituency in England and Wales asking them to pledge support for the Rural Powerhouse, which is comprised of five key themes:

- A fully connected countryside
- A planning system designed for rural communities
- Profitable and sustainable farming
- Investment in skills and innovation
- A simpler tax regime

CLA South West Director Ann Maidment said: "The rural economy has immense potential for economic growth and job creation, but we need the right policies to unleash it. If it is allowed to perform to its full potential, we believe the rural economy could add £43bn extra each year to the economy in England alone, on top of the £250bn it already does.

The Rural Powerhouse is not just a campaign to last for a few weeks, but a strategic approach for the CLA, pulling together what we have always done so well – champion the rural economy in all its diversity."

Further information can be found via the CLA News website [online] and available at: www.cla.org.uk/events/your-area/south-west# [accessed 10 December 2019]

Source: Heritage Update e-Bulletin [online], Issue **No 407**, 29 November 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2020]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 January 2020].

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New Data Published Heritage Houses for Europe Project

New data has been published from the 'heritage Houses for Europe' project. The project assessed the contribution that family-owned heritage houses have on European values, cultural life and economy.

The study highlights that half of the house owners consulted for the study host cultural activities (concerts, plays, exhibitions, school visits and other educational events), creating synergies with other organisation in their area (e.g. local associations). It is estimated that in 2018 European family-owned heritage houses hosted 52 million visitors. They play a key role in the protection of landscape and environment, and the management of their parks helps preserve biodiversity. They also contribute to wellbeing, offering access to open and green spaces.

Their economic contribution is also huge, offering staff employment, sustaining local suppliers and the construction sector. However, there are severe challenges related to their financial sustainability. It is crucial for the houses to choose the right business model. The study set up an **online business model toolkit** to inspire owners in successful business models, offering examples of best practices around Europe.

Their recommendations underline the importance of funding, but also capacity building, knowledge sharing and networking. New partnerships and innovative business models will help ensure the future of this heritage.

You can read the full "Study of Heritage Houses for Europe" and the Executive Summary via the source mentioned below.

Source: Heritage Update e-Bulletin [online], Issue **No 407**, 29 November 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2020]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 January 2020].

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Publication of findings of UKRI Infrastructure Programme

The **UKRI (UK Research and Innovation) Infrastructure Programme** was commissioned to develop a research and innovation infrastructure roadmap, as part of the approach to realising the Government's Industrial Strategy.

These findings have been published as two reports. The first: '**Opportunities to grow our capability**' provides an assessment of the future infrastructure landscape and future themes which could create a step-change in the UK's capability over the next 10 years. The report will be used as a strategic guide to inform future investment decisions across the landscape.

The **second report** is an updated landscape analysis. Both reports can be accessed via the source link provided below.

Source: Heritage Update e-Bulletin [online], Issue **No 407**, 29 November 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2020]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 January 2020].

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Latest Edition of **Open Praxis** –

Open Praxis (published by the International Council for Open and Distance Education – ICDE) is a peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education.

Open Praxis [online]. Available at: <https://openpraxis.org/index.php/OpenPraxis/index> [accessed 2 January 2020] and

Open Praxis Archives [online]. Further information available at <https://openpraxis.org/index.php/OpenPraxis/issue/archive> [accessed 2 January 2020]



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Open Praxis, Volume 11, No. 3, July – September (2019)

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

Editorial -

Title: Introduction to Open Praxis volume 11 Issue 3

ISSN: 2304-070X

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

Abstract: This *Open Praxis* issue in volume 11 includes five research papers, two innovative practice papers and a book review.

Keywords: online education; open education; tutor; community of inquiry; MOOC; OER; innovative practice; mobile learning; teacher education

Reference: Gil-Jaurena I (2019) 'Introduction to Open Praxis issue in volume 11 includes five research papers, two innovative practice papers and a book review', *Open Praxis*, 11(3): pp 227-228.

doi: <http://dx.doi.org/10.5944/openpraxis.11.3.1037> [accessed 3 January 2020]

Research articles -

Title: Do tutors make a difference in online learning? A comparative study in two Open Online Courses

ISSN: 2304-070X

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

Abstract: Two free fully online courses were offered by Peoples-uni on its Open Online Courses site, both as self-paced courses available any time and as courses run over four weeks with tutor-led discussions. We tested the hypothesis that there are no measurable differences in outcomes between the two delivery methods. Similar numbers attended both versions of each course; students came from multiple countries and backgrounds. Numbers of discussion forum posts were greater in tutor-led than self-paced courses. Measured outcomes of certificates of completion, quiz completion and marks gained were very similar and not statistically significantly different between the tutor-led and the self-paced versions of either course. In light of little discernible difference in outcome between self-paced learning compared with courses including tutor-led discussions, the utility of the time cost to tutors is in question. The findings may be relevant to others designing online courses, including MOOCs.

Keywords: Open Online Courses, tutors, outcomes, student engagement, motivation, self-paced learning

Reference:

Heller R, Chilolo E, Elliott J, Johnson B, Lipman D, Ononeze V, and Richards J (2019) 'Do tutors make a difference in online learning? A comparative study in two Open Online Courses', *Open Praxis*, 11(3), pp229-241.

doi: <http://dx.doi.org/10.5944/openpraxis.11.3.960> [accessed 3 January 2020]

Title: Community of Inquiry in Web Conferencing: Relationships between Cognitive Presence and Academic

ISSN: 2304-070X

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

Abstract: In an increasingly digital society, educators are encouraged to use synchronous online technologies. This study attempts to explore the community of inquiry in a web conferencing system through synchronous interactions and focuses on the relationships between cognitive presence and academic achievements. Participants were teacher candidates enrolled in a one-semester synchronous course at an online program of a public university. Community of Inquiry Questionnaire, final exam scores and student discussion messages were used to gather data. Results indicated that while moderate positive relationships were found between cognitive presences. In addition, cognitive presence was found moderately positive correlated with academic achievements. The role of the instructor and the affordances of web conferencing system positively influenced the students' cognitive presences. Further research directions and practice implications about the synchronous instructions were also included.

Keywords: Synchronous online learning, community of inquiry, web conferencing, cognitive presence, academic achievements.

Reference: Çakiroğlu Ü (2019) 'Community of Inquiry in Web Conferencing: Relationships between Cognitive Presence and Academic Achievements', *Open Praxis*, 11(3), pp243-260.

doi: <http://dx.doi.org/10.5944/openpraxis.11.3.968> [accessed 3 January 2020]

Title: Correlation between familial roles and persistence of female students on distance education programmes in Ghana: Through the lens of an administrator

ISSN: 2304-070X

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

Abstract: The contributions of individuals towards a nation's development cannot be underestimated. Nevertheless, research has proven that gender roles could create some setbacks to the extent that some individuals may not be able to reach the optimum in higher education. This correlational study explored whether the interplay of some female gender roles affected persistence as female students juggled with studies. A total of 21 study centres with female enrolment of a 100 and above were purposively selected. Using simple random sampling, a sample of 441 female students were drawn from two distance education institutions in Ghana. The study employed the correlational research design. A questionnaire was used to collect data and analysed using descriptive statistics and Pearson Product Moment Correlation Coefficient. It was revealed that female students had family roles they performed. The study found that there was a positive correlation between persistence and familial roles among the participants. This implied that as the level of familial roles of the respondents increased, their persistence increased as well, thus revealing some level of resilience towards the progression of their education. It was therefore recommended that administrators of distance education institutions equipped female students with the needed knowledge and support to ensure the effective management of their familial roles.

Keywords: Family roles, persistence, female students, distance education programme.

Reference: Somuah B, Kariuki S, and Itegi F (2019) 'Correlation between familial roles and persistence of female students on distance education programmes in Ghana: Through the lens of an administrator', *Open Praxis*, 11(3), pp261-273.

doi: <http://dx.doi.org/10.5944/openpraxis.11.3.977> [accessed 3 January 2020]

Title: Student Perceptions of Open Pedagogy: An Exploratory Study

ISSN: 2304-070X

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

Abstract: With the increasing development and adoption of Open Educational Resources, many researchers and practitioners are interested in more carefully examining pedagogies connected with their use. This study describes the perceptions of 173 students of implementations of various approaches to open pedagogy by nineteen instructors in post-secondary institutions in New Hampshire. Students were asked about their

perceptions of several aspects of open pedagogy, including its influence on the mastery of core academic content, skills in collaborative learning, critical thinking and problem solving, effective communication, and learning how to learn. Students found value in open pedagogy and believed that open pedagogy had greater overall educational value than traditional educational activities. When students were asked if they would prefer to take a course with open pedagogy or traditional pedagogy, a majority preferred open pedagogy. Further research is necessary to determine the efficacy of open pedagogy beyond student perceptions, and also to determine which types of open pedagogy are most efficacious.

Keywords: Open Educational Resources; OER; Open Pedagogy; OER Enabled Pedagogy

Reference: Hilton III J, Wiley D, Chaffee R, Darrow J, Guilmett J, Harper S, and Hilton B (2019) 'Student Perceptions of Open Pedagogy: An Exploratory Study', *Open Praxis*, 11(3), pp275-288.
doi: <http://dx.doi.org/10.5944/openpraxis.11.3.973> [accessed 3 January 2020]

Title: OER Mainstreaming in Cameroon: perceptions and Barriers

ISSN: 2304-070X

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

Abstract: The government of Cameroon has been increasingly pre-occupied with the quality of learning outcomes and the lack of learning resources at all levels of the education system. Research on similar educational systems in Sub-Saharan Africa and beyond indicate that Ministries of Education are exploring the potential of open educational resources (OER) to cut down the high cost of textbooks and enhance the availability of quality learning materials in classrooms. To explore possibilities of mainstreaming OER under the Ministries of Basic and Secondary Education in Cameroon, a quantitative research design approach was used to survey n=393 Regional Pedagogic Supervisors from the 10 Regions of the country. The outcome of this study presents the factors shaping the perspectives of Regional Pedagogic Supervisors in terms of perceptions and barriers to using OER. The novelty of this approach is the application of a proven model for technology acceptance testing in the context of OER. Based on the findings, three major recommendations for mainstreaming OER in Cameroon with potential impact on lowering textbook costs and increasing learning outcomes were formulated.

Keywords: Open Educational Resources; OER; Cameroon; textbook costs; learning outcomes; OER mainstreaming

Reference: Nkwenti M, and Abeywardena I (2019) 'OER Mainstreaming in Cameroon: Perceptions and Barriers', *Open Praxis*, 11(3), pp289-302.
doi: <http://dx.doi.org/10.5944/openpraxis.11.3.981> [accessed 3 January 2020]

Innovative practice articles -

Title: Innovative Arts-Based Learning Approaches adapted for Mobile Learning

ISSN: 2304-070X

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

Abstract: Online learning continues to evolve from computer-based learning to more focus on mobile learning. With this evolution comes the need to develop (and evaluate) instructional strategies effective in mobile learning. This work-in-progress features a description of four innovative instructional strategies adapted from approaches we developed, used, and evaluated successfully in computer-based online learning. These newly adapted strategies -poetweet, photo pairing, reflective mosaic, and the six-word story- all use arts-based approaches. In our past research we found similar strategies developed for online teaching encouraged interaction, enhanced social presence, and facilitated community. This paper features a description of these modified learning activities recreated for the mobile learning environment. We have completed preliminary testing of these newly revised learning activities in m-learning, and in the future we will formally study these to determine if arts-based strategies revised to suit m-learning, and in the future we will formally study these to determine if arts-based strategies revised to suit m-learning create the same positive outcomes as were found when we used arts-based approaches in e-learning.

Keywords: mobile learning; e-learning; arts-based instructional strategies; interaction; social presence; community of inquiry

Reference: Perry B, and Edwards M (2019) 'Innovative Arts-Based Learning Approaches adapted for Mobile Learning'. *Open Praxis*, 11(3), pp303-310.

doi: <http://dx.doi.org/10.5944/openpraxis.11.3.967> [accessed 3 January 2020]

Title: Developing Open Practices in Teacher Education: An Examples of Integrating OER and Developing Renewable Assignments

ISSN: 2304-070X

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

Abstract: This manuscript offers a reasoning for an example of integrating Open Educational Resources (OER) and open pedagogy within a teacher education course. We highlight a collaborative partnership between library faculty and education faculty and the decision points and processes we used when redesigning this course to provide an example of adopting OER and our considerations for developing a renewable assignment. The benefits of using OER for K-12 teachers include increasing awareness of and providing opportunities to develop open practices. The transition to a renewable assignment creates a space for teaching candidates to meaningfully contribute to the profession and engage in collaboration across time and space. Teacher education programs provide an ideal space to develop digital literacies and open practices.

Keywords: OER, open education, OER-enabled pedagogy, open pedagogy, teacher education, renewable assignments

Reference: Van Allen J, and Katz S (2019) 'Developing Open Practices in Teacher Education: An Example of Integrating OER and Developing Renewable Assignments'. *Open Praxis*, 11(3), pp311-319.

doi: <http://dx.doi.org/10.5944/openpraxis.11.3.972> [accessed 3 January 2020]

Book reviews –

Title: Book Review of Responsive Open Learning Environments: Outcomes of Research from the ROLE Project

ISSN: 2304-070X

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

Abstract: This book review of the eBook Responsive Open Learning Environments: Outcomes of Research from the ROLE Project recommends the eBook as it covers topics on a project that could be applied to virtual exchanges allowing learners to connect with peers and content via widgets.

Keywords: Open Educational Resources (OER), Self-Regulated Learning (SRL), Virtual International Exchange (VIEs), technological, organisational, psycho-pedagogical, and social (TOPS) model, Contextualized attention metadata (CAM), Activity Recommender (AR)

Reference: Wahls N (2019) 'Book Review of Responsive Open Learning Environments: Outcomes of Research from the ROLE Project', *Open Praxis*, 11(3), pp321-325.

doi: <http://dx.doi.org/10.5944/openpraxis.11.3.988> [accessed 3 January 2020]

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'.

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EURODL (European Journal of Open, Distance and E-Learning) –

EURODL (European Journal of Open, Distance and E-Learning) is an electronic, multi-media, [open access journal](#). It publishes the accounts of research and presents scholarly work and solid information about open, distance, online and e-learning in technology-enhanced education and training in its most inclusive definition.

Incl. Liyanagunawardena T, Scalzavara S, **University College of Estate Management (UCEM)** and Williams S, University of Reading (2017) 'Open Badges: A systematic Review of Peer Reviewed Publishers Literature (2011-2015)', EURODL

- Open badges are a digital representation of skills or accomplishments recorded in a visual symbol that is embedded with verifiable data and evidence. They are created following a defined open standard, so that they can be shared online. Open Badges have gained popularity around the world in recent years and have become a standard feature of many learning management systems. This paper presents a systematic literature review of the published open badges literature from 2011 to 2015. Through database searches, searching the internet and chaining from known sources, 135 relevant peer-reviewed papers were identified from a corpus of 247 publications for this review. The authors believe this to be the first effort to systematically review literature relating to open badges. The review categorised publications while also providing quantitative analysis of publications according to publication and contributors. After assessing the literature suggestions for future research directions are presented, based on under-represented areas.

Liyanagunawardena T, Scalzavara S, University College of Estate Management (UCEM) and Williams S, University of Reading (2017) 'Open Badges: A systematic Review of Peer Reviewed Publishers Literature (2011-2015)', De Gruyter Open, *European Journal of Open, Distance and E-Learning* - EURODL [online], 8 September. Available at: www.eurodl.org/?p=current&sp=full&article=754 [accessed 2 January 2020]

EURODL (European Journal of Open, Distance and E-Learning) – Overview [online]. Available at: www.eurodl.org/ and <https://content.sciendo.com/view/journals/eurodl/eurodl-overview.xml> [accessed 2 January 2020]

Most Popular articles (as of 19 December 2019) incl.

1. Learning Effectiveness and Students' Perceptions in A Flexible Learning Course, Vol 21(2)
2. ICT Capacity Building: A critical Discourse Analysis of Rwandan Policies from Higher Education Perspective, Vol 19(2)
3. Aesthetic Literacy: Observable Phenomena And Pedagogical Applications For Mobile Lifelong Learning (MLLL), Vol 18(1)
4. Who are the Open Learners? A Comparative Study Profiling Non-Formal Users of Open Educational Resources, Vol 19(2)
5. Predicting Dropout Student: An Application of Data Mining Methods in an Online Education Program, Vol 17(1)
6. Teachers' Use and Acceptance of Gamification and Social Networking Features of an Open Repository, Vol 20(1)
7. Pre-Service Computer Teachers' Tendencies towards the Use of Mobile Technologies: A Technology Acceptance Model Perspective, Vol 20(1)
8. Self-Esteem and Loneliness as Factors Affecting Distance Learning Students, Vol 17(2)
9. Web 2.0 Use in Higher Education, Vol 17(2)
10. Cross-Cultural Communication and Collaboration: Case of an International e-Learning Project. Vol 17(1)

Access to these articles are available within the above-mentioned web-link.

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OLC Online Learning Journal – Latest issue published

LATEST NEWS: The MERLOT Journal of Online Learning and Teaching (JOLT) was a peer-reviewed, open-access, online publication that promoted scholarship in the use of the Internet and web-based multimedia resource in higher education.

The MERLOT community is now joining with the Online Learning Consortium (OLC – formerly Sloan-C) to expand scholarly research in the field of online education, with a merger of the *Journal Online Learning* (formerly JALN) and the *Journal of Online Learning and Teaching* (JOLT). Further information is available at

Papers in this latest issue of *Online Learning Journal* incl.

This issue of OLJ presents 13 articles researching Massive Open Online Courses (MOOCs), leadership perspective, student engagement, academic integrity, pedagogy, and support. These papers advance our understanding of online learning with insights from a broad array of national and international investigators using quantitative, qualitative, and mixed methods approaches to inquiry.

The Online Learning Consortium's premier journal dedicated to the development and dissemination of new knowledge at the intersection of pedagogy, emerging technology, policy, and practice in online environments.

Table of Contents

Special Conference Issue: AERA Online Teaching and Learning SIG (Special Interest Group)

- Swan K, Richardson J, and Farmer T (2019) '**Introduction to the Special Issue: Highlighting the Best Papers from the OTL SIG AERA 2019**'. *Online Learning [online]*, [S.I.] 23(4). Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/2177> [accessed 2 January 2020]. doi: <http://dx.doi.org/10.24059/olj.v23i4.2177> [accessed 2 January 2020]
- Introduction to the Special Issue [S.I.]: Highlighting the Best Papers from the OTL SIG AERA 2019

- Shea P, and Bidjerano T (2019) '**Effects of Online Course Load on Degree Completion, Transfer, and Dropout among Community College Students of the State University of New York**'. *Online Learning [online]*, 23(4). Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1364> [accessed 2 January 2020]. doi: <http://dx.doi.org/10.24059/olj.v23i4.1364> [accessed 2 January 2020]

- Research suggests that some students are at risk of lower levels of academic performance when studying online compared to students who take coursework only in the classroom. Community college students appear to be among those that struggle in online settings. In this paper, we hypothesize that online course load may influence outcomes for such students, especially those at risk for lower levels of degree attainment. To examine this, we conducted a state-wide study using data from 30 community colleges (n=45,557) of the State University of New York, to understand online course-load effects on degree completion, transfer, and dropout. We conclude that when controlling for covariates known to impact degree completion, on average, community college students who successfully complete online courses nearly double their chances. (odds ratio-1.72) of earning a degree or transferring to a 4-year college. However, racial minority students had reduced outcomes and additional research is warranted.

Keywords: Online learning, community college, retention, dropout, degree completion higher education

- Yeh Y, Kwok O, Chien H, Sweany, N, Baek, E, and McIntosh W (2019). '**How College Students' Achievement Goal Orientations Predict Their Expected Online Learning Outcome: The Mediation Roles of Self-Regulated Learning Strategies and Supportive Online Learning Behaviours**'. *Online Learning [online]*, [S.I.] 23(4). Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/2076> [accessed 2 January 2020]. doi: <http://dx.doi.org/10.24059/olj.v23i4.2076> [accessed 2 January 2020]

- The purpose of this study was to examine the underlying mechanism between goal orientations and academic expectation for online learners. We simultaneously study the structural relationships among 2x2 achievement goal orientations, self-regulated learning strategies (SRL), supportive online learning behaviours, and expected academic outcome in various online courses with 93 respondents (70 undergraduate and 23 graduate students). Specifically, we tested the mediation effects of both self-regulated learning strategies and supportive online learning behaviours on the relation between achievement goal orientations and students' academic expectations. The results showed that two of the achievement goal orientations – mastery-approach goals (MAP) and mastery-avoidance goals (MAV) – predicted the adoption of the self-regulated learning strategies and supportive online learning behaviours, which, in turn, predicted students expected academic outcome for their online course. Specifically, students with higher mastery-approach goals were more likely to adopt different types of self-regulated learning strategies and supportive online learning behaviours to facilitate their learning experience, which further enhanced their expectation for their academic outcome. By contrast, students with higher mastery-avoidance goals were less likely to adopt self-regulated learning strategies and supportive online learning behaviours, which, in turn, led to lower grade expectations.

Keywords: 2x2 Achievement Goal Orientations, Self-Regulated Learning Strategies, Supportive Online Learning Behaviours, Expected Academic Outcome

- Liu J (2019) '**Evaluating Online Learning Orientation Design With a Readiness Scale**'. *Online Learning [online]*, S.I. 23(4). Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/2078> [accessed 2 January 2020]. doi: <http://dx.doi.org/10.24059/olj.v23i4.2078> [accessed 2 January 2020]

- Student online learning readiness (SOLR) has been identified as being closely associated with the success of learning in online environments. Online learning orientations have also been used as a key intervention to

support students. However, the evaluation practice and research of online learning orientation design are limited. This research studied the effects of an orientation course on SOLR, using a multiyear design-based research with a one-group pre-test and post-test method as the evaluation measurement. The design and implementation of a self-paced orientation course in Canvas learning management system was detailed as the intervention. A 20-item SOLR questionnaire was selected as the pre-test and post-test instrument. After the initial cycles, a sample of 2,590 college students were invited to participate in the 2017 orientation and respond to the pre-test and post-test. Because separate consent forms were distributed and collected at the pre-test and post-test stages, the researcher was able to use 445 pre-test and 624 post-test datasets. The independent samples *t*-test results indicated statistically significant improvement of SOLR competencies. The exploratory factor analysis results also indicated changes of items associated with the SOLR constructs. The reliability coefficients of all subscales were $> .90$, with an increase in the reliability of the SOLR instrument as a whole from pre-test ($\alpha = .92$) to post-test ($\alpha = .95$). Implications for the design and evaluation of online learning orientations and preparing student online learning readiness are discussed toward future design and implementation.

Keywords: student online learning readiness, orientation for online learning, evaluation and measurement.

- Quintana R, and Tan Y (2019) '**Characterizing MOOC Pedagogies: Exploring Tools and Methods for Learning Designers and Researchers**'. *Online Learning [online]*, S. I. 23(4). Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/2084> [accessed 2 January 2020]. doi: <http://dx.doi.org/10.24059/olj.v23i4.2084> [accessed 2 January 2020]

- We explore new tools and methods for learning designers and researchers to characterize pedagogical approaches that are applied to the design of MOOCs. This paper makes three main contributions to literature on MOOC design and evaluation: (1) an Expanded Assessing MOOC Pedagogies instrument for use by learning designers and researchers within their own contexts, (2) a demonstration of how nearest neighbour cluster analysis can be used to identify pedagogically similar MOOCs, and (3) a preliminary analysis of the clusters to account for features and factors that contribute to pedagogical similarity of MOOCs within clusters. This work advances research in the development of MOOC typologies, to allow learning designers and researchers to ask nuanced questions about pedagogical aspects of MOOC design.

Keywords: Massive Open Online Courses (MOOCs), assessment instrument, pedagogy, clustering methods.

- Egloffstein M, Koegler K, and Ifenthaler D (2019) '**Instructional Quality of Business MOOCs: Indicators and Initial Findings**'. *Online Learning [online]*, S.I. 23(4). Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/2091> [accessed 2 January 2020]. doi: <http://dx.doi.org/10.24059/olj.v23i4.2091> [accessed 2 January 2020]

- The concept of 'instructional quality' is central to the design and evaluation of massive open online courses (MOOCs). As MOOCs from the field of business and management are gaining importance both in academia and professional learning, questions on how to determine and improve the quality of these offerings arise. In this paper, we introduce an instrument for evaluating MOOCs against a set of theoretically grounded instructional design principles. After an overview of related research, we describe the concise course scan rubric and its application in detail. A pilot study with $N = 101$ business MOOCs reveals their rather low overall instructional quality. While most aspects of structuredness and clarity are rated high, the implementation of instructional design principles falls notably behind. The implications from our study point towards a learner-oriented notion of instructional quality and individualised learning and increased learner support in business MOOCs.

- Zhu M, and Bonk C (2019) '**Designing MOOCs to Facilitate Participant Self-monitoring for Self-directed Learning**'. *Online Learning [online]*, S.I. 23(4). Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/2037> [accessed 2 January 2020]. doi: <http://dx.doi.org/10.24059/olj.v23i4.2037> [accessed 2 January 2020]

- This study investigates the design and delivery of MOOCs to facilitate student self-monitoring for self-directed learning (SDL) using mixed methods. The data sources of this study include an online survey with 198 complete respondents, semi-structured interviews with 22 MOOC instructors, and document analysis of 22 MOOCs. Study results indicated that MOOC instructors considered self-monitoring skills critical for SDL. To foster students' self-monitoring, MOOC instructors reported that they facilitated students' self-monitoring by helping students with internal feedback includes cognitive and metacognitive processes. To facilitate cognitive processes, MOOC instructors provided quizzes, tutorials, learning strategies, learning aids, and progress bars. For metacognition, these instructors provided reflection questions and attempted to create learning communities. In addition, MOOC instructors, teaching assistants, and peers provided external feedback for students' self-monitoring. Across these findings, technology played a central role in supporting student's self-monitoring.

Keywords: massive open online courses (MOOCs), self-monitoring, self-directed learning, instructional design, MOOC instructors

- Askeroth J, and Richardson J (2019) '**Instructor Perceptions of Quality Learning in MOOCs They Teach**', *Online Learning [online]*, S.I. 23(4). Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/2043> [accessed 2 January 2020]. doi: <http://dx.doi.org/10.24059/olj.v23i4.2043> [accessed 2 January 2020]

- Discussions regarding the instructional and learning value of Massive Open Online Courses (MOOCs) include the question of whether or not MOOC learners gain much value, if any at all, and has been a continuing debate since MOOCs began. Sceptics argue that MOOCs lack academic rigor and are superficial, while proponents praise them as addressing important global issues of educational access and affordability, providing pathways to more substantial learning opportunities. An important viewpoint in this conversation that warrants consideration is that of the professors/instructors who teach MOOCs and how they perceive the quality of learning that takes place in their MOOCs. In this study, semi-structured qualitative interviews were used with three MOOC instructors and an inductive analysis approach that resulted in the emergence of three main themes. The findings from this study suggest that instructors do believe that quality learning can take place within a MOOC and is often accomplished through social constructivism and self-regulated learning approaches. Discussions, dialogues, negotiations, collaborations as well as learners accomplishing their intended goals in the course were all considered to be manifestations of quality learning in a MOOC. Implications of the findings for additional research and practice are also discussed.

Keywords: Massive Open Online Courses; MOOCs; social constructivism; self-regulated learning; online learning

- Kumar S, Martin F, Budhrani K, and Ritzhaupt A (2019) '**Award-winning faculty online teaching practices: Elements of award-winning courses**'. *Online Learning [online]*, S.I. 23(4). Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/2077> [accessed 2 January 2020] doi: <http://dx.doi.org/10.24059/olj.v23i4.2077> [accessed 2 January 2020]

- The purpose of this study was to explore award-winning instructors' insights on elements of their course design that were "award-winning" and the differences between expert and novice online instructors. Interviews were conducted with eight award-winning online faculty members from across the United States who had received online teaching awards from one of three professional associations. The five main areas that emerged from the data analysis were, a) authentic and relevant course materials that connect to practice, b) the use of multimedia resources c) student creation of digital content individually and collaboratively d) students' reflection on learning and e) the instructor's explanation of the purpose of activities, technologies and assessments in the online course. Additionally, award-winning faculty emphasized the importance of using data and evaluation practices and reflecting on course offering in the development of an excellent online course. Award-winning faculty described expert online instructors as being experienced and comfortable in the online environment, using a wide range of strategies, being willing to learn, using data and analytics, and engaged in continuous improvement. The findings add to the literature on best practices and what constitutes excellence in online courses.

Keywords: Online teaching, Online Instructor, Instructional Design, Course Design, Award-winning faculty

- Olesova L., and Campbell S (2019) '**The Impact of the Cooperative Mentorship Model on Faculty Preparedness to Develop Online Courses**', *Online Learning [online]*, S.I. 23(4). Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/2089> [accessed 2 January 2020] doi: <http://dx.doi.org/10.24059/olj.v23i4.2089> [accessed 2 January 2020]

- The 2017 survey of Faculty Attitude on Technology conducted by Inside Higher Ed reported on the low percentage of partnerships between university faculty and instructional designers in online course development. Experts said it is not a surprise because instructional designers are underutilised and their role in Higher Education is still not clear. This qualitative study examined the faculty members' perceptions about their mentorship relations with instructional designers when they designed and developed asynchronous online courses. This study also explored factors that may lead to successful mentorship relationships between instructional designers as mentors and faculty members as mentees. Higher education administration, university faculty, and instructional designers will benefit from the results of this study.

Keywords: mentorship, instructional design, asynchronous online teaching and learning

- Sadaf A, Martin F, and Ahlgrim-Delzell L (2019) '**Student Perceptions of the Impact of "Quality Matters" Certified Online Courses on their Learning and Engagement**', *Online Learning [online]*, S.I. 23(4). Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/2009> [accessed 2 January 2020] doi: <http://dx.doi.org/10.24059/olj.v23i4.2009> [accessed 2 January 2020]

- The Quality Matters (QM) is one of the most widely-adopted set of standards for best practices in online courses to promote student learning. In this study, we examined student perceptions of the impact of QM certified courses on students learning and engagement. Fifty graduate students enrolled in online courses completed a survey developed based on the QM rubric items. The QM framework includes 43 standards in eight categories. Among eight categories, *Course Activities and Learner Interaction* were rated to have the highest impact and *Learning Objectives* were rated to have the second highest impact on both student learning and engagement. The exploratory factor analysis revealed that 12 factors explained 88.89% of the variance of the impact on learning and 8 factors explained 85.7% of the variance of the impact on engagement. Clear expectations loaded as the highest factor for both learning and engagement.

Keywords: Quality Matters, online learning, student engagement, student learning

Section II

- Shea P (2019) **'Introduction to Section II'**. *Online Learning* [online], [S.l.], 23(4), September 2019. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/2178> [accessed 2 January 2020]. doi: <http://dx.doi.org/10.24059/olj.v23i4.2178> [accessed 2 January 2020].

- Introduction to Section II of *Online Learning* Volume 23(4).

- Horvitz B, Garcia L, Garza Mitchell R, and Calhoun C. (2019), **'An Examination of Instructional Approaches in Online Technical Education in Community Colleges'**. *Online Learning* [online], S.l. 23(4). Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1613> [accessed 2 January 2020]. doi: <http://dx.doi.org/10.24059/olj.v23i4.1613> [accessed 2 January 2020]

- Technical education programs in community colleges prepare students for many science and engineering-based jobs in the United States. An increasing number of technical education programs in community colleges are using online learning tools to teach courses. However, little is currently known about the ways these programs are integrating online learning in their coursework. This study examined fifteen National Science Foundation funded technical education programs that use online learning to partially or entirely deliver their courses. We conducted semi-structured interviews with key personnel from each project. Through analysis of this data, we found that technical education programs used in a variety of instructional delivery approaches that can be categorized as follows: (a) a hybrid or blended course with asynchronous lectures; (b) a hybrid or blended course with synchronous lectures; (c) a hybrid or blended course with a combination of asynchronous and synchronous lectures and discussions; or (d) a course that is fully online. We also found that online or hybrid technical education programs used a variety of different methods to give students experience in their field of study that can be categorised as follows: (a) pre-recorded video; (b) live video; (c) simulations; (d) equipment at home; (e) equipment in lab; and (f) professional site experience. We recommend that future research examine how well these approaches are working, incorporate student perceptions, and incorporate the views of employers of these programs' graduates.

Keywords: online learning; technical education; community college; hybrid; vocational education

- Wavle S, and Ozogul G (2019) **'Investigating the Impact of Online Classes on Undergraduate Degree Completion'**. *Online Learning* [online], S.l. 23(4). Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1558> [accessed 2 January 2020] doi: <http://dx.doi.org/10.24059/olj.v23i4.1558> [accessed 2 January 2020]

- This study expands on current research that examines the impact of online courses on degree completion by using existing graduation rate data, course enrolment data, and student grades for undergraduate students at a multi-campus 4-year institution. The researchers aimed to provide advisors, faculty, and administrators with a better understanding of how online classes fit into an undergraduate student's program of study while completing their degrees within the desired timeframe. The researchers additionally sought to understand the impact of taking online classes on degree completion while controlling for student demographic and academic factors (e.g. age, first-generation student status, socioeconomic status, SAT/ACT scores, and 1st semester GPA) and campus type (traditional flagship, urban research, and regional). Results indicated that regardless of campus type taking one or more online classes during their program of study increased undergraduate students' likelihood of successful degree completion. Lastly, to provide further insight, this study compared student performance in online and on campus classes. Results for this comparison were mixed; slightly higher or slightly lower online courses grades were obtained by students compared to face-to-face course grades depending on type of campus.

Keywords: Online classes; online learning; graduation rates; degree completion; course completion; retention; student success

- Northcote M, Gosselin K, Kilgour P, Reynaud D, and McLoughlin C (2019) **'A professional learning program for novice online teachers: Application of professional development guidelines using threshold concepts and online learning perceptions'**, *Online Learning* [online], S.l. 23(4). Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1573> [accessed 2 January 2020]. doi: <http://dx.doi.org/10.24059/olj.v23i4.1573> [accessed 2 January 2020]

- The professional development of online teachers is now commonplace in most universities. Alongside the relatively straightforward decision to provide professional learning support of novice and experienced online educators within universities, decisions about the nature and content of such support and not always as clear cut. The study aimed to gather evidence about the experiences and views of current students and staff which, in turn, informed a set of pedagogical guidelines that could be used as the basis of professional learning programs for novice online teachers. Using a mixed methods research design, data were gathered using questionnaires, reflective journals and focus groups to determine the threshold concepts about online teaching, and perceptions of ideal online learning contexts. As well as identifying threshold concepts about online teaching and perceptions of teachers' and students' ideal views of online learning contexts (reported elsewhere), the study produced circular guidelines to inform the design of professional development outputs for online teachers in higher education contexts. This article reports on an example of how these professional

development guidelines were implemented at one higher education institution to provide wide-scale implementation of a professional development program for academic staff engaged in online teaching.

Keywords: threshold concepts, online teaching, professional development, curricula

- Joosten T, Cusatis R, and Harness L (2019) 'A Cross-institutional Study of Instructional Characteristics and Student Outcomes: Are Quality Indicators of Online Courses Able to Predict Student Success?', *Online Learning [online]*, S.I. 23(4). Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1432> [accessed 2 January 2020]. doi: <http://dx.doi.org/10.24059/olj.v23i4.1432> [accessed 2 January 2020]

- A study was conducted to examine instructional characteristics and their relationship to student outcomes in online courses at a 2-year and 4-year higher educational institution. Instructional characteristics included learner support, course design and organisation, content design and delivery, interactivity (student-instructor and student-student), and assessment and evaluation. A student survey instrument was created that captures student perceptions of the instructional characteristics of their course, their learning, and their satisfaction with the course. The data collected from the student survey was merged with data from institutional student information systems (e.g. demographics and course grade).

This article examines the relationship between these instructional characteristics, sometimes referred to as indicators of online course quality, and their relationship to student outcomes for all students and for underrepresented students. Significant findings from multiple regression analyses are reported. Additional analyses were conducted to examine differences among underrepresented students (minorities, first-generation) using MANOVA. No significant differences were reported.

Keywords: course quality, quality, interactivity, learner support, course design, content, organisation, assessment, evaluation, learning community, student success, learning, performance, satisfaction.

Source: *Online Learning Journal* [online], **Volume 23, No. 4 Dec. 2019**. Available at <https://olj.onlinelearningconsortium.org/index.php/olj> [accessed 2 January 2020] 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 – Multimedia Educational Resource for Learning and Online Teaching [online] and further information available at: www.merlot.org/merlot/index.htm [accessed 25 November 2019]. **JOLT**, MERLOT's Journal for Online Learning and Teaching [online] and available at: <http://jolt.merlot.org/index.html> [accessed 2 January 2020]

The State of Innovation in Higher Education: A Survey of Academic Administrators

This report explores the drivers and barriers to innovation at U.S. higher education institutions. The report, which is based on a survey of more than 100 U.S. academic administrators, reveals what an innovative culture looks like and how higher education institutions define and employ innovation.

A joint project of The Learning House, Inc. and the Online Learning Consortium (OLC) [online]. Available at: <https://onlinelearningconsortium.org/read/state-of-innovation-in-higher-education/> [accessed 2 January 2020]

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The Open Education Research Hub ([OER Hub](#))

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

OER Hub – Researching Open Education gathers research on the impact of open educational resources ([OER](#)) on learning and teaching practices. The OER Research Hubs intention is to respond to a need from the OER world for more research on which they can base their decisions. The Research Hub shares evidence that is gathered through mixed methods research including interviews, surveys, focus groups, critical incidence analysis, activity theory and analysis of learning design. Findings are likely to be of interest to a wide range of

stakeholders in the education sector. The project is based at [The Open University's \(OU\) Institute of Educational Technology](#) and is the OU's flagship project for research into open education and OER.

Open Educational Resources (OER) Research Hub [online]. Further information is available at <http://oerhub.net/> [accessed 2 January 2020].

Within the OER Hub there are sections on

Publications incl. research articles, book chapters and conference proceedings

Research and Outputs Incl. Academic publications, presentations, non-traditional outputs, and openly licensed data.

& Case Studies incl. examples of collaborations and activities highlighting areas of research or data analysis carried out for key clients.

Example articles/papers in the most recent **Summary of Research Dissemination** (available to download from the below mentioned link and under 'Publications') include:

Articles from *Open Praxis* highlighted earlier on, as well as

- De los Arcos B, Farrow R, Weller M, and McAndrew P (2016) 'Personalising learning through adaptation: Evidence from a global survey of K-12 teachers' perceptions of their use of open educational resources', *Journal of Online Learning Research*, 2(1), 23-40. Association for the Advancement of Computing in Education (AACE). Accessible via the **LearnTechLib** (The Learning and Technology Library) [online]. Available at: www.editlib.org/p/151664 [accessed 2 January 2020]
- Farrow R, de los Arcos B, and Weller M (2015) 'Who are the Open Learners? A Comparative Study Profiling Non-Formal Users of Open Educational Resources', *European Journal of Open, Distance and E-learning*, 18(2) [online]. Available at: <http://oro.open.ac.uk/44962/> [accessed 2 January 2020]
- Pitt R (2015) 'Mainstreaming Open Textbooks: Educator Perspectives on the Impact of OpenStax College open textbooks', *The International Review of Research in Open and Distributed Learning* (IRRODL) 16(4): 133-155 [online]. Available at: www.irrodl.org/index.php/irrodl/article/view/2381 [accessed 2 January 2020]
- Deimann M, and Farrow R (2013) 'Rethinking OER and their use: Open Education as Building', *International Review of Online and Distance Learning* 14(3) [online]. Available at: www.irrodl.org/index.php/irrodl/article/view/1370/2542 [accessed 2 January 2020].
- McAndrew P, and Scanlon E (2013) 'Open learning at a distance: lessons for struggling MOOCs', *Science*, 342 pp. 1450-1451 [online]. Available at: <http://oro.open.ac.uk/39736/> [accessed 2 January 2020]
- McAndrew P, and Farrow R (2013) "Open Education Research: From the Practical to the Theoretical" in McGreal, R., Kinuthia, W. and Marshall, S. (eds) *Open Educational Resources: Innovation, Research and Practice*. Commonwealth of Learning and Athabasca University, Vancouver. pp.65-78 [online]. Available at: <https://oerknowledgecloud.org/content/open-education-research-practical-theoretical> [accessed 2 January 2020].
- De Liddo A, Buckingham S S, McAndrew, P, and Farrow, R. (2012) 'The Open Education Evidence Hub: A Collective Intelligence Tool for Evidence Based Policy'. In Okada, A. (ed.) *Open Educational Resources and Social Networks: Co-Learning and Professional Development*. London: Scholio Educational Research & Publishing [online]. Available at: http://oer.kmi.open.ac.uk/?page_id=1201#.V6NI_esrJhE [accessed 2 January 2020].

Open Educational Resources (OER) 'Summary of Research Dissemination - OER Hub' [OER Hub – Researching Open Education homepage > Research & outputs > Publications] OER Hub [online]. Further information is available at: <http://oerhub.net/> [accessed 2 January 2020].

Related links:

Open University (OU) UK [online] and available at: www.open.ac.uk/ [accessed 2 January 2020]

Open University (OU) UK, Institute of Education Technology [online] and available at: www.open.ac.uk/iet/main/ [accessed 2 January 2020]

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The Directory of Open Access Journals (DOAJ) –

The Directory of Open Access Journals covers all open access scientific and scholarly journals using a quality control system to guarantee the content.

The aim of the DOAJ is to increase the visibility and ease of open access scientific and scholarly journals, therefore promoting increased usage and impact.

Some key DOAJ facts (as of 02/01/2020):

- 14,147 journals
- 11,189 journals searchable at article level
- 130 countries
- 4,533,039 articles

The Directory of Open Access Journals (DOAJ) <https://doaj.org/> [accessed 2 January 2020]

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e-Journal Review cont.

Taylor and Francis Online

Every month I will be highlighting a few full-text e-Journals that are currently available through the UCEM e-Library.

This month we focus on the latest articles from those Taylor & Francis Online / Routledge journals that we now have full subscription to, and this includes access to the archive of back issues (from 1995 for those journals that have print that go back that far and to the current day) incl.

- *Construction Management and Economics*
- *Building Research and Information*, and
- *Journal of Property Research*.

Construction Management and Economics

1. *Construction Management and Economics* (CME) is the leading international refereed journal that publishes original research concerning the management and economics of building and civil engineering, while also including the management of built facilities.

Taylor and Francis, *Construction Management and Economics* [online]. Available at: www.tandfonline.com/toc/rcme20/current [accessed 2 January 2020]

Example articles/papers in the most recent issue include:

Editorial:

- **Revisiting basics: theoretically-grounded interesting research that addresses challenges that matter**

Chan P W (2020) '**Revisiting basics: theoretically-grounded interesting research that addresses challenges that matter**', *Construction Management and Economics*, 38(1), pp1-10, London: Taylor and Francis Online, DOI: [10.1080/01446193.2019.1702251](https://doi.org/10.1080/01446193.2019.1702251) [accessed 2 January 2020]

Articles:

- **Safety indicators: questioning the quantitative dominance**

Oswald D (2020) '**Safety indicators: questioning the quantitative dominance**', *Construction Management and Economics*, 38(1), pp11-17, London: Taylor and Francis Online, DOI: [10.1080/01446193.2019.1605184](https://doi.org/10.1080/01446193.2019.1605184) [accessed 2 January 2020]

- **"Shared sense of purposefulness": a new concept to understand the practice of coordinating design in construction**

- Çıdık M S and Boyd D (2020) ‘**“Shared sense of purposefulness”**: a new concept to understand the practice of **coordinating design in construction**’, *Construction Management and Economics*, 38(1), pp18-31, London: Taylor and Francis Online, DOI: [10.1080/01446193.2019.1593471](https://doi.org/10.1080/01446193.2019.1593471) [accessed 2 January 2020]
- **The power of humour to unite and divide: a case study of design coordination meetings in construction**
Ponton H, Osborne A, Thompson N, and Greenwood D (2020) ‘**The power of humour to unite and divide: a case study of design coordination meetings in construction**’, *Construction Management and Economics*, 38(1), pp32-54, London: Taylor and Francis Online, DOI: [10.1080/01446193.2019.1656339](https://doi.org/10.1080/01446193.2019.1656339) [accessed 2 January 2020]
- **Populating the social realm: new roles arising from social procurement**
Troje D, and Gluch P (2020) ‘**Populating the social realm: new roles arising from social procurement**’, *Construction Management and Economics*, 38(1), pp55-70, London: Taylor and Francis Online. DOI: [10.1080/01446193.2019.1597273](https://doi.org/10.1080/01446193.2019.1597273) [accessed 2 January 2020]
- **Irish construction cross border trade and Brexit: Practitioner perceptions on the periphery of Europe**
Brooks T, Scott L, Spillane J P, and Hayward K (2020) ‘**Irish construction cross border trade and Brexit: Practitioner perceptions on the periphery of Europe**’, *Construction Management and Economics*, 38(1), pp71-90, London: Taylor and Francis Online. DOI: [10.1080/01446193.2019.1679382](https://doi.org/10.1080/01446193.2019.1679382) [accessed 2 January 2020]
- **Infrastructure maintenance and replacement optimisation under multiple uncertainties and managerial flexibility**
van den Boomen M, Spaan M T J, Shang Y, and Wolfert A R M (2020) ‘**Infrastructure maintenance and replacement optimization under multiple uncertainties and managerial flexibility**’, *Construction Management and Economics*, 38(1), pp91-107, London: Taylor and Francis Online. DOI: [10.1080/01446193.2019.1674450](https://doi.org/10.1080/01446193.2019.1674450)
- Please note:** that this journal can be accessed (IN FULL) via the **VLE e-Library**, and by logging into **Athens – Section 2**, and by selecting **Taylor and Francis Online** via the **Resources tab**.
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Building Research and Information

2. Building Research and Information (BRI) is a leading international refereed journal focused on buildings and their supporting systems. Unique to BRI is a focus on a holistic, trans-disciplinary approach to their life: planning, briefing, design, construction, occupation and use, property exchange and evaluation, maintenance, alteration and end of life. Published articles provide conceptual and evidence-based approaches which reflect the complexity and linkages between cultural, environmental, economic, social, organisational, quality of life, health, well-being, design and engineering of the built environment.

BRI’s wide scope embraces:

- The linkages between the built, natural, social and economic environments, with an emphasis on the interactions between theory, policy and practice: impacts on ecologies, resources (water, energy, air, materials, buildings stocks etc.), sustainable development (social, economic, environmental, and natural capitals) and climate change (mitigation and adaptation).
- The (design, technical, social, organisational, economic) performance, impacts, assessment, contributions, improvement and value of buildings, building stocks and related systems.
- The supply chain capabilities to innovate, design, create, maintain and improve the performance of both buildings and products
- Changing demands and aspirations for architectural design, development and property
- Formulation of public policy; research, academic and innovation capabilities; organisational structures and networks; engagement between research users, policy makers and practitioners to effectively support the above scope and objectives.

Taylor and Francis, *Building Research and Information* [online]. Available at: www.tandfonline.com/toc/rbri20/current [accessed 2 January 2020]

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

Articles:

- **Detecting failures in conservation practice in relation to cultural significance: the case of heritage buildings in Khartoum**

Dalia Adil Attia, I. Maarouf, D. Taha & D. Nassar (2020) ‘**Detecting failures in conservation practice in relation to cultural significance: the case of heritage buildings in Khartoum**’, *Building Research &*

Information, 48:2, pp124-139, London: Taylor and Francis Online, Informa UK Limited, DOI: [10.1080/09613218.2019.1654842](https://doi.org/10.1080/09613218.2019.1654842) [accessed 2 January 2020]

- Combination of nadiral and oblique UAV photogrammetry and HBIM for the virtual reconstruction of cultural heritage. Case study of Cortijo del Fraile in Níjar, Almería (Spain)

Patricio Martínez-Carricondo, Fernando Carvajal-Ramírez, Lourdes Yero-Paneque & Francisco Agüera-Vega (2020) '**Combination of nadiral and oblique UAV photogrammetry and HBIM for the virtual reconstruction of cultural heritage. Case study of Cortijo del Fraile in Níjar, Almería (Spain)**', *Building Research & Information*, 48:2, pp140-159, London: Taylor and Francis Online, Informa UK Limited. DOI: [10.1080/09613218.2019.1626213](https://doi.org/10.1080/09613218.2019.1626213) [accessed 2 January 2020]

- Self-cleaning and colour-preserving efficiency of photocatalytic concrete: case study of the Jubilee Church in Rome

Luciano Cardellicchio (2020) '**Self-cleaning and colour-preserving efficiency of photocatalytic concrete: case study of the Jubilee Church in Rome**', *Building Research & Information*, 48:2, pp160-179, London: Taylor and Francis Online, Informa UK Limited. DOI: [10.1080/09613218.2019.1622405](https://doi.org/10.1080/09613218.2019.1622405) [accessed 2 January 2020]

- Assessment of nanoparticles/nanocomposites to inhibit micro-algal fouling on limestone façades

Javier Becerra, Pilar Ortiz, Ana P. Zaderenko & Ioannis Karapanagiotis (2020) '**Assessment of nanoparticles/nanocomposites to inhibit micro-algal fouling on limestone façades**', *Building Research & Information*, 48:2, pp180-190, London: Taylor and Francis Online, Informa UK Limited. DOI: [10.1080/09613218.2019.1609233](https://doi.org/10.1080/09613218.2019.1609233) [accessed 2 January 2020]

- Service life prediction and environmental exposure conditions of timber claddings in South Chile

A. J. Prieto & A. Silva (2020) '**Service life prediction and environmental exposure conditions of timber claddings in South Chile**', *Building Research & Information*, 48:2, pp191-206, London: Taylor and Francis Online, Informa UK Limited. DOI: [10.1080/09613218.2019.1631143](https://doi.org/10.1080/09613218.2019.1631143) [accessed 2 January 2020]

- Analysis of building maintenance requests using a text mining approach: building services evaluation

Rafaela Bortolini & Núria Forcada (2020) '**Analysis of building maintenance requests using a text mining approach: building services evaluation**', *Building Research & Information*, 48:2, pp207-217, London: Taylor and Francis Online, Informa UK Limited. DOI: [10.1080/09613218.2019.1609291](https://doi.org/10.1080/09613218.2019.1609291) [accessed 2 January 2020]

- Performance measurement of facilities management services in Ghana's public hospitals

Daniel Amos, Zairul Nisham Musa & Cheong Peng Au-Yong (2020) '**Performance measurement of facilities management services in Ghana's public hospitals**', *Building Research & Information*, 48:2, pp218-238, London: Taylor and Francis Online, Informa UK Limited. DOI: [10.1080/09613218.2019.1660607](https://doi.org/10.1080/09613218.2019.1660607) accessed 2 January 2020]

Please note: that this journal can be accessed (IN FULL) via the **VLE e-Library**, and by logging into **Athens – Section 2**, and by selecting **Taylor and Francis Online** via the **Resources** tab.

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Journal of Property Research

3. Journal of Property Research welcomes original papers on any area of real estate investment and development. These may be theoretical, empirical, case studies or critical literature surveys.

There are two major areas of focus:

- Property investment and finance. This covers topics such as the characteristics of property as an investment class, forecasting of markets and property portfolio construction. Much of this research will be an application to property of techniques developed in other investment markets.
- Land development. This covers a wide range of issues surrounding the development and redevelopment of property. The focus may be financial, economic or environmental; urban or rural; public or private sector.

Taylor and Francis, *Journal of Property Research* [online]. Available at: www.tandfonline.com/toc/rjpr20/current [accessed 2 January 2020]

Example **Latest articles**/papers in the most recent issue include:

- The Determinants of Executive Compensation in US REITs: Performance vs. Corporate Governance Factors

Ascherl C, Schrand L, Schaefer W, and Dermisi S (2019) '**The Determinants of Executive Compensation in US REITs: Performance vs. Corporate Governance Factors**', *Journal of Property Research*, 36(4), pp313-342, London: Taylor and Francis Online. DOI: [10.1080/09599916.2019.1653955](https://doi.org/10.1080/09599916.2019.1653955) [accessed 2 January 2020]

- Measuring the cointegration of housing types in Northern Ireland

McCord M, Lo D, McCord J, Davis P T, and Haran M (2019) '**Measuring the cointegration of housing types in Northern Ireland**', *Journal of Property Research*, 36(4), pp343-366, London: Taylor and Francis Online. DOI: [10.1080/09599916.2019.1688851](https://doi.org/10.1080/09599916.2019.1688851) [accessed 2 January 2020]

- What is a 'competitive return' to a landowner? Parkhurst Road and the new UK planning policy environment

Crosby N, and Wyatt P (2019) '**What is a 'competitive return' to a landowner? Parkhurst Road and the new UK planning policy environment**', *Journal of Property Research*, 36(4), pp367-386, DOI: [10.1080/09599916.2019.1690028](https://doi.org/10.1080/09599916.2019.1690028) [accessed 2 January 2020]

- A Study of the Interplay between Intuition and Rationality in Valuation Decision Making

Amidu A-R, Boyd D, and Gobet F (2019) '**A Study of the Interplay between Intuition and Rationality in Valuation Decision Making**', *Journal of Property Research*, 36(4), pp387-418, London: Taylor and Francis Online. DOI: [10.1080/09599916.2019.1687572](https://doi.org/10.1080/09599916.2019.1687572) [accessed 2 January 2020]

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.

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Henry Stewart Publications



Top searching tips from Lucy the Librarian –

The below-mentioned journals can be accessed (IN FULL) via the **VLE e-Library**. Please ensure that you have clicked the **Library login** and have your **Athens** account open. Once you have Athens open, select **Ingenta Connect** from the **Resources** listed, and then '**Publishers**' and '**Henry Stewart Publications**' where you will then see that you have full access to current and archived issues of the following journals incl.

- Applied Marketing Analytics
- **Corporate Real Estate Journal**
- Cyber Security: A Peer-Reviewed Journal
- Journal of Airport Management
- Journal of Brand Strategy
- **Journal of Building Survey, Appraisal and Valuation**
- Journal of Business Continuity & Emergency Planning
- Journal of Cultural Marketing Strategy
- [Journal of Data Protection & Privacy](#)
- Journal of Digital & Social Media Marketing
- Journal of Digital Banking
- Journal of Digital Media Management
- **Journal of Education Advancement & Marketing**
- Journal of Financial Compliance
- Journal of Payments Strategy & Systems

- Journal of Risk Management in Financial Institutions
- Journal of Securities Operations & Custody
- **Journal of Supply Chain Management, Logistics and Procurement**
- **Journal of Urban Regeneration and Renewal**
- Management in Healthcare: A Peer-Reviewed Journal

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e-Journal Review Archive

When I started my role as the UCEM Information Governance Manager, I catalogued over **2000** e-Journal titles onto the A-Z Directory (section 3 of the VLE e-Library) and accessed via **Library login** to gain access to your OpenAthens account.

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' - the study of the future
B	Building Research and Information	H	International Journal of Housing Markets and Analysis
	Business and Management in Higher Ed.	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
D	Development and Learning in Organisations		Open Praxis, a peer-reviewed open access journal (covered later in the e-Journal Review).
	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 (formerly Journal of Property Valuation & Investment)
	Journal of Economic Literature		Property Law Bulletin
	Education + Training		Property Management
	Journal for Education in the Built Env.		Journal of Property Research
	International Journal of Educational Mgmt	Q	Quality Assurance in Education
	Energy, Sustainability and Society	R	Real Estate Economics
	Enhancing Learning in the Social Sciences		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 [S.I.] incl. Property and Construction; International Focus [07/13], Higher Education [08/13], Law [09/13], Research [10/13], Economics [11/13], Sustainability [12/13], Online Learning [01/14], Higher Education Academy Online [03/14], Environment [03/14], Open Access and Online Learning [04/14], Business and

Management Education in Higher Education [05/14], Finance, Financial Management and Accounting [06/14] and Research and Innovation in open, distance and flexible education [07/14], [03/15].

Top searching tips from *Lucy the Librarian* –

The reason why I am listing the topics covered and some of the journals reviewed each month is to provide a quick reference list and tool. Should you wish to access journals relating to a specialist area or journal, you i) access the latest issue of the *Knowledge Foundations* (available via the VLE e-Library and under section 6 – UCEM Published Material), ii) Have a quick browse down the list and identify your specialist journal or focus area. iii) In the case of Special issues, note the month that covered that topic, iv) go back to the VLE e-Library page and v) download the appropriate monthly *Knowledge Foundations* (formerly e-bulletin) which specialises in that subject area. 😊

To access the Directory of e-Journals, visit the VLE e-Library and scroll down to Section 3. Note: to access these journals in full online, you will need to log-in to Athens.

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e-Book Review

The **UCEM VLE e-Library** is continually building on its' e-Book collection. 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.

Top searching tips from *Lucy the Librarian* –

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) hold 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).

The below-mentioned books are either open educational resources or can be accessed via the **VLE e-Library**. Please ensure that you have clicked the **Library login** and have your **Athens** account open. Once you have Athens open, select **DawsonEra** and 'eBook Catalogue' from the menu bar.

Six books that are currently available are as follows:

1. Managing Diversity and Inclusion in the Real Estate Sector
2. Studying at a Distance
3. The new landscape of mobile learning: Redesigning education in an app-based world
4. Rethinking Pedagogy for a Digital Age, 2nd edition
5. Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education
6. ADDING SOME TEC-VARIETY: 100+ Activities for Motivating and Retaining Learners Online
7. Blended Learning in Action: A Practical Guide Toward Sustainable Change

1. Managing Diversity and inclusion in the Real Estate Sector -

Clack A and Gabler J (2019). *Managing diversity and inclusion in the real estate sector* [e-book]. Oxon: Routledge.

e-ISBN-13: 9780429428975

Research shows that high-performing organisations focus on diversity and inclusion (D&I). In any workplace, it is important to both understand and recognise the benefits that having a D&I workforce provides. It is integral to developing people within an organisation, serving clients as best we can, and playing an important leadership role in communities.

Managing diversity and inclusion the real estate sector is the first to place D&I at the centre of successful real estate and construction organisations. It provides guidance to, and most importantly, actions for professionals in the sector who want to make D&I an inherent part of the culture of their organisation. This book has been written to bring the sector up to speed with what D&I is all about and how a D&I strategy can be implemented to secure future success. It presents a practical and easy-to-read guide that can help organisations and their leaders engage with and apply this agenda to win the war for talent in real estate and construction.

This book is essential reading for all property leaders and professionals working in the real estate and construction sectors. Readers will gain especially from personal reflections on all aspects of diversity by a broad range of people working in the property industry.

Keywords: D&I; Diversity; Inclusion; Real Estate; Property Industry; Leadership.

2. Studying at a Distance -

By Talbot, C., (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.

3. 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.

4. Rethinking Pedagogy for a Digital Age –

Edited by Beetham H, and 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

5. 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.

6. ADDING SOME TEC-VARIETY: 100+ Activities for Motivating and Retaining Learners Online -

Adding Some TEC-VARIETY by Curtis J. Bonk and Elaine Khoo

As this book states, "Motivation is central to all things human" and Online teaching and learning are no different.

The authors of this FREE ONLINE BOOK propose the TEC-VARIETY framework as a solution to the lack of meaningful engagement. It can shift learners from nearly comatose states to actively engaged ones. *Adding Some TEC-VARIETY* helps instructors focus on how to motivate online learners and increase learner retention. It also is a comprehensive, one-stop toolkit for online instructors to inspire learners and renew their own passion for teaching. Using 10 theoretically driven and proven motivational principles, TEC-VARIETY offers over 100 practical yet innovative ideas based on decades of author experience teaching in a variety of educational settings.

Source: *Adding Some TEC-VARIETY* by Curtis J. Bonk and Elaine Khoo [online]. Available at: <http://tec-variety.com/> [accessed 2 January 2020]

Please note: The authors have made an online version of this work available under a **Creative Commons Attribution-Non-commercial-Share Alike 3.0 License**; for details, please see <http://creativecommons.org/licenses/by-nc-sa/3.0/us/> [accessed 2 January 2020]. The e-book PDF can be accessed through the book homepage [online]. Available at: <http://tec-variety.com> and <http://tec-variety.com/freestuff.php> [accessed 2 January 2020]

7. Blended Learning in Action: A Practical Guide Toward Sustainable Change

- This is a book review of Tucker, Wycoff, and Green's *Blended Learning in Action: A Practical Guide Toward Sustainable Change*. This review will discuss the basic information from the book, the people who would most benefit from reading it, and the portions of the book most applicable to practitioners.

Keywords: Blended Learning; Differentiation.

Rowland, H. (2019) 'A Book Review of Blended Learning in Action: A Practical Guide Toward Sustainable Change', *Online Learning [online]*, 23(2), June 2019. ISSN 2472-5730. Available at: <https://olj.onlinelearningconsortium.org/index.php/olj/article/view/1483> [accessed 2 January 2020]. doi: <http://dx.doi.org/10.24059/olj.v23i2.1483> [accessed 2 January 2020]

Source: *Online Learning Journal* [online], **Volume 23, No. 2, June 2019**. Available at <https://olj.onlinelearningconsortium.org/index.php/olj> [accessed 2 January 2020] Online Learning Consortium (OLC)

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

The primary aim of DOAB is to increase discoverability of Open Access books. Academic publishers are invited to provide metadata of their Open Access books to DOAB. Metadata will be harvestable in order to maximize dissemination, visibility and impact. Aggregators can integrate the records in their commercial services and libraries can integrate the directory into their online catalogues, helping scholars and students to discover the books. The directory is open to all publishers who publish academic, peer reviewed books in Open Access and should contain as many books as possible, provided that these publications are in Open Access and meet academic standards.

Some key DOAB facts (as of 23/12/2019):

- **26,181** Academic peer-reviewed books from
- **366** publishers

The Directory of Open Access Books (DOAB) www.doabooks.org/doab [accessed 2 January 2020]

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Latest book and journal titles

Latest book titles from

Elsevier is a world-leading provider of information solutions that help you make better decisions, deliver better care, and sometimes make ground-breaking discoveries in science, health, and technology.

Built Environment including Architecture, Building and Construction, and Property and Real Estate [online].

Further information is available at: www.elsevier.com/ [accessed 2 January 2020]

LawTrove [online]. Further information is available at: www.oxfordlawtrove.com/ [accessed 2 January 2020]

- Oxford University Press (OUP) is a leading publisher of legal education materials, producing a broader and deeper range than any other publishers. **Law Trove** takes that award content and makes it available online, to suit your way of working. Studying law is about discovery; finding the links, examining the detail, and unravelling the connections make it a complex and fascinating subject. **Law Trove** facilitates a rounded and complete study of law. Its powerful search facility means you can delve deeper into your life, navigate more easily, and connect with additional resources in your own institution's library collection. **N.B.** There is a section where you can search the catalogue and 'access free content / Open Access material'.

Palgrave Macmillan - From award-winning research which changes the world to textbooks and study guides which educate and inspire, Palgrave Macmillan publish across the humanities, social sciences and business for academics, students, professionals and librarians worldwide. Palgrave Macmillan [online]. Further information is available at: www.palgrave.com/gb/ [accessed 2 January 2020]

Taylor & Francis/Routledge – T&F (an Informa business) is a world-famous name in academic and professional books, journals and online resources relating largely to the humanities, social sciences, the Built Environment and Sustainability.

Visit Taylor & Francis online @ www.tandfonline.com [accessed 2 January 2020]

Taylor & Francis Open and Routledge Open - Taylor & Francis and Routledge currently publish a number of pure open access journals, with no subscription content. The articles in these journals receive both rigorous peer review and expedited online publication [online] and available @ www.tandfonline.com/openaccess [accessed 2 January 2020]

Latest info: Property and Real Estate catalogue [online] and available at: www.routledge.com/collections/4812 [accessed 2 January 2020]

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 2 January 2020]

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.routledge.com/textbooks/sustainability [accessed 2 January 2020]

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 2 January 2020] and <http://eu.wiley.com/WileyCDA/> [accessed 2 January 2020].

'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 2 January 2020]

Wiley Open Access [online]. Further information is available at:

<http://olabout.wiley.com/WileyCDA/Section/id-406071.html> [accessed 2 January 2020]

- Business and Management [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000028> [accessed 2 January 2020]
- Economics [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000047> [accessed 2 January 2020]
- Law [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000076> [accessed 2 January 2020]
- Civil Engineering and Construction [online]. Further information is available at: <http://onlinelibrary.wiley.com/subject/code/000034> [accessed 2 January 2020]

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Information Governance incl. © Guidance and Data Protection:

With new technologies 'constantly emerging' and us finding ourselves moving further into an ever more digital direction, one of my main objectives within the UCEM Library is to make identifying relevant information easier.

I recognise that in an information-rich age, everyone is pressed for time and it can be a real challenge to find relevant and credible resources just when you need them. There, another objective is to signpost staff and students to accessible quality information resources that will supplement teaching and learning materials and support students through their studies and continuing professional development.

Information Governance and Compliance - UCEM is committed to advancing information governance and compliance, ensuring that the service provided comply with the General Data Protection Regulation (GDPR), Data Protection, Freedom of Information, Records management, Copyright, and Information Security.

To make sure that information is available in the right place and at the right time to support others, the e-Library ensures that the information services provide comply with data protection and copyright.

With **copyright** –

“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: it 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 2 January 2020]

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CLA Title search tool

The **CLA Title Search** is an online search tool that lets you quickly find out what you can copy under your organisation’s CLA licence.

Whether you’d like to photocopy and distribute an article to colleagues or upload a report to an intranet or VLE, the CLA Title Search simplifies the steps required to ensure compliance.

UCEM has a **CLA ‘Independent Higher Education Photocopying and Scanning Licence’**

CLA Higher Education, Check Permissions @ www.cla.co.uk/higher-education-licence [accessed 2 January 2020]

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Further guidance on Copyright and Digital Copyright incl.

- What is copyright? @ www.cla.co.uk/what-is-copyright [accessed 2 January 2020]
- When does copyright arise?
- What does copyright protect?
- Who owns copyright?
- Joint ownership of copyright
- What rights does a copyright owner have?
- How long does copyright last?
- Copyright infringement
- Remedies for copyright infringement
- Copyright exceptions
- Obtaining clearance to use copyright material
- CLA and copyright licences

Related organisations and links @ www.cla.co.uk/related-organisations, and www.cla.co.uk/ [accessed 2 January 2020]

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5 Ways to find images for your website

The author of this article highlights the point that finding good images online is fairly easy but finding images that are licensed for reuse can be hard.

It is often difficult to know when it's ok to reuse an image that has been published online and when it's not. The internet may be a global network, but each country has different copyright laws and there are not simple best practice rules applicable to everyone.

Within this blog, the author takes a look at a best practice example of online image attribution, some of the problems that face anyone trying to work out if they can reuse an image online and five ways to find images licensed for reuse, including:

- The Creative Commons search tool
- Museums, Libraries and Archives
- Getty images
- Gratisography
- Taking your own photo!

Patrick, E., Online Information Manager at CILIP, the Chartered Institute for Library and Information Professionals, 18th September 2014, '5 ways to find images for your website' [online blog].

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Legal 101 – Know your copyrights from wrongs

Copyright is an issue rarely discussed in construction and development projects, but one that can have far-reaching implications if the relevant permissions are not properly put in place. A Copyright Owner has the right to prevent others from carrying out numerous acts, including copying, adapting, or issuing copies to the public.

What is a copyright work? Any project that involves the creation of new “works” such as research, plans, photographs, diagrams, models, plans or charts – as well as the building itself – will need to consider who owns the copyright in those works.

Who owns the copyright? The first owner of copyright in any work is the author or, if any employee, his or her employer. More than one person can be an author, whether they have worked together or separately. It is also possible for more than one person to own the copyright.

Assignment or Licence? Although it is possible to agree to transfer – or assign – the ownership of copyright, this is rare in the construction and development industry. Consequently, architects, planners and surveyors will each own copyright in the works they produce and have the power to prevent others from using their work at all, or for any purposes other than expressly permitted, as well as controlling permitted uses.

What should a licence cover? Permission to use a copyright work is granted in a licence. This can either be a separate document or included as part of a more wide-ranging contract. The licence sets out exactly who can do what with the relevant copyright work, so it is important that the scope is wide enough to cover everything that may be needed for the project, and, subsequently, permission is given to all people or entities who will need it.

Source: Wheeler, P., partner, Collyer Bristow, March 2015, RICS MODUS, *Legal 101 – Know your copyrights from wrongs*, p47.

Royal Institution of Chartered Surveyors (RICS), *Modus*, March 2015 – The Africa issue [online], RICS, Knowledge, Journals. Available at: www.rics.org/uk/news-insight/publications/modus/ [accessed 2 January 2020]

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Latest Copyright News:

Keeping abreast of the latest developments in Information Governance

UCEM is committed to advancing information governance and compliance, ensuring that the services provided comply with GDPR, Data Protection, Records Management, **Copyright**, and Information Security.

Part of my role as Information Governance Manager involves keeping abreast of the latest developments and benchmarking the work, I do against that of others. I also undertake regular Continuing Professional Development (CPD) and an element of this is attending the CITE Forum. **CITE** stands for the **Copyright and Information Technologies in Education**. Meetings of the Forum provide great opportunities for sharing ideas and best practices; networking with colleagues; discovering different methods for using library workflow platforms; and of course, having a catch-up with like-minded people over lunch.

Recently I attended the Summer CITE Forum that took place on 30th May and held at the University of Sheffield. We were updated on the latest developments in relation to the CLA's Digital Content Store (DCS) - an innovative web-based platform that combines a searchable repository of digitised book and journal extracts with an online workflow management tool. **Please note:** UCEM are hoping to implement the DCS for next Semester to help improve student experience especially in relation to our scanned resources.

Further information is available at: CLA (2019) 'Digital Content Store' [online]. Available at: www.cla.co.uk/digital-content-store [accessed 2 January 2020]

Other developments incl. New Copyright Licensing Agency (CLA) Higher Education Licence 2019-2022, The Teaching Excellence Framework, and how libraries can contribute to the TEF at their institutions. There were also breakout sessions that focused on tips, tricks and strategies on how to engage academics with reading lists.

Further information is available at:

Copyright Licensing Agency (CLA) 'A CITE to behold', CLA [online], 3 June. Available at: www.cla.co.uk/news/cite-summer-2019 [accessed 2 January 2020]

Related Links:

The Intellectual Property Office Issues Guidance on "Changes to Copyright Law After Brexit"

In the framework of the documents issued in preparation for Brexit, the Intellectual Property Office has issued on 18 October 2019 a **new guidance on copyright law after Brexit**.

It states that EU copyrighted works will be protected in the UK, thanks to the **Intellectual Property (Copyright and Related Rights) (Amendment) (EU Exit) Regulations 2019**. Though this guidance does not constitute legal advice, it contains useful information for RU and UK right holders.

Source: GOV.UK (2019) 'Guidance: Changes to copyright law after Brexit', GOV.UK [online]. Available at: www.gov.uk/guidance/changes-to-copyright-law-after-brexit?utm_source=2ebfd043-a4b0-4912-aa90-61b2ade00d79&utm_medium=email&utm_campaign=govuk-notifications&utm_content=daily#contents [accessed 2 January 2020]

Legislation.gov.uk (2019) 'The Intellectual Property (Copyright and Related Rights) (Amendment) (EU Exit) Regulations 2019', Legislation.gov.uk [online]. Available at: www.legislation.gov.uk/ukxi/2019/605/contents/made [accessed 2 January 2020]

Further information is available at: Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 January 2020].

Heritage Update e-Bulletin [online], Issue **No 405**, 29 October 2019, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2020]

BBC News > Copyright [online]. Available at: www.bbc.co.uk/news/topics/c4wl5zqxv9xt/copyright [accessed 2 January 2020]

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 2 January 2020]

EU votes for copyright law that would make internet a 'tool for control'

Rankin J (2018) 'EU votes for copyright law that would make internet a 'tool for control'', *The Guardian*, Internet [online], 20 June. Available at: www.theguardian.com/technology/2018/jun/20/eu-votes-for-copyright-law-that-would-make-internet-a-tool-for-control [accessed 2 January 2020]

From the above-mentioned link you can also gain further information about **Internet; Intellectual property; European commission; Europe; Small business; European Union and news**

Find the **latest copyright news** from WIRED incl. Finley K (2018) 'Europe's New Copyright Law Could Change The Web WorldWide' [WIRED > Home > Business] WIRED [online]. Available at:

www.wired.com/story/europes-copyright-law-could-change-the-web/ [accessed 2 January 2020]

The Guardian Online (2018) European Commission [online]. Available at:

www.theguardian.com/world/european-commission [accessed 2 January 2020]

The Guardian Online (2018) Europe [online]. Available at: www.theguardian.com/world/europe-news [accessed 2 January 2020]

Malik K (2018) 'A fairer deal on web copyright doesn't need the boomer boots from Brussels', *The Guardian*, Internet, Opinion [online], 8 April. Available at: www.theguardian.com/commentisfree/2018/apr/08/fairer-deal-on-web-copyright-eu-free-speech-open-access [accessed 2 January 2020]

- Free speech and open access are at risk from EU plans to reform legislation for the digital age.

Electronic Frontier Foundation website [online]. Available at: www.eff.org/ [accessed 2 January 2020]

Lucy's top searching tips – If you are searching for i.e. 'Joint letter to European politicians on Article 13 of Directive on Copyright in the Digital Single Market' [online]. Available at:

www.eff.org/search/site/article%2013%20of%20the%20EU%20copyright%20Directive [accessed 2 January 2020], ensure you reference from a public domain 'landing page'

i.e. Electronic Frontier Foundation (2018) 'Joint letter to European politicians on Article 13 of Directive on Copyright in the Digital Single Market' [online]. Available at: www.eff.org/document/joint-letter-european-politicians-article-13-directive-copyright-digital-single-market [accessed 2 January 2020],

rather than to the holding page where the PDF sits in the background. The reasoning for this is that (i) holding page links can change, (ii) documents can be moved around and (iii) in some cases where copyright permission has been sought and agreed for organisations to upload PDF documents, it is good academic practice to ensure that you do not link direct to the PDF itself, and locate either the original source, or link to a public domain website where T&Cs and copyright can be reviewed. Also, by referencing items correctly and using search facilities as identified above, if hyperlinks do not work, you will have sufficient information (within the reference) to hopefully be able to source the item elsewhere.

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Data Protection



General Data Protection Regulations (GDPR)

On 25 May 2018, the EU General Data Protection Regulation (GDPR) replaced the EU's Data Protection Directive 95/46/EC. GDPR was designed to harmonise data privacy laws across Europe, to protect and empower all EU citizens' data privacy and to reshape the way organisations across the region approach data privacy.

GDPR resulted from EU legislation which updated data protection legislation into line with the numerous ways that data is now used. Hitherto, the UK abided by the Data Protection Act 1998. This was superseded by the GDPR legislation and ushered in higher penalties for breaches and non-compliance.

What are the aims and benefits of GDPR? Put simply, GDPR was designed to give the public more say over which organisations have access to their data and what they do with it. GDPR will apply to personal data. GDPR was aimed at protecting all EU citizens from privacy and data breaches in an increasingly data-driven world that is vastly different from the time in which the 1995 directive was established.

What are the key changes? The key changes are described as:

- **Increased Territorial Scope (extra-territorial applicability)** – GDPR applies to all companies processing the personal data of data subjects residing in the European Union, regardless of the company’s location.
- **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.

Data Subjects Rights – Under GDPR, organisations must consider how they store personal data and organise themselves appropriately. For data subject rights, this includes:

- **Breach Notification** to become mandatory in all EU member states where a data breach is likely to “result in a risk for the rights and freedoms of individuals”. This must be done within **72 hours** of first having become aware of the breach. Data processors will also be required to notify their customers, the controllers, “without undue delay” after first becoming aware of a data breach
- **Right to access** is the right for data subjects to obtain from the data controller confirmation as to whether or not personal data concerning them is being processed, where and for what purpose. Further, the controller shall provide a copy of the personal data, free of charge, in an electronic format.
- **Right to be forgotten/Data erasure** entitles the data subject to have the data controller erase his/her personal data, cease further dissemination of the data, and potentially have third parties halt processing of the data.
- **Data portability** is the right for a data subject to receive the personal data concerning them, which they have previously provided in a ‘commonly used and machine-readable format’ and have the right to transmit that data to another controller.
- **Privacy by design** calls for the inclusion of data protection from the onset of the designing of systems, rather than an addition. More specifically – ‘The controller shall ... implement appropriate technical and organisational measures ... in an effective way ... in order to meet the requirements of this Regulation and protect the rights of data subjects’.
- Under GDPR, **Data Protection Officers (DPO)** will not be required to submit notifications / registrations of each local DPA of data processing activities. Instead, there will be internal record-keeping requirements. DPO appointment will be mandatory only for those controllers and processors whose core activities consist of processing operations which require regular and systematic monitoring of data subjects on a large scale or of special categories of data or data relating to criminal convictions and offences.

Will GDPR matter for organisations in the UK after Brexit? If companies in the UK 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: Kirkup A (2019) ‘General Data Protection Regulations (GDPR)’, Institution of Civil Engineers (ICE), last edited 28 October 2019.

Designing Buildings.co.uk Wiki, (2019) ‘General Data Protection Regulations (GDPR)’ [online], last edited 28 October 2019. Further information is available at: www.designingbuildings.co.uk/wiki/Home_and [www.designingbuildings.co.uk/wiki/General_Data_Protection_Regulations_\(GDPR\)](http://www.designingbuildings.co.uk/wiki/General_Data_Protection_Regulations_(GDPR)) [accessed 2 January 2020]

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Further information, advice and guidance on the General Data Protection Regulation (GDPR)

- With new technologies constantly emerging and us finding ourselves moving further inform an ever more digital direction, our personal data, how it is used and who has access to it becomes a growing and global concern for all.

The General Data Protection Regulation (GDPR) is the first legislative change in recent years that will address these concerns, with a broad aim to invoke a cultural shift in the way organisations 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

Source: Information Commissioner's Office (ICO), *Resource and support* [online]. Available at: <https://ico.org.uk/for-organisations/resources-and-support/> [accessed 2 January 2020]

Related Links:

Information Commissioner's Office [n.d.] 'Advice service for small organisations' [online]. Available at: <https://ico.org.uk/global/contact-us/advice-service-for-small-organisations/> [accessed 2 January 2020]

Korn N (2019) '**GDPR and the Data Protection Act, one year on. What have we learnt?**' [online], Naomi Korn Copyright and Compliance, 28th May. Available at: <https://naomikorn.com/2019/05/28/gdpr-and-the-data-protection-act-one-year-on-what-have-we-learnt/> [accessed 2 January 2020]

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Data Protection Act 2018

The Data Protection Act 2018 achieved Royal Assent on 23 May 2018. The Act implements provision relating to GDPR among other things. The Government has **published an overview** of the Act, information on **general processing of personal data**.

The Information Commissioner's Office (ICO) has been **granted new powers** to act swiftly when people's data has been breached and allow her to hold rogue companies to account. This includes being able to:

- Issue fines of up to £17 million or 4 per cent of global turnover for the most serious data breaches
- Demand access to an organisation's premises to carry out 'no notice' inspections without a warrant
- Request a court order to force someone to share information, with the prospect of criminal convictions when this is not followed.

Source: Heritage Update e-Bulletin [online], Issue **No 371**, 1 June 2018, The Heritage Alliance. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2020]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 January 2020]

BBC News, Technology (2018) 'Facebook faces £500,000 fine from UK data watchdog' [online], 11 July 2018. Further information is available at: www.bbc.com/news/technology-44785151 [accessed 2 January 2020]. **N.B.** From this above-mentioned web-link you can also gain further information about **Privacy**; **Facebook**; and **Facebook-Cambridge Analytica data scandal**

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Useful online resources

1. Construction Information and Guidance available through the **HSE** -

Within the Health and Safety Executive (HSE) website, there is a wealth of information surrounding Construction.

Lucy's Top Searching Tips

By typing in '**Construction**' within the search engine at the top of the website @ www.hse.gov.uk [accessed 2 January 2020] 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 – Latest statistic summary 2017/18 - www.hse.gov.uk/statistics/fatals.htm

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

[N.B. Websites accessed 2 January 2020]

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

(formerly British Council of Shopping Centres (BCSC))

BCSC (British Council of Shopping Centres) was the professional body for retail property – an authoritative voice for UK retail-led regeneration and for the management of and investment in shopping places. However, BCSC is changing and is now Revo.

Revo supports the people and businesses involved in the diverse world of retail property and placemaking to thrive and prosper – energizing and driving progress for our community. As stated within their new website:

A broader remit – Revo are now embracing all kinds of retail property and all kinds of stakeholders. This diversity makes Revo uniquely placed to champion real improvements and positive change for this sector

Working together – Revo intend to harness the collective experience, as well as the influence and resources of their network to challenge and shape this industry for the future

The influencers – Revo are there to help shape the future of the retail property and placemaking industry. They will be engaging with even more senior figures in key government departments to raise awareness of Revo locally and nationally.

The network – Who you know is just as important as what you know. Revo members have a broad base, with specialisms and experience of all kinds. Revo aim to create more relevant and accessible business and career development opportunities and make sure the industry has the right people, with the right skills.

The benchmark – Revo sets standards, recognizes achievement and sparks ideas. A new educational programme will meet the needs of industry professionals throughout their careers, and there will be a renewed focus on apprenticeships. Revo are also expanding their Awards Programme to better reflect the diversity of the industry.

The trend spotters and thought leaders – Revo intends to stay ahead of the curve, prepared for and embracing the future. They will analyze trends, interpret market data and organize focused working groups and think tanks run by true experts in their fields. They will produce pioneering research and insight papers and establish Revo as the place to come for authoritative commentary.

Having a broad message membership means that the Revo community stay well informed about the large range of issues affecting property owners, developers, investors, asset managers, retailers, consultants, shopping centre managers and public-sector employees and can utilize this network to develop solutions to many of the industry's current challenges.

- **Revo Insights** – Revo conduct innovative research into new trends and are the go-to organization for authoritative commentary and insight on industry and political issues. Revo produce thought-provoking content and engaging communications, making sense of the future of our community. Information contained within incl. Latest research and quarterly retail briefings, Industry reports, Guidance notes, Opinion and Trend Bites. Revo Insights [online]. Available at www.revocommunity.org/insights [accessed 2 January 2020]
- **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 2 January 2020]

Source: British Council of Shopping Centres (BCSC), now **Revo - Retail. Property. Community** [online]. Available at: www.revocommunity.org/ [accessed 2 January 2020]

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3. **The National Building Information Modelling (BIM) Library** -

Source: NBS (2017), *NBS National BIM Library* [online] and available at: www.thenbs.com/services/our-tools/nbs-national-bim-library & NBS homepage [online] and available at: www.thenbs.com/ & NBS Knowledge [online] and available at: www.thenbs.com/topics/index.asp [accessed 2 January 2020] –

Introducing NBS

NBS (trading name of RIBA Enterprises Ltd, and wholly owned by the Royal Institute of British Architects (RIBA)) is committed to offering distinctive, innovative specification and information solutions to construction industry professionals. They have produced specification for over 40 years, including the recognised national standard specification system for the UK. Their NBS specification products cover building construction, engineering services and landscape design. They also produce a range of information products, including The National BIM Library and The Construction Information Services (which UCEM subscribes to).

Lucy's Top Searching Tips

You will note within the toolbar at the top of NBS that there are sections entitled, 'Services', 'Knowledge' and 'Support':

Services – NBS ensure construction industry professionals have access to the right information at the right time in the right way. NBS's specification and collaboration, building product and construction knowledge tools and services enables delivery of outstanding projects in an informed, collaborative and efficient way. NBS services are for – Architecture; Building Services Engineering; Structural Engineering; Landscape Architecture; Small Projects; BIM Projects; For Enterprise; For Local Authorities; and Building Product Manufacturers.

Knowledge – NBS's subject specialists' author a wide range of interesting articles that help you make informed decisions and deliver the best projects for your clients

Topic areas include

- Building Information Modelling (BIM),
- Design and Specification,
- Construction Products,
- Contracts and Law,
- Plan of Work and Project Administration,
- Standards and Regulations,
- Sustainability,
- Health and Safety,
- **Additional topics incl.** Classification; Climate change; flooding; Green walls; Heating; IFC; Landscape; PAS 1192-2; Procurement; RIBA Plan of Work; Roofing; Students; Tendering; and Ventilation
- **Construction products incl.** Insulation; Lighting; and Timber
- **Building types incl.** Historic buildings; Museums; and Sports grounds
- **Content type incl.** Book extract; Event preview/review; Publication Index; Surveys; and Video

- **Content series incl.** Ecobuild 2016; Are you BIM ready? The Construction Act – One year after; Climate change adaptation in buildings; and Flood mitigation solutions in buildings
- **NBS Services incl.** NBS BIM toolkit; NBS Building; NBS Create; and NBS National BIM Library
- **NBS Reports incl.** National BIM Report; and NBS National Construction Contracts and Law Survey

N.B. Within each topic area has further information incl. Articles, Reports, **VIDEOS**, Recommended reading and Bibliographies.

Source: NBS (2017),

NBS National BIM Library [online] and available at: www.thenbs.com/services/our-tools/nbs-national-bim-library ,

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

& NBS Knowledge [online] and available at: www.thenbs.com/topics/index.asp [accessed 2 January 2020]

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4. **Infabode** – The daily resource for Real Estate professionals and students

The web has become overloaded with information, most of which is spread across thousands of company websites, and therefore accessing this comparable information can be both time consuming and frustrating at times.

Infabode works with a network of content partners, and by having all this information in one place provides a powerful platform for the real estate industry. Each user is then able to customise the platform to select and cater for their specific areas of interest.

Some key facts:

- Content from **400+** Real Estate partners globally
- Over **250,000+** pages of industry information
- Opportunity to connect with over **17,000+** Real Estate professionals

Infabode allows users to choose from the real estate sectors that they are most interested in. The platform connects you with information from the **following markets** (incl. Office; Retail; Investment Vehicles; Residential; Capital Markets and Economics; Industrial; Student Halls; Hotels; Sustainability; Property Technology; Mixed User; Logistics; Accounting; Alternative sectors; Legal; Debt; and Rural.

Please note: To register and access **Infabode**,



For further information, please visit:

PropertyEU TV Channel (2016) ‘The Infabode real estate information platform explained – Andrew Baum’, YouTube [video]. Available at: www.youtube.com/watch?v=oKPwleWFbXQ [accessed 2 January 2020]

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5. **RICS** (Royal Institution of Chartered Surveyors)

- **RICS (Royal Institution of Chartered Surveyors)** is an independent body committed to setting and upholding the highest standards of excellence and integrity in land, property and construction -

RICS are a global professional body promoting and enforcing the highest international standards in the valuation, management and development of land, real estate, construction and infrastructure.

By visiting RICS website, you will gain access to a range of

RICS Useful links @ www.rics.org/uk/ [accessed 2 January 2020] that provides direct links through to information relating to the following topic areas/keywords incl.

• Environment, • Geomatics, • Minerals & waste, • Planning & development, • Rural, • Arts & antiques, • Commercial property, • Dispute resolution, • Facilities management, • Machinery & assets, • Management consultancy, • Residential property, • Valuation, • Building control, • Quantity surveying & construction, • Project management, • Building surveying, • BIM, • Infrastructure, • Measurements, and • Party walls, as well as a video – ‘The work that shapes our world | RICS’.

Royal Institution of Chartered Surveyors (2018), RICS UK [online]. Available at: www.rics.org/uk/ [accessed 2 January 2020]

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 2 January 2020]

RICS Library Services [online]. Available at: www.rics.org/uk/footer/library-services/ [accessed 2 January 2020]

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6. **Chartered Institute of Building (CIOB) Insight** –

CIOB Insight – CIOB’s aim is to advance construction management education and to give access to that knowledge so that it can be shared and added to. CIOB do this in several ways and via the above-mentioned link you can gain access to CIOB views on leading issues within the industry, access to special interest groups and information contained within their library, along with data they create through their membership and beyond.

Sections include:

- **Policy and Public Affairs** – including Consultations, Research, Resources and News&Views. **CIOB Policy & Public Affairs** [online]. Available @ <https://policy.ciob.org/> [accessed 2 January 2020]. Policy latest is cover earlier in the e-bulletin.
- **Ambassadors** and informed about the CIOB ambassador programme
- **Magazines** – including information and access to **Construction Research and Innovation (CRI), The Construction Manager Magazine (CM), and Global Construction Review (GCR)**. CIOB Magazine [online]. Available @ www.ciob.org/media-centre/magazines [accessed 2 January 2020];
- **CIOB Library** offering a collection of construction-related resources
- **Special Interest groups** incl. **Architecture & Surveying; Building Standards & Performance; Conservation, Adaptation & Refurbishment; Contracts & Dispute Resolution; Digital Technologies in Construction; European Projects; Facilities Management; Health & Safety; Innovation & Research Panel; and Time Management**. CIOB, Special Interest [online]. Available @ www.ciob.org/special-interest [accessed 2 January 2020]
- **Research** – The CIOB research section is freely available (**Note:** but its title, source and date of publication must be acknowledged if cited. Any content, including data and analysis, must also be reported accurately and not used in a misleading context). **CIOB Research [online]**. Available @ <https://policy.ciob.org/research/> [accessed 2 January 2020]. Archived research that CIOB has undertaken incl. *The Changing Role of Women in Construction; The Cowboy Builder: A Public Perspective; Innovation in Construction; Occupational Stress in Construction; UK Construction Report on Sustainability; Managing the Risk of Delayed Completion*, and others. **Please note** the CIOB’s latest research is covered earlier in this issue.

Chartered Institute of Building (CIOB), 2018, **Insight** [online]. Available at: www.ciob.org/insight [accessed 2 January 2020]

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7. **Inclusive Design Hub for the Built Environment** -

This Inclusive Design Hub for the Built Environment is a project of The Design Council who champion great design that improves lives and makes things better.

This Hub is a collection of the latest guidance and best practice on inclusive design in the Built Environment and has the following sections that can be searched upon incl.

- **Sectors:** Culture & Leisure; Transport; Education; Housing; Healthcare; Commercial; Heritage; Government; and Retail
- **Scale & Setting:** Urban; Public realm; Neighbourhood; Single Building; and Rural
- **User Journey:** Circulation and navigation; Visitor facilities; Entry and Exit; Arrival; Pre-arrival and Information
- **Resource Type:** Guidance and Interpretation; Technical resources; Case studies and good practice; and Regulation and legislation
- **Inclusion Type:** Physical inclusion; Visual inclusion; Cognitive inclusion; Social inclusion; Auditory inclusion; Demographic inclusion
- **Development phase:** Design; Management and Maintenance; Planning; Consultation and Engagement; Construction and Inception and definition.

Further information and to search upon the **Inclusive Design Hub**, please visit **The Design Council** [online]. Available at www.designcouncil.org.uk [accessed 2 January 2020] and select **Projects** and **Inclusive Design Hub for the Built Environment** [online]. Available at: www.designcouncil.org.uk/projects/inclusive-design-hub-built-environment [accessed 2 January 2020] 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 **OpenAthens gateway** (by clicking ‘**Library login**’) www.openathens.net/ and by selecting ‘**IHS Information Services (incl. the Construction Information Service (CIS))**’. The Briefing can be downloaded from the CIS homepage.

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8. Building Research Establishment (BRE)

BRE are an innovative group of researchers, scientists, engineers and technicians who share a common goal – to make the built environment better for all.

Through the BRE Group companies BRE and BRE Global, they generate new knowledge through independent research. This is used to create the products, standards and qualifications that help to ensure buildings, homes and communities are safe, efficient, productive, sustainable and enjoyable places to be. BRE customers use their expertise and services to deliver their social, environmental and economic goals.

Useful web links provide useful information resources incl.

- **News and Events** [online] and available @ <https://bregroup.com/news> [accessed 2 January 2020]
- **BRE Services** incl. Advisory, Conferences, Research, Testing, Certification and listing, Expert witness, Standards, and Training [online]. Available at: <https://bregroup.com/services/> [accessed 2 January 2020]
- **BRE Expertise** incl. BIM, Fire, Resilience, Security, Energy, Innovation, Safety, and Sustainability [online]. Available at: <https://bregroup.com/expertise/> [accessed 2 January 2020]
- **BRE Sectors** Incl. Property, Product manufacturing, and Construction [online]. Available at: <https://bregroup.com/sectors/> [accessed 2 January 2020]
- **BRE Products** incl. BREEAM, BRE Academy, Digital tools, CEEQUAL, Home Quality Mark, LPCB, SABRE, and SmartSite [online]. Available at: <https://bregroup.com/products/> [accessed 2 January 2020]
- **BRE Networks** incl. APRES, BRE Innovation Parks Network, BRE Women’s Network, Centre for Smart Homes & Buildings, Commercial Partnerships, Constructing Excellence, and UK Green Building Council [online]. Available at: <https://bregroup.com/networks/> [accessed 2 January 2020]

Building Research Establishment (BRE) [online] and available @ <https://bregroup.com/> [accessed 2 January 2020]

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9. Global Research Gateway: CBRE’s online resource for Real Estate Research -

- CBRE, the global leader in real estate services and investment.

Every day, in markets around the globe, CBRE apply insight, experience and resources to help clients make informed real estate decisions. Every year, they complete thousands of successful assignments across a wide range of markets and real estate service lines.

CBRE's deep experience and expertise allows them to paint a precise picture of global commercial real estate conditions and trends. It allows them to recognize opportunities quickly and take advantage of them.

CBRE's mission is to deliver consistently superior results by:

- Always putting the client first
- Bringing the best talent to every assignment
- Collaborating across markets and service lines
- Capitalizing on the depth of our market information and insight

CBRE has a **Global Research Gateway**: Your source for Real Estate Research [online]. Available at <https://researchgateway.cbre.com/> [accessed 2 January 2020]

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10. **TRUSTDR (Trust in Digital Repositories)** –

TRUSTDR (Trust in Digital Repositories) – a research project that examined how to effectively manage the legal aspects of digital collections of learning resources and produced a policy development toolkit.

It should be especially used for those wanting to provide a sound legal foundation for an institutional open education policy. It did this by critically examining the cultural, educational and technical factors involved and produced practical solutions and analyses. It took a very broad approach to the subject and examined issues of professional and organisational change in relation to the use of technology in education. All the outputs are freely available under a Creative Commons attribution **CC-BY licence**. You can access the project web site via the TRUSTDR (Trust in Digital Repositories) website [online]. Available at: <http://trustdr.digitalinsite.co.uk/> [accessed 2 January 2020]

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11. **The CIT-EA Project Creating Innovative Technology – Enhanced Assessments)** –

The CIT-EA Project Creating Innovative Technology – Enhanced Assessments) – a research project that explored ways to increase the amount of assessment in Further and Higher Education using technology.

Its 'signature' approach was to use systems theory to explore and identify the barriers to the adoption of e-assessment and identify workable solutions – it also had a focus on using learning design concepts especially the use of 'design patterns' in the form of assessment re-design templates. All the outputs are freely available under a Creative Commons attribution **CC-BY licence**. You can find the project website via the CIT-EA Project Creating Innovative Technology – Enhanced Assessments website [online]. Available at:

<http://citea.digitalinsite.co.uk/> [accessed 2 January 2020]

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12. **Jisc Library Hub Discover (formerly COPAC*)** –

Jisc Library Hub Discover (formerly 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. This new service is being built on the Jisc National Bibliographic Knowledgebase, whilst the new interface development is part of wider Jisc Library Services redevelopment activity. Note: Institution of Civil Engineers (ICE) Library catalogue is now part of Jisc Library Hub Discover.

Note: From July 31st 2019 Copac [online]. Available at: <https://copac.jisc.ac.uk/> [accessed 18 July 2019], was replaced by the new Jisc Library Hub Discover service, with faster response times, new features and an increasing range of contributors.

Researchers and educators use Jisc Library Hub Discover 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. **For further information, please visit:**

Jisc Library Hub Discover [online]. Further information is available at <https://discover.libraryhub.jisc.ac.uk/about/> [accessed 2 January 2020]

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Also, please note:

Top 20 Urban Planning Websites

- This year, marking the sixth year of The Global Grid's annual ranking, six new websites joined the ranks of their Top 20 Urban Planning Website selection. Last year's top-ranking website are, however, holding tight to their positions with only two new additions in the top ten. This year's list emphasizes the central role of urban policy.

Essbai S (2017) 'Top 20 Urban Planning Websites of 2017' [online], The Global Grid – urbanist news. local views. Available at <https://theglobalgrid.org/the-global-grid-top-20-urban-planning-websites-2017/> [accessed 2 January 2020]

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UCEM e-Library portrait

UCEM e-Library portrait @ www.ucem.ac.uk/supported-online-learning/elibrary/ [accessed 2 January 2020]



As of **January 2020**, a search of 'construction' on the internet produces over **3,900,000,000 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.



Top searching tips from Lucy the Librarian –

NOTE: For the above link to work you must ensure that you are in the **VLE e-Library**, have clicked the **Library login** and have your **Athens** account open. Once you are in Athens open, select **Emerald Insight** from the **Resources** listed.

People have access to so much information these days and particularly through the Internet. **“Demonstrating to both UCEM staff and students what their e-Library can do for them remains a key priority.”** Lucy Roper, UCEM Information Governance Manager

Some key facts and figures about the UCEM e-Library

Access to -

- over 2000 Full-Text Journal Titles (accessed through EBSCO Business Source premier, Emerald Insight, Taylor&Francis Online, IngentaConnect, as well as specialist Law Journals via Westlaw)
- over 1000 useful web links to e-Resources
- online searchable databases from 15 key industry specific & educational sources (including the RICS - Royal Institution of Chartered Surveyors online published material via ISURV and their Building Cost Information Service (BCIS), Building Services Research and Information Association (BSRIA), and industry specific journal, *Estates Gazette*).
- A discovery service to allow students and staff to search all the UCEM Library services and e-Resources in one place
- Athens gateway – access and identity management system to allow single-sign on to Library subscription serviced
- a direct link to UCEM’s entire library of study material catalogue
- UCEM Published Research and back issues of this copy of *Knowledge Foundations* and formerly eBulletin
- Access to UCEM Research and Occasional Paper series, Reports and Publications, and Archive
- Reading lists, bibliographies and literature reviews incl. Abstracts and indexes of external databases
- Further Information, Advice and Guidance notes, discussion documents and fact sheets

UCEM e-Library enquiry service –

UCEM are constantly striving to improve the online resources available to support learning and development. Therefore, having listened and responded to requests, the e-Library has now set up an enquiry service so that library queries can be put direct to an information specialist. So why not email today at library@ucem.ac.uk ?

Or access the e-library online. Available @ www.ucem.ac.uk [accessed 2 January 2020]

and click on ‘**Access your VLE**’ & visit the ‘**e-Library**’

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Student careers 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 [add us to your favourites?](#)
4. UCEM offers a CV review service to help you produce this all-important marketing tool.
5. This service is free, confidential and recognised by MATRIX, the industry Quality Standard. It can challenge the way you see yourself and maybe your perception of Career Advice too.

On offer

- Advice by email, phone or Skype; Career planning tools; Interview practice; Labour Marketing Information; Job search skills; Country specific advice for international students; and
- Specialist resources on the VLE

Popular topics include, but aren't limited to those below

- Industry information such as potential career paths and labour market data
- CV reviews, job applications and interview advice
- Job search strategies
- Career Planning including professional accreditation
- Finding Work Experience

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Related Links:

GoConstruct.org website

The **Go Construct** website showcases the many career opportunities available in construction and the built environment. The site helps to meet the future skills needs of the industry and to recruit a workforce that is diverse and ready for the challenge of the future.

It aims to

- **Inspire** people to consider a career in construction,
- **Discover** what a career in construction is really like, and
- **Experience** the industry for themselves.

For further information please visit

Go Construct, **A career in construction gives you the chance to be part of something BIG!** [online]. Available at: www.goconstruct.org/ [accessed 2 January 2020]

Or follow them on their Social Media sites. Access via the website **goconstruct.org**



[@GoConstructUK](#) or



TARGETjobs

All TARGETjob graduate careers guides and directories are available for you to view online and download for future reference incl. **Property 2019** and **Engineering 2019**.

TARGETjobs (2018) 'Graduate careers guides and directories from TARGETjobs' [online]. Available at: <https://targetjobs.co.uk/careers-products> [accessed 2 January 2020]

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House Building Careers

Part of Home Builders Federation (HBF), here you will be able to learn about the home building industry and how it benefits you, your community and the country as a whole [online]. Further information available at: <http://housebuildingcareers.org.uk/> [accessed 2 January 2020]

RICS Careers

- The mission of Future Talent at RICS is to inspire and attract an inclusive, talented profession. As with UCEM it is vital that we attract the right talent, from a diverse range of backgrounds, provide and equip them with the right skills to ensure our profession is fit for the future.

RICS Future Talent runs initiatives and outreach programmes to students within schools, colleges and universities, representing and leading groups on careers, and support employers of all sizes and sectors to recruit the next generation of professionals.

- **Make a difference** – see projects you've worked on and know you achieved that
- **Good salary** – the average salary (see publication date) for a chartered surveyor is £60,000
- **Variety** – surveying is not an ordinary 9-5 desk job
- **Travel the world** – RICS is recognised globally so you can have the opportunity to travel the world
- **Accessible** – with many ways to qualify as a surveyor, it's a professional career that is open to everyone.
- **Career opportunities** – surveying skills are in demand, so you can develop and grow the career you want.

With the RICS Careers designated webpages you can find the following information incl.

- **Explore surveying?**
- **How to become a surveyor,**

and further advice for employers, those current studying, RICS Matrics, apprenticeships and a video entitled – 'The work that shapes our world | RICS'

Royal Institution of Chartered Surveyors (RICS), 2018, 'RICS Careers' [RICS website > Home > Careers] RICS [online]. Available at: www.rics.org/uk/careers/ [accessed 2 January 2020]

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Building a better you

- Property Elite's sole aim is to build better property professionals – supporting your career every step of the way, whether you are completing a RICS accredited degree course, your RICS APC or simply seeking engaging CPD.

Property Elite provides training and Continuing Professional Developments (CPD) services for property professionals, including students, APC candidates and corporate clients.

Their **Hot Topic Highlight blog** posts will arm you with the information on the hottest topics – ready to tackle an important client meeting or begin revising for your RICS APC final assessment.

The latest blog focuses on

Hot Topic Highlight – [RICS Guidance Note, Valuation of Development Property](#)

Lucy Top Tip – If you are planning to sit your RICS APC/AssocRICS this Autumn, 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 looking at the new RICS Guidance Note, Valuation of Development Property (1st Edition, October 2019). This replaces the former Valuation Information Paper (VIP) 12, Valuation of Development Land. It should however be read in conjunction with RICS Valuation – Global Standards 2017 (Red Book), which incorporates IVS 410 – Development Property.

What is the aim of the Guidance Note? The aim is to provide guidance to valuers on how to value development properties, which are often complex, sensitive and incorporate optionality.

What is development property defines as? IVS 410 defines development property as ‘an interest where redevelopment is required to achieve the highest and best use, or where improvements are either being contemplated or are in progress at the valuation date’.

This includes:

- ‘The construction of buildings’,
- Previously undeveloped land, which is being provided with infrastructure,
- The redevelopment of previously developed land,
- The improvement or alteration of existing buildings or structures,
- Land allocated for development in a statutory plan, and
- Land allocated for a higher value use or higher density in a statutory plan’.

Further information is provided via the link below.

Essential reading for AssocRICS and RICS APC candidates. Audio version of this blog via the source link provided below.

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.

Source: Lemen-Hogarth J (2019) *Hot Topic Highlight – RICS Guidance Note, Valuation and Development* [online], Property Elite LLP. Available at:

<https://www.property-elite.co.uk/post/hot-topic-highlight-rics-guidance-note-valuation-of-development-property> [accessed 2 January 2020]

Note: Jen Lemen-Hogarth is an Associate Tutor - UCEM and Partner - Property Elite

You can also download this blog [in audio format](#) and listen whilst on the move. When you're done, you can request further information and a free CPD certificate.

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UCEM's Sustainability Hub:

The Routledge Sustainability Hub

The Routledge Sustainability Hub is an innovative Knowledge Centre for the global sustainability community, this Hub offers a wide range of resources for everyone – whether you are a teacher, a student, a professional or a citizen of the earth curious to discover more about the many facets of sustainability.

Further information available at: www.routledgetextbooks.com/textbooks/sustainability [accessed 2 January 2020]

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FreeBook: Pathways to Sustainable Agriculture

Produced in Partnership with the ESRC STEPS Center

This FreeBook highlights some of the major findings that have emerged over the last decade of the STEPS Centre's research on sustainable agriculture.

It draws on four books which address three themes central to understanding how pathways emerge in agriculture, and how sustainability, is or indeed is not, generated. The three themes are: framing (how we

understand agriculture and its roles in development), practice (how agriculture and agricultural research is carried out, and by whom) and governance (how agriculture is regulated and controlled).

Access [FreeBook: Pathways to Sustainable Agriculture](#)

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Sustainable Building Training Guide Launched

Produced by the Green Construction Board and the Construction Leadership Council this new guide has been endorsed by leading construction businesses and industry federations, training bodies, and professional institutions.

This accessible guide explains the principles of sustainable building in terms that are useful for the development of content for standards, qualifications, apprenticeships and training courses. Its purpose is to help the training sector to embed sustainability within all mainstream learning, including the national curriculum, apprenticeships, degrees and professional qualifications. It is therefore a key reference for anyone involved in construction training.

The publication, use, and uptake of this guide is a key recommendation of the “Each Home Counts” Reviews. Its adoption and use by the training sector will help us to address the so-called ‘performance gap’ and will ultimately aid the transition to an energy efficient and low carbon-built environment.

You can download a copy of the publication via the hyperlink provided below.

CIC - Construction Industry Council (2017), *Sustainable Building Training Guide Launched* [online]. Available at: <http://cic.org.uk/news/article.php?s=2017-02-28-sustainable-building-training-guide-launched> [accessed 2 January 2020]

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New Olympic headquarters completed in Switzerland

- Work on the 25,000 sq. m headquarters for the International Olympic Committee (IOC) has been completed in Lausanne, Switzerland.

Bringing 500 IOC employees together in the same building for the first time, the project, designed by Danish architect 3XN, is inspired by the values of “movement”, “flexibility” and “sustainability”.

Clad in an undulating façade, the structure will appear different from all angles, and the interior is designed with few structural elements to create an open and adaptable working environment.

A circular “Unity Staircase” links all floors inside the building, the design of which references Baron Pierre de Coubertin’s Olympic Rings.

The headquarters are located within Louise-Bourget Park adjacent to an 18th century castle, Château de Vidy, on the shores of Lake Geneva.

The building has a green roof, solar panels, low flow taps, and rainwater capture.

Jan Ammundsen, 3 XN’s head of design, said: “In recognition of the symbolism of the Olympic Games and needs of the organisation, we designed the IOC Headquarters around three key elements: movement, flexibility and sustainability.”

Christophe De Kepper, IOC executive board member, said: “The IOC Session was presented today (see publication date) with an architectural project that will allow the IOC to benefit from a modern, functional and sustainable working environment.

“At a time when we are speaking about the future of the Olympic Movement with Olympic Agenda 2020, Olympic Unity House is a bridge between the roots of the IOC in Lausanne and our vision for the future.”

For further information and to gain access of the Heritage Alliance briefing paper, please visit:

Source: GCR staff (2019) ‘New Olympic headquarters completed in Switzerland’, *GCR* [online], 20 June.

Available at: www.globalconstructionreview.com/news/new-olympic-headquarters-completed-switzerland/ [accessed 2 January 2020]

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Building Research Establishment (BRE) -

Sustainability: [Practical guidance and support for delivering genuine sustainability benefits](#)

- Greater sustainability and its many benefits can be achieved for all buildings, homes, organisations and communities.

Internationally recognised as the developers of sustainability standards codes and methodologies (such as BREEAM) for buildings, homes, communities and infrastructure, the BRE expert team offers a comprehensive range of sustainability services. BRE can also help (further information provided via the below mentioned source) to reduce the environmental impact of construction processes, materials and operations, and provide leading edge information and advice on all aspects of the sustainability of:

- Sustainable construction of buildings
- Communities
- Infrastructure
- Sustainable organisations
- Materials, products and services
- Waste management
- Energy management services
- Training and publications

This and further information are available at

Source: **BRE / Sustainability** [online] and available @ <https://bregroup.com/expertise/sustainability/> [accessed 2 January 2020]

Other sources of information and related Links:

The National Trust (2019) 'Phasing out single use plastics at our places', The National Trust [online]. Available at: www.nationaltrust.org.uk/news/phasing-out-single-use-plastics-at-our-places?campid=Print_Central_Inspire_Summer2018_plastics [accessed 2 January 2020]

BBC (2018) – Plastics Watch Resources [online]. Available at: www.bbc.co.uk/programmes/articles/453T5Gp3FP6kmMrJBRS09d/resources [accessed 2 January 2020]

QSAND and the Sustainable Development Goals



Source: **Designing Buildings.co.uk Wiki**, (2019) 'Forgetting the big picture when considering sustainability' [online], last edited 31 March 2019.

Further information is available at: www.designingbuildings.co.uk/wiki/QSAND_and_the_Sustainable_Development_Goals [accessed 2 January 2020]

- 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 QSANDs overarching support for the Sustainable Development Goals (SDGs).

In addition to its focus on sustainable cities and communities (SDG 11), QSAND supports the goals by promoting clean and renewable energy solutions (SDG 7), responsible consumption (SDG 12), and clean water and sanitation (SDG 6) alongside many other areas.

Consideration of the natural environment alongside the needs of people globally is important in measuring success in the pursuit of the SDGs. It can offer a form of protective barrier against disasters. QSAND does this by providing a framework which can be used to support protection of local ecology, balancing this against the maintenance of livelihoods and economic prosperity. Often, protecting natural resources can also support livelihoods, further reducing a communities vulnerability to disasters.

Whilst QSAND is designed as a tool to be used in response to a specific disaster to support the recovery process, its sustainability scope is wider than this. By considering the medium to longer-term impacts of decisions made in the early days of disaster recovery, it helps provide a framework that can help avoid, limit or mitigate further harm to the natural environment that can occur during reconstruction.

QSAND is proud to support the aims laid out in the Sustainable Development Goals, and support efforts to contribute to the global movement towards a sustainable, resilient, and prosperous future.

Source: **Designing Buildings.co.uk Wiki**, (2019) 'QSAND and the Sustainable Development Goals' [online], last edited 31 March 2019. Further information is available at:

[www.designingbuildings.co.uk/wiki/QSAND and the Sustainable Development Goals](http://www.designingbuildings.co.uk/wiki/QSAND_and_the_Sustainable_Development_Goals) [accessed 25 November 2019]

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: [accessed 25 November 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 14 Dec 2018. Further information is available at:

[www.designingbuildings.co.uk/wiki/Forgetting the big picture when considering sustainability](http://www.designingbuildings.co.uk/wiki/Forgetting_the_big_picture_when_considering_sustainability) [accessed 2 January 2020]

Sustainability in building design and construction

Source: **Designing Buildings.co.uk Wiki**, (2019) 'Sustainability in building design and construction' [online], last edited 23 May 2019. Further information is available at:

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** (2019) [online]. Further information is available at: https://www.designingbuildings.co.uk/wiki/BREEAM_Wiki [accessed 2 January 2020]

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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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: www.bifm.org.uk/bifm/knowledge/sustainabilityinfm [accessed 2 January 2020]

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UCEM's commitment to the sustainability agenda –

beesustainable BUILT • ENVIRONMENT • EDUCATION

UCEM's strategic ambition is to develop and implement genuine sustainability credentials as a socially responsible organisation by;

- Ensuring our students leave their study with UCEM conversant in best practice in nurturing a sustainable built environment
- Making sustainability a central focus for UCEM at organisational, departmental and individual levels, and
- Establishing UCEM as a leader in the sustainability agenda through actively influencing industry and conducting research in our sector

UCEM, February 2015, *thirty-seven twenty-seven, Principal's Update*, Issue 13, Reading: UCEM

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Useful web-links

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A

American Society of Civil Engineers (ASCE) Civil Engineering database www.asce.org/ [accessed 2 January 2020] provides free access to over 80 thousand abstracts taken from ASCE publications since 1973.

Association of Researchers in Construction Management (ARCOM) brings together all those interested in construction management research. It aims to further the advancement of knowledge in all aspects of management in construction by support education, dissemination and research [online]. Further information available at: www.arcom.ac.uk/index.php [accessed 2 January 2020]

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 2 January 2020]. **ARCOM Newsletters** - contains the latest news from the industry [online]. Available at: www.arcom.ac.uk/newsletters.php [accessed 2 January 2020]

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BAILLI Case Law Search (British and Irish Legal Information Institute) [online]. Further information available at: www.bailii.org/form/search_cases.html [accessed 2 January 2020]

BBC Education [online]. Further information available at: www.bbc.co.uk/news/education/ [accessed 2 January 2020]

BBC Search [online]. Further information available at: www.bbc.co.uk/search/ [accessed 2 January 2020]

BCSC (British Council of Shopping Centres) was the professional body and authoritative voice for retail-led regeneration and for the management of and investment in shopping places [online]. **NOTE:** BCSC has changed and is now **REVO – Retail. Property. Community. See REVO below.** Further information available at: www.revocommunity.org/ [accessed 2 January 2020]

BCSC Research + Education Document listing – Now REVO [online] and available at: www.revocommunity.org/documents/list [accessed 2 January 2020]

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.cdcb.ac.uk/AboutDBB/FAQs [accessed 2 January 2020]. Please refer to question 9 – What is the Digital Built Britain Programme? specifically.

BIMForum – The BIMForum's mission is to facilitate and accelerate the adoption of building information modelling (BIM) in the AEC (Architecture, Engineering and Construction) industry. Further information is available via the BIMForum Website [online] and @ <http://bimforum.org> [accessed 2 January 2020]

BOMA International (Building Owners and Managers Association International) – a federation of 91 BOMA U.S. associations and 17 international affiliates. Founded in 1907, BOMA’s mission is to advance a vibrant commercial real estate industry through advocacy, influence and knowledge. BOMA Research and Resources [online] and available at: www.boma.org/research/Pages/find-a-resource.aspx [accessed 2 January 2020]

British Property Federation (BPF) – The British Property Federation is a membership organisation devoted to representing the interests of all those involved in real estate ownership and investment [online]. Further information available at: www.bpf.org.uk/en/index.php [accessed 2 January 2020]

BRE (Building Research Establishment) is an independent and impartial, research-based consultancy, testing and training organisation, offering expertise in every aspect of the built environment and associated industries [online]. Further information available at: <https://bregroup.com/about-us/> [accessed 2 January 2020]

BRE A-Z of BRE Services (from Accreditation to Zero Carbon) [online]. Further information is available at: www.bre.co.uk/atoz.jsp [accessed 2 January 2020]

BRE Case Studies [online]. Further information is available at: www.bre.co.uk/podpage.jsp?id=1744 [accessed 2 January 2020]

BSRIA (Building Services Research and Information Association) is a test, instrumentation, research and consultancy organisation, providing specialist services in construction and building services. Available at: www.bsria.co.uk/ [accessed 2 January 2020]

Builder and engineer [online]. Available at: www.builderandengineer.co.uk/ [accessed 6 November 2017] – Free access to articles from Builder and Engineer magazine and locate information on current projects as well as company profiles, products and industry news.

Building Conservation. com [online] – Information resources for conservation, restoration and repairs. Available at: www.buildingconservation.com/ and Articles directory by subject @ www.buildingconservation.com/articles/articles.htm [accessed 2 January 2020]

Building Design Directory – provides construction and environmental products / services / information for Architects, Engineers and Facility Managers [online]. Available at: www.buildingdesign.co.uk [accessed 2 January 2020]

Building talks [online]. Available at: www.buildingtalk.com [accessed 2 January 2020] *Building Talks* is an email newsletter for Architects, Civil Engineers and Building Services Contractors.

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CABER (Centre for Architecture and Built Environment Research) seeks to develop innovative approaches, procedures, technologies and techniques that support the design, management, reconfiguration, maintenance and operation of buildings, their fabric and the environments they create. **Note:** CABER incorporates the previous Centre for Construction and Property Research (CPRC). CABER [online] and available @ www1.uwe.ac.uk/et/research/caber.aspx [accessed 2 January 2020]

CBA (Council for British Archaeology) is an independent charity bringing together members, supporters and partners to give archaeology a voice and safeguard it for future generations [online]. Available at: <http://new.archaeologyuk.org/> [accessed 2 January 2020]

CBI (Confederation of British Industry) is the UK’s premier business lobbying organisation, providing a voice for employers at a national and international level [online]. Available at: www.cbi.org.uk/ [accessed 2 January 2020]

CBI Construction Section [online]. Available at: www.cbi.org.uk/business-issues/construction/ [accessed 2 January 2020]

CBRE (Commercial Real Estate Services) is the world’s largest real estate services provider, with a preeminent leadership position in virtually all key business centers globally [online]. Available at: www.cbre.com/EN/Pages/Home.aspx [accessed 2 January 2020]

CDBB (Centre for Digital Built Britain) is a partnership between the Department of Business, Energy & Industrial Strategy and the University of Cambridge to deliver a smart digital economy for infrastructure and construction for the future and transform the UK construction industry's approach to the way we plan, build, maintain and use our social and economic infrastructure. CDBB [online]. Available at: www.cdbb.cam.ac.uk/AboutDBB [accessed 2 January 2020]

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 2 January 2020] the Centre provides discipline based support to enhance the quality of learning and teaching in the UK Higher Education CEBE, **Built Environment community**.

CEM (College of Estate Management) – See **UCEM (University College of Estate Management)**

CIC (Construction Industry Council) – The representative forum for the professional bodies, research organisations and specialist business association in the construction industry [online] and available at: <http://cic.org.uk/> [accessed 2 January 2020]

CIOB (Chartered Institute of Building) The Chartered Institute of Building is the international voice of the building professional, representing an unequalled body of knowledge concerning the management of the total building process [online]. Available at: www.ciob.org.uk/ [accessed 2 January 2020]

CIOB Insight Incl. Library and Information Services [online]. Available at: www.ciob.org.uk/library [accessed 2 January 2020]

CIOB – Construction Manager [online]. Available at: www.constructionmanagermagazine.com/ [accessed 2 January 2020]

CIOB – Global Construction Review [online]. Available at: www.globalconstructionreview.com/ [accessed 2 January 2020]

CIOB – Policy and Public Affairs portal [online]. Available at: <http://policy.ciob.org/> [accessed 2 January 2020]

CIRIA – The Construction Industry Research and Information Association and CIRIA Resources [online]. Further information is available at: www.ciria.org/default.aspx [accessed 2 January 2020]

CITB – Construction Industry Training Board is the training board for the construction industry and partner in Construction Skills, the Sector Skills Council [online]. Available at: www.citb.co.uk/ [accessed 2 January 2020]

Cities / buildings images database [online]. Available at: www.washington.edu/ark2 [accessed 2 January 2020] is a collection of images of buildings and cities from around the world aimed at students, researchers and educators.

CLH - Community-Led Housing Toolkit: a resource for local authority and housing professionals' [online]. Available at: <https://clhtoolkit.org/> [accessed 2 January 2020]. 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 2 January 2020]

Constructing Excellence (delivered with bre) is a platform for industry improvement to deliver excellence through clients, industry and users through collaborative working. Resources include publications, tools and newsletter [online]. Available at: <http://constructingexcellence.org.uk/> [accessed 2 January 2020]

Construction Enquirer – The best-read news website in construction [online]. Available at www.constructionenquirer.com [accessed 2 January 2020]

The **Construction Index** [online] provides a wide range of information services for the UK construction industry, incl. search engine of construction companies, daily construction news, market data, email newspaper letter, and Case Law analysis and legal commentary. Further information is available at: www.theconstructionindex.co.uk/ [accessed 2 January 2020].

Construction News [online]. Available at www.cnplus.co.uk [accessed 2 January 2020]

Construction Products Association (CPA) represents the UK's manufacturers and distributors of construction products and materials. Further information available at Construction Products Association [online]. Available at: www.constructionproducts.org.uk/ [accessed 2 January 2020]

Contractors World magazines (incl. **Contractors World International** and **Contractors World UK & Ireland**) are the leading international digital publications. Delivering site reports, equipment reviews and comments of interest on the construction, mining, quarrying and related industries [online]. Available at: <http://cwmags.com/> [accessed 2 January 2020].

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: <https://copac.jisc.ac.uk/> [accessed 2 January 2020]. **Note:** From August 2019 Copac was replaced by the new [Jisc Library Hub Discover service](#).

COTAC (Conference on Training in Architectural Conservation) was formed in 1959 to improve the standard of education of everyone involved in building conservation, including craftsmen, professionals and home owners [online]. Available at: <http://ihbconline.co.uk/cotac2/> [accessed 2 January 2020]

COTAC Digital Bibliography [online]. Available at: www.cotac.org.uk/digital_bib/ [accessed 2 January 2020]

CPIC (Construction Project Information Committee), responsible for providing best practice guidance on the content, form and preparation of construction production information, and making sure this best practice is disseminated throughout the UK construction industry [online]. Available at: www.cpic.org.uk/ [accessed 2 January 2020]

CPRC (Construction and Property Research Centre), University of the West of England (UWE) – the CPRC's research activity is focused around the three inter-related stages of the built environment life-cycle, namely design, construction and maintenance [online]. Available at: www1.uwe.ac.uk/et/research/cprc.aspx [accessed 2 January 2020]. **Note:** CABER (Centre for Architecture and Built Environment Research) mentioned above incorporates the CPRC.

CPRC, UWE Research Repository – Providing immediate world-wide open access to all UWE's research output [online]. Available at: <http://eprints.uwe.ac.uk> [accessed 2 January 2020]

CPRE (Campaign to Protect Rural England) – CPRE campaign for a beautiful and living countryside. They work to protect, promote and enhance our towns and countryside to make them better places to live, work and enjoy, and to ensure the countryside is protected for now and future generations [online] Available at: www.cpre.org.uk/ [accessed 2 January 2020].

CPRE Resources provides the latest news articles, policy guidance notes, published reports and research surrounding the following - Countryside, Farming and food, **Housing and planning**, Energy and Waste, and Transport [online]. Available at: www.cpre.org.uk/resources [accessed 2 January 2020]

CPWR (The Center for Construction Research and Training) – CPWR is dedicated to reducing occupational injuries, illnesses and fatalities in the construction industry through research, training and service programs. CPWR [online] and available at: www.cpwr.com/ [accessed 2 January 2020]

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The **Design Council** champions great design that improves lives and makes things better [online] and available @ www.designcouncil.org.uk/ [accessed 2 January 2020]. See also **Inclusive Design Hub for the Built Environment** (a project of The Design Council) listed below.

Designing Buildings Wiki [online] and available at: www.designingbuildings.co.uk/wiki/Home [accessed 2 January 2020] - an industry-wide, cross-discipline forum for finding and sharing information.

Designing Buildings Wiki – Student resources [online] and available at: www.designingbuildings.co.uk/wiki/Student_resources [accessed 2 January 2020] – *Designing Buildings Wiki* has a wide range of resources aimed at students of the built environment, as shown here.

DOAB (Directory of Open Access Books) is a service which harvests details of academic and mainly peer-reviewed books published on open access [online]. Available at: www.doabooks.org/doab [accessed 2 January 2020]

DOAJ (Directory of Open Access Journals) covers all open access scientific and scholarly journals, using a quality control system to guarantee the content [online]. Available at: <https://doaj.org/> [accessed 2 January 2020]

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The Economics Network provides publications, events and other resources to support university teachers of economics throughout the UK and worldwide [online]. Available at: www.economicsnetwork.ac.uk [accessed 2 January 2020]

Engineering and Physical Sciences Research Council (EPSRC) is the main UK government agency for funding research and training in engineering and the physical sciences, investing more than £800 million a year in a broad range of subjects – from mathematics to materials science, and from information technology to structural engineering [online] and available at: www.epsrc.ac.uk/ [accessed 2 January 2020]

English Heritage cares for over 400 historic buildings, monuments and sites – from world-famous prehistoric sites to grand medieval castles, from Roman forts on the edges of the empire to a Cold War bunker. Further information is available at: www.english-heritage.org.uk/ [accessed 2 January 2020].

Note: English Heritage has now separated into two organisations. If you are looking for information on listing, planning, grants or heritage research and advice, please visit **Historic England** (listed below).

Estates Gazette The UK's largest commercial property news team [online]. Available at: www.egi.co.uk/Property/Home.aspx [accessed 2 January 2020] 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 2 January 2020]. **ERES Digital Library** [online] and available at <http://eres.scix.net/cgi-bin/works/Home> [accessed 2 January 2020]

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Great Buildings [Online]. Available at: www.greatbuildings.com [accessed 2 January 2020] provides a database of buildings around the world and across all historic periods. You can search the database by building names, place or architect name. It provides access to 3D models, photographic images and architectural drawings.

Glenigan [online]. Available at: www.glenigan.com/ [accessed 2 January 2020] provides UK construction project sales leads, market analysis, forecasting, and company intelligence.

The Green Construction Board [online]. Further information is available at: www.greenconstructionboard.org/ [accessed 2 January 2020] – The role of the GCB is to provide leadership and action to enable the whole value chain (clients, contractors, product manufacturers and suppliers) to become more environmentally, sustainable, more productive and better placed to exploit the growing global market.

The Guardian, Housing network – providing insight, advice and best practice from your community [online]. Available at: www.guardian.co.uk/housing-network/ [accessed 2 January 2020]

The Guardian, Higher Education network [online]. Available at: www.guardian.co.uk/higher-education-network [accessed 2 January 2020]

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Health and Safety Executive (HSE) – HSE is the national independent watchdog for work-related health, safety and illness. HSE are an independent regulator and act in the public interest to reduce work-related death and serious injury across Great Britain’s workplaces [online]. Available at: www.hse.gov.uk/index.htm [accessed 2 January 2020] and **HSE – Health & Safety in the construction industry** [online] is available @ www.hse.gov.uk/construction/ [accessed 2 January 2020]

HELM (Historic Environment Local Management) - provides accessible information, training and guidance to decision makers in local authorities, regional agencies and national organisations whose actions affect the historic environment. **Note:** You can now find all HELM web content on the **Historic England** website [online] and available @ www.historicengland.org.uk/advice/planning/local-heritage/helm-redirect [accessed 2 January 2020].

Heritage Alliance - The largest coalition of heritage interests in England, the Heritage Alliance is the umbrella body for national and major regional Heritage NGOs [online]. Available at: www.theheritagealliance.org.uk/ [accessed 2 January 2020]

Heritage Alliance’s Heritage Update E-Bulletin [online]. Available at: www.theheritagealliance.org.uk/heritage-update [accessed 2 January 2020]

Heritage Update: the online edition of the fortnightly Heritage Alliance’s Heritage Update e-bulletin [online] and available at: www.theheritagealliance.org.uk/update/ [accessed 2 January 2020]

Heritage Help - Created by the Joint Committee of the National Amenity Societies, Heritage Help offers information and advice on matters related to the management and protection of local historic environments [online]. Available at: <http://heritagehelp.org.uk> [accessed 2 January 2020]

Higher Education Academy (HEA) – The Higher Education Academy champions excellent learning and teaching in higher education. The HEA are a national and independent organisation, funded by the four UK HE funding bodies and by subscriptions and grants [online]. Available at: www.heacademy.ac.uk/ [accessed 2 January 2020] and **HEA Knowledge HUB** [online] and available at: www.heacademy.ac.uk/hub [accessed 2 January 2020]

Higher Education Empirical Research (HEER) Database comprises summaries of the latest published research on a range of topics related to higher education [online]. Available at: <http://heer.qaa.ac.uk/> [accessed 2 January 2020]

Historic England is the public body that looks after England’s historic environment. Historic England champion historic places, helping people understand, value and care for them. Further information is available at: www.historicengland.org.uk/ [accessed 2 January 2020]

Home Builders Federation (HBF) – HBF represents and serves its members in a range of ways including; Ensuring senior politicians and government officials are aware of housing issues and the challenges faced by our members; and working with Government officials to ensure housing policies are introduced that facilitate housing supply, in a way that is workable for the industry [online]. Available at: www.hbf.co.uk/ [accessed 2 January 2020]

House Building Careers (part of HBF) – Here you will be able to learn about the home building industry and how it benefits you, your community and the country as a whole [online]. Further information available at: <http://housebuildingcareers.org.uk/> [accessed 2 January 2020]

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ICDE (International Council for Open and Distance Education) – ICDE is the leading global membership organisation for enhancing the quality of open, distance, flexible and online education, including e-Learning [online]. Available at: www.icde.org/ [accessed 2 January 2020]

ICE (Institution of Civil Engineers) ICE is a registered charity that strives to promote and progress civil engineering [online]. Available at: www.ice.org.uk/ [accessed 2 January 2020]

ICE Virtual Library [online]. Available at: www.icevirtuallibrary.com [accessed 2 January 2020] is a free database that indexes all ICE journals.

IHBC (Institute of Historic Building Conservation) is the principal professional body for building conservation practitioners and historic environment specialists working in England, Northern Ireland, Scotland and Wales, with connections to the Republic of Ireland [online]. Available at: www.ihbc.org.uk [accessed 2 January 2020]

Inclusive Design Hub for the Built Environment is a collection of the latest guidance and best practice on inclusive design in the built environment (and a project of **The Design Council**) [online]. Available at: www.designcouncil.org.uk/projects/inclusive-design-hub-built-environment [accessed 2 January 2020]

INFABODE connects its community of users with industry information from the Real Estate sector on one customisable online platform. Infabode reduces the amount of time people spend trying to access key information from the Real Estate industry. **INFABODE** [online]. Available at: www.infabode.com/dashboard [accessed 2 January 2020]

ITcon – The Journal of Information Technology in Construction is a peer-reviewed scholarly journal on the use of IT in architecture, civil engineering and facility management [online] and available at: www.itcon.org/ [accessed 2 January 2020]

IWFM (Institute of Workplace and Facilities Management) – Formerly the British Institute of Facilities Management, BIFM is now the IWFM. The workplace has been incorporated into their new brand so that the status of the professional can help take careers further, regardless of specialism. IWFM [online]. Further information is available at: www.iwfm.org.uk/ [accessed 2 January 2020]

IWFM Insights – discover leading research and resources for the workplace and facilities management profession. IWFM [online]. Available at: www.iwfm.org.uk/insight [accessed 2 January 2020]

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 November 2019] and www.facilitatemagazine.com/news/ [accessed 2 January 2020]

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JOLT (Journal of Online Learning and Teaching) - The **MERLOT Journal of Online Learning and Teaching** is a peer-reviewed, open-access, online publication that aims to promote scholarship in the use of the Internet and web-based multimedia resource in higher education [online]. Available at MERLOT Journal of Online Teaching and Learning (JOLT): <http://jolt.merlot.org> and <http://jolt.merlot.org/currentissue.html> [accessed 2 January 2020]. **Note:** See MERLOT below.

JournalTOCs is the largest, free collection of scholarly journal Title of Contents (TOCs) [online]. Available at: www.journaltoocs.ac.uk/index.php [accessed 2 January 2020]

JEBE (Journal for Education in the Built Environment) is the leading UK publication for pedagogy in the built environment disciplines [online]. Further information is available within the **Higher Education Academy (HEA) Knowledge HUB** [online] and available at: www.heacademy.ac.uk/hub [accessed 2 January 2020]

JEBE JISC Content – This website provides an introduction to digital collections designed for education. They are mainly aimed at university students, researchers and librarians but many of the online archives are open to anyone @ www.jisc.ac.uk/website/legacy/jisc-content [accessed 2 January 2020]. **Note:** The JISC Content portal closed on 1 July 2016, however links are provided to Archives Hub and Digital Resources from this link.

JISC Library Hub Discover – Library Hub Discover replaces COPAC* and SUNCAT, offering increased coverage of university libraries along with new facilities and improved response times. The new service lays the foundations for ongoing development for search facilities alongside continuing growth in library coverage @ <https://discover.libraryhub.jisc.ac.uk/> [accessed 2 January 2020].

JORUM – After 13 years delivering and sharing content across the higher education, further education and skills sectors the Jorum service and website was retired on 30 September 2016. However, many of the open education resources (OER) that were available in Jorum, access to their **Archive** can be

accessed via the JISC website [online]. Available at: www.jisc.ac.uk/website/legacy/jorum [accessed 2 January 2020] where you can also gain access to JISC's full digital resources offer.

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LandAid – the property industry charity working to end youth homelessness by bringing the property industry together to provide safe, suitable and affordable accommodation. LandAid [online]. Available at: www.landaid.org/ [accessed 2 January 2020]

Leeds Beckett University's - Built Environment [CeBE] – CeBE has researched ways to reduce domestic energy use for nearly 20 years [online]. Available at: www.leedsbeckett.ac.uk/research/research-areas/research-areas/built-environment-cebe/ [accessed 2 January 2020]. **CeBE's Virtual Site Gallery** contains construction details, case studies, site photographs, and plant details @ www.leedsbeckett.ac.uk/teaching/vsite/gallery/ [accessed 2 January 2020]

Lexology – A comprehensive source of international legal updates, analysis and insights. Lexology publishes 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 2 January 2020]

Local Government Association (LGA) - The LGA is the national voice of local government. They work with councils to support, promote and improve local government [online]. Available at: www.local.gov.uk/ [accessed 2 January 2020]

LGA Knowledge Hub - Knowledge Hub is the public sector's professional social network which helps people in local government connect and share online in a secure environment [online]. Available at: <https://khub.net/> [accessed 2 January 2020]

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MERLOT – Multimedia Educational Resource for Learning and Online Teaching. The MERLOT project began in 1997, when the California State University Center for Distributed Learning (CSU-CDL) at www.cdli.edu [accessed 2 January 2020] developed and provided free access to MERLOT at www.merlot.org [accessed 2 January 2020]. MERLOT is a curated collection of free and open online teaching, learning, and faculty development services contributed and used by an international education community.

MERLOT Journal of Online Learning and Teaching (JOLT and mentioned above) is a peer-reviewed, open-access, online publication that aims to promote scholarship in the use of the Internet and web-based multimedia resource in higher education [online]. Available at MERLOT Journal of Online Teaching and Learning (JOLT): <http://jolt.merlot.org> and <http://jolt.merlot.org/currentissue.html> [accessed 2 January 2020]. Note: The MERLOT community is joining with the Online Learning Consortium (OLC - formerly Sloan C and mentioned below) to expand scholarly research in the field of online education, with a merger of the Journal Online Learning (formerly JALN) and the Journal of Online Learning and Teaching (JOLT).

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National BIM (Building Information Modelling) Library, the construction industry's free-to-use resource of the NBS (trading name of RIBA Enterprises Ltd) standard BIM content [online]. Available at: www.thenbs.com/services/our-tools/nbs-national-bim-library [accessed 2 January 2020], NBS homepage is available at: www.thenbs.com/ [accessed 2 January 2020], and NBS Knowledge [online] is available at: www.thenbs.com/knowledge [accessed 2 January 2020]

National Building Specification (NBS) > Home > Publication Index [online]. Available at: www.thenbs.com/PublicationIndex/Publisher/Index?FirstLet=B [accessed 2 January 2020]

National Skills Academy for Construction (NSAFC) – The NSAFC is an industry-led framework supporting clients and contractors to identify, develop and realise employment and skills solutions across

construction projects [online]. Available at: www.citb.co.uk/national-skills-academy-for-construction/ [accessed 2 January 2020]. It is facilitated by the CITB – Construction Industry Training Board (see above).

The National Trust protect historic houses, gardens, mills, coastline, forests, woods, fens, beaches, farmland, moorland, islands, archaeological remains, nature reserves, villages and pubs [online]. Available at: www.nationaltrust.org.uk/ [accessed 2 January 2020]

National Trust's Land use & planning [online]. Available at: www.nationaltrust.org.uk/what-we-do/big-issues/land-use-and-planning/ [accessed 2 January 2020]

NCE [online]. Available at: www.nce.co.uk [accessed 2 January 2020] is the official website of the **New Civil Engineer**, a weekly magazine published for the ICE.

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OAJSE (Open Access Journals Search Engine) – An Open Access e-Journal portal. Search for articles in Open Access journals from around the World (excl. India) [online]. Available at: www.oajse.com/index.html [accessed 2 January 2020]. Specialist subject areas including-Business and Management; Construction; Economics; Education; Law; Library and Information Science; and Social Sciences to name but a few. **Please note:** OAJSE has recently been upgraded.

OECD (Organisation for Economic Cooperation and Development) iLibrary is the online library of the OECD, featuring its books, papers and statistics and is the gateway to OECD's analysis and data. It replaced SourceOECD in July 2010 [online]. Available at: www.oecd-ilibrary.org [accessed 2 January 2020]

OER Hub - Open Education Resources, Research Hub – OER Hub gathers research on the impact of open education resources (OER) on learning and teaching practices [online]. Further information is available at: <http://oerhub.net/> [accessed 2 January 2020]

Online Learning Consortium (OLC) – The OLC is devoted to advanced quality online learning by providing professional development, instruction, best practice publications and guidance to educators, online learning professionals and organisations around the world. Further information is available at Online Learning Consortium [online] and available at: <http://onlinelearningconsortium.org/> [accessed 2 January 2020]

OLC's Online Learning – the official journal of the Online Learning Consortium [online]. Available at: <http://onlinelearningconsortium.org/read/> [accessed 2 January 2020]

Open Praxis – Open Praxis (published by the International Council for Open and Distance Education – ICDE) is a peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education [online]. Available at: <http://openpraxis.org/index.php/OpenPraxis/index> [accessed 2 January 2020]

Open University (OU) UK [online] and available at: www.open.ac.uk/ [accessed 2 January 2020]

Open University (OU) UK, Institute of Education Technology [online] and available at: www.open.ac.uk/iet/main/ [accessed 2 January 2020]

ORBEE (Open Resources in Built Environment Education) contains a collection of free, high quality teaching and learning materials for online learning or use in the classroom [online].

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www.Parliament.co.uk, **Research briefings** produced by the House of Commons Library, the House of Lords Library and the Parliamentary Office of Science and Technology (POST). Parliament, Parliamentary business, Publications and records, Research briefings [online]. Further information is available at: <http://researchbriefings.parliament.uk/> [accessed 2 January 2020]

The Planning Portal - the UK Government's online planning and building regulations resource for England and Wales [online]. Available at: www.planningportal.co.uk/ [accessed 2 January 2020]

Planning Advisory Service (PAS) – The Planning Advisory Service provide consultancy and peer support, training sessions and online resources to help local authorities understand and respond to planning reform [online]. Available at: www.local.gov.uk/pas [accessed 2 January 2020]. **Note:** PAS have a new website

Planning Officers Society (POS) – The Planning Officers Society is the voice for public sector planning practitioners, pursuing good and effective planning practice within local government [online]. Available at: www.planningofficers.org.uk/ [accessed 2 January 2020]

The Prince's Foundation was created by the merging of The Prince's Foundation for Building Community, The Prince's Regeneration Trust, The Great Steward of Scotland's Dumfries House Trust and The Prince's School of Traditional Arts in 2018. This combined force enables the charity to achieve HRH's goal of creating harmonious communities, through three core tiers [online]. Available at: <https://princes-foundation.org> [accessed 2 January 2020]

PPN (Property People's Network) is open to all interested in land and property and provides a forum to network through a range of social activities and visits [online]. Available at: www.ppnonline.co.uk/ [accessed 2 January 2020]

Property Week – Commercial property news [online]. Available at: www.propertyweek.com/ [accessed 2 January 2020]

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Regeneration and Renewal – Placemaking Resources incorporating *Regeneration & Renewal* magazine blog [online]. Available at: <http://regen.net/home/> and www.placemakingresource.com/ [accessed 2 January 2020]

Revo – Retail. Property. Community (formerly BCSC (British Council of Shopping Centres) is the professional body and authoritative voice for retail property and placemaking-led regeneration and for the management of and investment in shopping places [online]. Further information available at: www.revocommunity.org/ [accessed 2 January 2020]

RICS (Royal Institution of Chartered Surveyors) is an independent body committed to setting and upholding the highest standards of excellence and integrity in land, property and construction. See also Explore RICS [online]. Available at: www.rics.org/uk/ [accessed 2 January 2020]

RICS Glossary [online]. Further information is available at: www.ricsfirms.com/glossary/ [accessed 2 January 2020]

RICS > News & Insights [online]. Available at: www.rics.org/uk/news-insight/ [accessed 2 January 2020]

RICS > Upholding Professional Standards [online]. Available at: www.rics.org/uk/upholding-professional-standards/ [accessed 2 January 2020]

RICS Library services [online]. Available at: www.rics.org/uk/footer/library-services/ [accessed 2 January 2020]

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/cgiisirsi.exe/0/0/0/60/69/X> [accessed 2 January 2020]

Royal Town and Planning Institute (RTPI) – RTPI is the UK's leading planning body for spatial, sustainable and inclusive planning and is the largest planning institute in Europe with over 23,000 members. In 2014 they celebrate their Centenary [online]. Available at: www.rtpi.org.uk/ [accessed 2 January 2020]

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Savills Research – Savills Research, Insight & Opinion provides advice and analysis to clients across the UK, with specialists in commercial, residential and rural property research [online] and available at: www.savills.co.uk/insight-and-opinion/research.aspx [accessed 2 January 2020]

Specification Online – the free to use news and online products resource for specifiers working across the architectural and building sector [online] and available at: <http://specificationonline.co.uk> [accessed 2 January 2020]

Supply Chain Sustainability School – The Supply Chain Sustainability School represents a common approach to developing sustainability competence in the supply chain. It is a free resource available to any supplier and is part of their continued commitment to lead the industry into a brighter, more sustainable future. Supply Chain Sustainability School [online]. Further information is available at: www.supplychainschool.co.uk/uk/default-home-main.aspx [accessed 2 January 2020]

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The Telegraph – Property and construction industry: The latest news, analysis and share prices on Britain's biggest construction and property companies [online]. Available at: www.telegraph.co.uk/property-and-construction-industry/ [accessed 2 January 2020]

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UCEM (University College of Estate Management) is the leading provider of supported distance learning for real estate and construction professionals [online]. Available at: www.ucem.ac.uk/ [accessed 2 January 2020]

University of the West of England (UWE), Centre for Architecture and Built Environment Research (CABER) – The CABER seeks to develop innovative approaches, procedures, technologies and techniques that support the design, management, reconfiguration, maintenance and operation of buildings, their fabric and the environments they create. **Note:** CABER incorporates the previous Centre for Construction and Property Research (CPRC) CABER [online]. Available at: www1.uwe.ac.uk/et/research/cprc.aspx [accessed 2 January 2020]

UWE Educational Resources for the Built Environment (ERBE) – The ERBE produces unique and highly respected educational resources for academic and professional use and incorporates the **Video Project** and the **Construction Website**. Further information can be found on the ERBE website [online] and available at: www1.uwe.ac.uk/et/cp/erbe.aspx [accessed 2 January 2020]

UWE, ERBE, The Video Project produces films on building construction, history and conservation. Established in 1992 and has produced over 30 films which are widely used nationally and internationally at all levels of academia, CPD and in professional practice [online]. Further information is available at: www1.uwe.ac.uk/et/cp/erbe/constructionfilms.aspx [accessed 2 January 2020]

UWE, ERBE, The Construction Website is an interactive encyclopaedia covering construction, conservation and building history. It is expanded and revised on an annual basis [online]. Further information is available at: www1.uwe.ac.uk/et/cp/erbe/constructionweb.aspx [accessed 2 January 2020]

UWE, Research Repository (CPRC) – Providing immediate world-wide open access to all UWE's research output [online]. Available at: <http://eprints.uwe.ac.uk> [accessed 2 January 2020].

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Virtual Training Suite - This website provides a set of free Internet tutorials to help students develop their Internet research skills for a particular University course [online]. Available at: www.vtstutorials.co.uk/ [accessed 2 January 2020]

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ZETOC: The monitoring and search service for global research publications, providing access to over 29,000 journals and more than 52 million article citations and conference papers through the British Library's electronic table of contents [online]. Available at: <http://zetoc.mimas.ac.uk/> [accessed 2 January 2020]

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University College of Estate Management (UCEM), Horizons, 60 Queen's Road, RG1 4BS, UK – UK (Free): 0800 019 9697, International: +44 (0)118 921 4696, Email: [Click Here](#)



Lucy Roper (BSc (Hons), MBA, DipHE, ACILIP, AFHEA)
Information Governance Manager

+44 (0)118 921 4661 | www.ucem.ac.uk/centenary

University College of Estate Management
Horizons, 60 Queen's Road, Reading, RG1 4BS

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