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# Knowledge Foundations

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## What's in this month's issue

- **Latest UCEM News** incl. First bespoke CPD training modules for service Veterans launched by UCEM and BuildForce.
- **Things you need to know this week** – Resi partner named for South Shields Transformation. South Tyneside Council appoints development partner to deliver 365 homes as part of mixed-use partnership.
- **Latest Research** from JRF, RICS, CBRE, and more.

Happy reading!

## Issue 6 - June 2020

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

**"The mission of librarians is to improve society through facilitating knowledge creation in their communities"**

(R. David Lankes)

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.

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

### Supported Online Learning

The readership of *Knowledge Foundations* has expanded (to include Alumni) and is now promoted further afield, with the latest version appearing on the UCEM Website.

[Visit Supported Online Learning](#)

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## UCEM News

### **First bespoke CPD training modules for service Veterans launched by UCEM and BuildForce**

- The first in a series of bespoke construction training modules for Veterans have been launched by UCEM and BuildForce.

UCEM's 'Introduction to the Construction Industry' learning module, which provides a greater understanding of the industry, and a mini module outlining a career road map in construction site management are now live on its Online Academy.

Three further career road map outlines for construction project management, quantity surveying (commercial management) and building surveying in construction will follow next.

The modules have been designed in response to research carried out by UCEM which found that Veterans would like to learn about roles within the industry, how a construction site works, salaries and career progressions, and self-employment.

This work has been carried out as part of the Construction Industry Training Board – CITB's Pathways into Construction programme with BuildForce, focusing on the Veteran cohort.

**[Access further information and the article 'First bespoke CPD training modules for service Veterans launched by UCEM and BuildForce' in full.](#)**

### **Recognise outstanding UCEM staff through the Teaching Excellence Awards 2020!**

Has one of our team at UCEM made your learning experience that bit more enjoyable? Have you noticed a colleague who has gone above and beyond in supporting our students?

If someone or some members of staff spring to mind to one of the questions above, then now is your chance to recognise them!

Nominations are open to UCEM students and staff to highlight individuals' outstanding contributions through the Teaching Excellence Awards (TEAs) 2020. As with last year's awards, there are five categories available to vote in:

1. Innovation in Teaching and Learning;
2. Recognition of Excellence;
3. Outstanding Contribution to Feedback;
4. Outstanding Contribution to Academic Support; and
5. Outstanding Contribution to Pastoral Support.

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Nominations close on Thursday, 28 May, 2020, with **the winners to be announced on Wednesday, 10 June, 2020.**

[Access further information and the article 'Recognise outstanding UCEM staff through the Teaching Excellence Awards 2020!' in full.](#)

## **COVID-19: University College of Estate Management (UCEM) response to COVID-19 [18<sup>th</sup> March 2020]**

As a responsible employer and educator, UCEM's commitment is to protect the health of all students, staff, clients and suppliers by adhering strictly to advice offered by Public Health England, The World Health Organisation, Office for Students, local and central government, whilst remaining committed to maintaining our usual excellent standard of student experience.

Please find below the steps we've taken to adhere to current and ongoing advice. As the situation is ever-changing, we fully review the guidelines and our actions daily and will quickly adapt if necessary (**Note** the publication date of this article).

- All staff who are able to work from home are doing so. We have been anticipating this situation and had prepared for it full. We have an advanced IT infrastructure in place to enable remote working, so we continue to operate as usual.
- As an online pedagogical institution, we are experts at online teaching and our deliver model will continue as normal
- The small number of staff remaining in Horizons head Office have been allocated seating at above the recommended distance away from each other.
- We are operating a policy of no external meetings and no visitors to Horizons Head Office
- All managers and department heads have been briefed with respect to our self-confinement policy and our treatment of any staff member displaying symptoms that may be linked to COVID-19
- All staff are continually reminded of the importance of following the 20-second guideline for hand-washing.

If you have any further questions, please contact:

- Student enquiries – Student Central on our VLE
- Employer enquiries – [businessdevelopment@ucem.ac.uk](mailto:businessdevelopment@ucem.ac.uk)
- Other enquiries – [reception@ucem.ac.uk](mailto:reception@ucem.ac.uk) , Tel: +44(0)118 467 2100

Our sincere thoughts are with those affected by COVID-19 and its impact around the world.

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Further information and the latest developments can be found via the [UCEM Website](#), & **don't forget** that the [UCEM e-Library](#) can be accessed 24/7 (via the VLE-Virtual Learning Environment) with a wealth of valuable resources to help 😊.

### **14<sup>th</sup> edition of Parry's Tables published to mark UCEM's centenary year.**

[Access and read further information about the new edition of Parry's valuation and Investment Tables.](#)

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

**Other UCEM News** – UCEM completes second NUS Responsible Futures audit; UCEM signs joint pledge to tackle climate change; Innovative research project ideas sought to receive funding, and more.

[Keep abreast of the latest UCEM News and events](#) – and read our blog to keep updated on Building Environment industry insights, student case studies, and thoughts from UCEM Principal: Ashley Wheaton

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## **Other News**

### **Things you need to know this week: Resi partner named for South Shields regeneration**

- South Tyneside Council appoints development partner to deliver 365 homes as part of mixed use transformation.

South Tyneside Council has appointed housebuilder Keepmoat, working with Cussins Homes, as development partner to deliver 365 homes for a regeneration scheme in South Shields. The homes are one element of a masterplan to transform disused docks and brownfield land at Holborn into a mixed-use riverside quarter, which also includes office space, a hotel and a cultural offer. The scheme has secured £4.2 million of grant fund from government agency Home England's Local Authority Accelerated Construction Fund.

**Other developments include** – Birmingham City Council has agreed a deal with Homes England to release a site as part of plans to develop 1,000 homes close to the High Speed 2 Curzon Street Station; Housebuilder Countryside Properties has been chosen as Home England's preferred development partner for sites in Kent and Hertfordshire, which have the potential to deliver nearly 900 homes in all; The government is

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committing more than £6 million to help Business Improvement Districts (BIDs) in England, in response to the coronavirus outbreak; Cardiff Council has bought a former gasworks sites in the city, with a view to delivery 500 homes there; Green initiative Northern Roots has named University of Salford as its strategic partner on a project aiming to deliver the UK's largest urban farm and eco-park in north Manchester.

(Please note you will need to register to access these stories in full, although registration is free).

[Read the full 'Need to Know: Resi partner named for South Shields regeneration' article](#)

### **Case Study: Creating a pedestrian link between city buildings**

- A new walkway in Melbourne, Australia, improves access and provides a more engaging and flexible form of urban infrastructure, as the author of this article finds.

The functional pathways, steps and streets of urban infrastructure generally provide the connections between buildings in towns and cities. But a project in a suburb of Melbourne, Australia, designed by Make Architects, creates a route that is intended to be more accessible, engaging and flexible, while trying together a fragmented site that combines retail and leisure uses.

The newly created Chadstone Link runs between the Chadstone shopping centre, which is the largest in the southern hemisphere, and a new five star hotel. This pedestrian route includes travellators and stairs and is enclosed in a curved glued laminated timber, or glulam, structure with a tensile, semi-translucent PTFE fabric stretched over it.

**Challenges** – The shopping centre and hotel were separated by another piece of urban infrastructure.

**Solution** – The walkway, with its complex diagrid structure of Italian Larch timber, spans 110 metres and extends up to 15 metres. Its form was inspired by the arched glass roof of the shopping centre, but its design and materials allowed for a rapid building.

The PTFE fabric cover protects customers, guests and visitors, but is open at the sides to allow cross ventilation, ruling out the need for air conditioning, which is a key factor given the local climate. Artificial lighting is minimal, being used primarily to illuminate the feature at night.

The project includes landscaping, stairs and travellators, all of which are located to create areas where the public can relax, as well as spaces for a restaurant and pop-up uses. The walkway

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is a key addition to a retail, leisure and office district that is used by more than 24 million a year. The solution has met a need in Melbourne, but could be applied elsewhere.

Client: Vicinity Centre

Design architect: Make Architects

Delivery architect: Cera Stribley Architects

[Read the full 'Creating a pedestrian link between city buildings' case study](#)

(Please note you will need to register to access this and other case studies in full, although registration is free).

### **Analysis: Innovating to keep planning moving**

- How local authorities across Essex are responding to the call to use technology to keep discussions and consultations going.

Restrictions introduced as a result of coronavirus have seen the development industry closing construction sites and furloughing staff, including land and planning teams. It is becoming clear that the lockdown will last for weeks, leaving much of the industry on hold (see publication date).

The Ministry of Housing, Communities and Local Government (MHCLG) has instructed councils to use delegated powers and digital innovation to keep the planning system going.

Although not in the original Coronavirus Act, the government included a late amendment to lift certain restrictions on councils. The Regulations for Local Government removed the requirement for a quorate meeting to have a certain number of council members physically present at the meeting. This has opened the way for councils to resurrect all business including planning, and begin to respond to Steve Aurtermain's (the outgoing MHCLG Chief Planner) to "explore every opportunity to use technology (i.e. Virtual Meetings) to ensure that discussions and consultations can go ahead.

Essex County Council (ECC) in its strategic planning role is looking at how its own planning and other committee meetings can continue to take place. It is liaising with planning officers across Essex to understand the steps that district and borough councils are taking to ensure that capacity within departments is maintained so that, when developers start to come forward with sites, there are as few delays as possible.

[Read the 'Analysis: Innovating to keep planning moving' in full.](#)

(Please note you will need to register to access this analysis in full, although registration is free).

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## Coronavirus – latest developments [May 2020]

### Coronavirus information: What should I do now?

- Prime Minister Boris Johnson has announced new lockdown rules to help tackle the coronavirus emergency in England.

Scotland, Wales and Northern Ireland have their own powers over the lockdown and while some advice is common across the board, they have not lifted measures to the same extent.

### How can I help to slow the spread of the virus?

- Stay home wherever possible
- Work from home if you can
- If you can't work from home, go back to work as long as safety measures are in place
- Avoid public transport if possible
- You can take unlimited exercise outside
- You can meet one person outside your household, as long as you stay 2m apart
- Enjoy parks and public spaces without exercising
- But always keep your 2m distance in public
- Police will be able to fine you if you don't follow the rules
- Wear face covering in enclosed spaces, like shops or public transport
- If unwell, isolate yourself and your family
- Keep in touch with one another
- Wash hands for about 20 seconds with soap and hot water or use a sanitiser gel
- Use a tissue for coughs and sneezes
- If you don't have a tissue use your sleeve
- Avoid touching your eyes, nose and mouth with unwashed hands
- If you have a high temperature or a new, continuous cough, use the NHS 111 online coronavirus service to seek advice
- If your symptoms are mild, you'll be advised to stay indoors for seven days
- Anyone you live with should stay at home for 14 days, in case symptoms develop
- You may be eligible for a test

### More about coronavirus:

- A SIMPLE GUIDE: [What are the symptoms?](#)
- NEW RESTRICTIONS: [What are they?](#)
- LOOK-UP TOOL: [Check cases in your area](#)
- MAPS AND CHARTS: [Visual guide to the outbreak](#)

[Access the BBC Health News article entitled, 'Coronavirus: What should I do now?' in full.](#)



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[Access GOV.UK \(2020\) 'Coronavirus \(COVID-19\): what you need to know'](#) [online]. Available at: [www.GOV.UK](http://www.GOV.UK)

### **Will COVID-19 accelerate construction's digital transformation?**

- With many industry professionals forced to work remotely, is now the perfect time for construction to get up to speed with all things BIM and digital? *Construction Manager* magazine finds out if the coronavirus will change the way we work forever.

David Philp – Global BIM/MIC consultancy director, AECOM says, **“It’s an opportunity to rethink how we can use technology and innovate.” (Philp 2020)**

The coronavirus pandemic is forcing us to strive for more innovative and rapid solutions. From increased home working needs, maximising performance of our healthcare estates and ultimately how we can recover from the looming economic challenges, we need to usher in new ways of working.

This crisis will be an opportunity for us to rethink construction priorities, how we can better use technology and innovate in the use of joined-up data to support immediate societal needs and the creation of a more resilient built environment.

Mark Boyle – Global design direct, Robert Bird says, **‘Our digital processes lend themselves to remote working.’ (Boyle 2020)**, and

Gary Fannon – Technology director, Turner and Townsend says, **‘Early digital adopters will be reaping the rewards.’ (Fannon 2020)**

T&T’s technology team have all been set up to work from home for some time and the early adopters will reap the rewards from the coronavirus lockdown. Design teams are able to continue working – creating a fully designed digital model that can be constructed to an excellent quality standard when work is able to begin on site.

There are also security questions about home working – we need to educate people and show them how to make home routers more secure. But overall, the enforced lockdown could show the industry how we can use digital technology to be more efficient and productive.

Andrew Gamblen – Digital manager, Willmott Dixon says, **‘People will become more comfortable collaborating remotely.’ (Gamblen 2020)**

The effect of Covid-19 and social distancing is going to have a long-lasting effect on both the construction sector and the UK as a whole. There has been a huge increase in the use of technology and software that allows individuals and teams to

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to communicate and collaborate remotely.

While this technology has been around for a while, and because we are in a position where we have to use it to keep working, people are starting to become a lot more comfortable with it and this is building up simple routines that will have a lasting effect.

Richard Saxon – CBE Chairman of JCT, client adviser at Deplo BIM Strategies says, **“Wartime scenarios” will push the digital agenda.’ (Saxon 2020)**

The Covid-19 crisis is looking very like a war scenario. Organisations are sending out messages saying they will play their part through staff working from home. It’s Keep Calm and Carry on again.

Technology has always developed rapidly in wartime. The Second World War saw the birth of computing radar, jet aircraft and nuclear power. Now we have a design and construction industry in lockdown, starting to rely on tools which only a few firms have used to far.

- Now cloud-based teamwork applications allow staff to work from home or on the move with full access to their firm’s common data environment
- The pressure to roll out superfast broadband and 5G will be immense
- Social media apps allow for virtual co-working
- Online meetings are well supported now and soon we will use Virtual Site Visit technology as normal
- Site work will be aided by augmented reality headsets and BIM caves

By the time a vaccine is available (see publication date), a year or more of forced advance in technology use is likely to have passed.

Things will not go back to where they were before: productivity will have improved; flexible working will have become normal; whole life thinking will have advanced.

**[Read the \*Construction Manager\* article ‘Will Covid-19 accelerate construction’s digital transformation’, in full.](#)**

**Coronavirus to weigh on Q1 construction activity, despite recent pick-up**

International construction activity picked-up in the last quarter of 2019, according to the latest findings of RICS’ series of international Infrastructure and Construction Surveys. However, rising costs remain a drag on the sector, and the impact of the Coronavirus could hamper short-term output.

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**[Read the RICS article 'Coronavirus to weigh on Q1 construction activity, despite recent pick up', in full.](#)**

**Free content related to Coronavirus, the management of epidemics and the wider impact on society**

- Emerald Publishing, one of the UCEM e-Library subscription services, have brought together a number of research resources related to the Coronavirus group of viruses, and epidemics more broadly.

Emerald collated research and the management of epidemics and made it freely available to assist practitioners and researchers who are working to tackle the current situation and likely consequences. Whilst these materials do not only relate to the current clinical challenges of Novel Coronavirus, they may provide relevant context to how the world reacted to other previous Coronavirus outbreaks (notably SARS) and epidemics.



© Emerald Publishing 2020

**[Access Emerald Publishing's 'Coronavirus, the management of epidemics and the wider impact on society'](#)**

**Cambridge University: All lectures to be online-only until summer of 2021 [19 May 2020]**

- There will be no face-to-face lectures at the University of Cambridge over the course of the next academic year due to coronavirus, it has been announced.

However, lectures will be available to students online and "it may be possible to host smaller teaching groups in person" if they meet social distancing requirements, the university said.

University campuses have been closed this term (see publication date) by the Covid-19 outbreak. Cambridge will review the decision if advice on social distancing changes.

All teaching at the university was moved online in March 2020, while exams are being carried out virtually.

- **[Students 'must be warned if courses taught online'](#)**
- **[Online students would still face full tuition fees](#)**
- **[Students 'being ignored' over fee-refund claim](#)**

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It follows a similar move by the University of Manchester, which said its lectures would be online-only for the next term.

The university watchdog said students applying for university places in England must be told with “absolute clarity” how courses will be taught - before they make choices for the autumn.

Universities can charge full fees even if courses are taught online.

But Nicola Dandridge of the Office for Students warned against misleading promises about a “campus experience” if courses are to be taught online.

[Read the article, ‘Cambridge University: All lectures to be online-only until summer of 2021’ in full and related item via the BBC website](#)

### **New CIRIA guidance: *Methodology for quantifying the benefits of offsite construction* (C792)**

- CIRIA is pleased to announce the launch of new guidance, *Methodology for quantifying the benefits of offsite construction* (C792) in association with the Laing O’Rourke Centre for Construction Engineering and Technology, University of Cambridge.

This new guidance proposes a framework for comparing construction approaches, making it possible to keep consistent records across projects and identify all the possible benefits available. This guide also highlights the challenges that can be expected when assessing the performance of construction projects and developing robust benchmarks for comparison. It provides a framework for evaluating project performance that can be used by clients, construction management teams and designers to assess the value and benefits achieved on projects. The guidance is set to support decision making and facilitate wide industry collaboration across different sectors in the construction industry.

[Read further in formation and gain free access to the full published document, entitled, ‘Methodology for quantifying the benefits of offsite construction’](#)

### **Grenfell Inquiry – latest developments**

In light of COVID 19, the Grenfell Town Inquiry Panel decided that the Inquiry should have no further hearings for the time being.

To do so, even on the basis of limited attendance, would be to expose those whose presence is essential for that purpose, not to

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mention those whom are required to be called as witnesses, to an unacceptable risk of infection. It would also send the wrong signal to the world at large at a time when everyone is being urged to co-operate with measures designed to minimise the effect of the virus.

[Read the full message from the Grenfell Inquiry Chairman.](#)

[Read related item via the BBC website 'Grenfell Tower fire: Grenfell Inquiry: Aesthetics v safety v money'](#)

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

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



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[Read the full research report 'Concerns for Skills Shortages in the 21<sup>st</sup> Century.](#)

### **Women in construction: building a career in a challenging environment**

12 case studies of women working in the construction industry and their experiences.

[Access Women in construction: building a career in a challenging environment](#)

### **RICS Market surveys – leading indicators in the real estate industry**

Market surveys from the Royal Institution of Chartered Surveyors (RICS) include:

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- [UK Residential Market Survey](#) – used by government and key institutions, the Resi. Market Survey is a key indicator of conditions in UK residential sales and lettings.
- [RICS/RAU Rural Land Market Survey & Land Prices](#) – The RICS/RAU Rural Land Market Survey is the leading survey on demand, supply and prices in the farmland market.
- [UK Construction and Infrastructure Survey](#) – The leading sentiment indicator of the UK construction and infrastructure markets.
- [Hong Kong Residential Market Survey](#) – The Hong Kong Residential Market Survey is a leading sentiment indicator of conditions in the Hong Kong residential sales and lettings markets.
- [Global Commercial Property Monitor](#) – RICS global commercial property monitors are leading indicators of conditions in commercial property occupier and investor markets around the world.
- [UK Commercial Market Survey](#) – A leading indicator of developments in the UK commercial property occupier and investor markets.

## **RICS – The Future of Surveying**

- We know the challenges facing the built environment and the surveying profession – now it's time to act. We know the challenges facing the built environment and the surveying profession – now it's time to tackle them.

For over 150 years, RICS has led our profession through change, enabling our members to take advantage of the opportunities and manage the risks it presents. This change is now happening faster than ever, requiring us to think strategically about how we deploy our expertise and resource. To continue to provide leadership, we are constantly assessing our role as a standard setter, regulator, educator and global professional body – to deliver confidence to governments, markets and the public.

[RICS Futures Report 2020](#) is our action agenda to keep up in a changing world.

Access and download the Futures report to read RICS' full agenda for effecting change and responding to the biggest issues facing the natural and built environment, in full.

[Read the article, 'Future of Surveying' and gain access to the Futures report in full.](#)

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## National Statistics - UK House Price Index England: February 2020

- Monthly report (published in [April 2020](#)) showing the data for the average house prices for England.

The Headline Statistics for February shows:

- The average price of a property in England was **£246,341**
- The annual price change of a property in England was **0.8%**
- The monthly price change of a property in England was - **0.6%**
- The index figure for England (January 2015 = 100) was **121.4**.

Estimates for the most recent months are provisional and are likely to be updated as more data is incorporated into the index.

[Read the GOV.UK, National Statistics release 'UK House Price Index England for February 2020' in full.](#)

## Tackling mental health and wellbeing within the construction industry

Wellbeing strategy model:



Source: BSRIA (2019). 'Wellbeing consideration to property managers', Designing Buildings.co.uk Wiki [online], last edited 20 Aug.

### Understanding Mental Health in the Built Environment

Access the CIOB's latest report *Understanding Mental Health in the Built Environment*, including the results from the CIOB survey of over 2,000 professionals.

[Access CIOB online Policy Portal](#)

[Access CIOB surveys the sector to gather data on mental health and stress](#)

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### **How can buildings have positive impact on wellbeing?**

BSRIA's Henry Lawson discusses the importance of designing buildings that promote 'Wellbeing.' The theory sound compelling but in practice, creating such building is complex.

[Access and read 'How can buildings have positive impact on wellbeing' in full.](#)

### **Coronavirus and your wellbeing**

You might be worried about coronavirus (also known as COVID-19) and how it could affect your life. This information is here to help. [Access MIND's article, entitled 'Coronavirus and your wellbeing'.](#)

### **Sustainable outcomes for buildings**

The Royal Institute of British Architects (RIBA) has published guidance on targeting, designing and evaluating sustainable outcomes for buildings, defining concise measurable set of eight sustainable outcomes that correspond to key UN Sustainable Development Goals and can be delivered on building projects of all scales.

[Access the RIBA Sustainable Outcomes Guide](#)

### **National Trust planning principles**

**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, coastline, 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.

[Access the National Trust website](#)

### **National Trust (NT) – “Our planning principles”**

The National Trust principles are used to guide them in their decision-making on the way land is developed and managed and include:

**Seeking to influence** – The NT seek to influence the Planning system at local, regional and national levels,



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**Supporting spatial planning** – The NT support spatial planning which takes a holistic approach to its environment and its resources,

**Sensible management** – The NT promotes the wise management of the natural environment and built and cultural heritage,

**Protecting our environment** – The NT will seek to protect wild and remote landscapes from built development or urbanisation.

**Using property management plans** – In managing its land through management plans, the NT will support and help to achieve objectives,

**Objecting to proposals, where appropriate** – When proposing development on their land to meet justified needs, the NT 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.

### [Read the National Trust Planning Principles](#)

## **The National Trusts' planning procedure**

The National Trust have developed the following criteria to ensure online 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.

**Case studies** are provided.

### [Read how the National Trust engage in planning: The NTs' role as a developer.](#)

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## Foster + Partners Projects

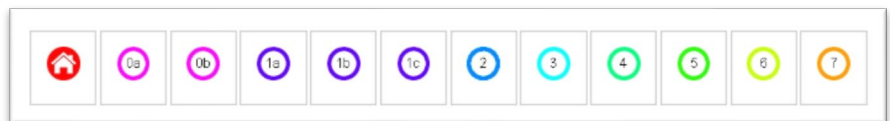
Foster + Partners Projects – one of the most innovative architecture and integrated design practices in the world. Over the past four decades the practice has pioneered a sustainable approach to architecture through a strikingly wide range of work, from urban masterplans, public infrastructure, airports, civil and cultural buildings, offices and workplaces to private houses and product design. By visiting their website, you can gain further information about their current and past work, upcoming projects and gain access to their-

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

### [Access Foster + Partners Projects](#)

## [Building Information Modelling \(BIM\)](#)

### [Step-by-step guide to using BIM on projects](#)



Source: PCSG (2019) '[Step-by-step guide to using BIM on projects](#)', Designing Buildings Wiki [online] Last edited 5 April.

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.

### [Access the Step-by-step guide to using BIM on projects](#)

## **BIM+ Projects – Case Study: Finland's Hospital Nova uses VR to involve staff in building design**

- Lead Contractor: The Central Finland Health care District
- BIM Tools: Tridify

Innovative processes have been in the co-design of Finland's new Hospital Nova using BIM models and involving more than 350 staff.

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**[Access BIM+ Projects Case Study, entitled, 'Finland's Hospital Nova uses VR to involve staff in building design' in full.](#)**

**Other BIM+ Projects [May 2020] include:**

- **['NHS Nightingale hospital, East London – how BIM played its part'](#)**, 5 May 2020.

The UK's newest and largest hospital (see publication date), based at the ExCel conference centre in London's Docklands, is designed to care for up to 4,000 people affected by Covid-19. The hospital is now in standby mode and will be used should cases in the London area rise again.

The conversion of the centre into a hospital – a process rolled out in other building around the country – has provided lessons more generally for how the industry might operate.

- **['Ten coronavirus questions for construction firms'](#)**, 28 April 2020. - The annual BIM and digital construction survey from *Construction Manager* magazine and *BIM+* is now into its sixth year.

- **['Case study: How the University of Birmingham digitised its estate'](#)**,

26 April 2020. - The University of Birmingham is digitising its entire estate to streamline capital project delivery and control vast amounts of asset information spanning the university's premises.

With a history extending over 100 years, the University of Birmingham is one of the UK's foremost and prestigious research-led institutions, delivering superb experiences for its staff, students and visitors. To continue delivering excellent services, the university is undergoing a £1bn development programme designed to create the Edgbaston campus in Birmingham and the university's international base in Dubai.

To improve decision-making and ensure its assets are fully reflective of its world-class status, the University of Birmingham has deployed a Common Data Environment (CDE) to enhance management and control of digital information and drive bottom-line improvements across every stage of a project's delivery and an asset's lifecycle.

- **['Case study: Derelict granary transformed into high-tech learning centre'](#)**,

15 April 2020. – The AgriSTEM Academy is South Staffordshire College's centre for training in the Advanced

Manufacturing and Engineering (AME) and Agricultural Engineering and Technology (AgriTech) sectors.

Following investment from the Stoke and Staffordshire Local Enterprise Partnership, development of the new academy included a complete renovation of historic granary building in addition to extensive new buildings in addition to extensive new buildings in addition to extensive new buildings providing 1,000m<sup>2</sup> of teaching and workshop space.

The academy features a range of facilities, including an advanced mechatronics lab, agricultural and construction vehicle simulators and renewable energies workshops.

**[Access the Chartered Institute of Building's \(CIOB\), BIM+ articles, projects, case studies and more, in full.](#)**

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## Built Environment Research

### **Latest from Savills *Impacts* – *The Future of Global Real Estate***

- Market Trends: Savills.com

In-depth research and analysis into property market trends, forecasts from specialist research teams, and market leading commentary to help you make the right property decisions

#### **The impact of Covid-19 on real estate, [May 2020](#)**

- From residential to retail offices to logistics, the long-term impact of Covid-19.

When Savills decided on the theme 'tipping points' for their 2020 *Impacts* programme at the end of 2019, various topics were discussed: climate change, demographics, technology and many more. What wasn't known at the time is that we were about to be faced with a pandemic. Covid-19 changed the way we work and live almost overnight and is likely to have a long-term impact on real estate.

As countries come out of their strict lockdowns but social distancing is still encouraged, the long-term impact of Covid-19 is yet to be seen. Many believe the world will emerge as a different place.

Here, Savills discuss the potential changes that may be seen across the different sectors. If you prefer to read a specific sector, then select the relevant sections title to go straight there and include: **[Office sector](#)**, **[Logistics sector](#)**, **[Retail sector](#)**, **[Hotels sector](#)**, **[Institutional residential sector](#)**, **[Senior housing and healthcare sectors](#)**, **[End-use residential sector](#)**, and **[Conclusion](#)**.

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[Read the full Savills Impact Publication 'The Impact of Covid-19 on real estate', May 2020'](#)

**Also:** [Savills \(2020\) 'Welcome to Impacts 2020' Impacts, May, Savills \[online\]. Available at Savills.com](#)

[Savills \(2020\) 'The impacts of the US-China trade war', Impacts, May, Savills \[online\]. Available at Savills.com](#)

**Latest Research from Joseph Rowntree Foundation (JRF) -**

- Inspiring Social Change: The Joseph Rowntree Foundation is an independent social change organisation working to solve UK poverty.

**UK Poverty 2019/20: Housing (Part of UK Poverty 2019/20)**

- It's not right that high private rents are pulling low-income households into poverty.

We all need somewhere to live, so it's unacceptable that many of us are shut out of having a secure, affordable home.

Increasing numbers of families with children are being caught in poverty's grip because of high private rents, as well as a raft of changes to social security policy, which have made housing less affordable.

[Read the article 'UK Poverty 2019/20 Housing' in full](#)

**UK Poverty Statistics from the Joseph Rowntree Foundation (JRF)**

- The latest UK poverty data, statistics and analysis from JRF's Analysis Unit. This online toolkit can be used to find information about poverty rates and related issues in the United Kingdom.

[Access the JRF UK Poverty Statistics toolkit.](#)

**Latest Research from 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 their website, the Institute offers a platform for thought leadership on a wide range of topics.

**All things being equal: The final report and recommendations of the Enfield Poverty and Inequality Commission (EPIC) January 2020**

- This report presents the findings and recommendations of the Enfield Poverty and Inequality Commission. The Commission, chaired by Baroness Tyler of Enfield, was made up of a mix

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local and national stakeholders and experts and was supported by the Smith Institute.

To undertake a review of poverty and inequality in Enfield and set out recommendations, the Commission:

- Initiated a 'call for evidence' to understand the views of local people and organisations. A feedback account was set up and promoted and comment boxes were placed in Enfield's four hub libraries for member of the public to submit evidence.
- Considered relevant existing datasets across a range of available evidence bases.
- Engaged directly with local people, service providers, community organisations and businesses, through public meetings, focus groups, and one-to-one interviews.
- Considered best practice that has successfully been taken forward in Enfield and elsewhere that may be replicated or adapted for wider use.
- Held four Commission meetings to hear evidence on the three threads with follow up discussions.
- A deliberative 'solutions workshop' at Green Hall Community Centre in Edmonton, inviting organisations and members of the public who had engaged with the Commission to come together and formulate recommendations.

The Commission's work focussed on three inter-connecting themes. These were:

- Living: To what extent does who we are and where we live affect our life chances and the services we can access?
- Learning: What barriers prevent local people from accessing opportunities through education and training?
- Earning: How can people on low incomes be better supported to secure long-term economic prosperity?

**[Read the full piece of research, 'All things being equal: The final report and recommendations of the Enfield Poverty and Inequality Commission'.](#)**

### **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

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what the impact of UC has been long after tenants have transitioned onto the new benefit.

[Read the full piece of research, 'Safe as Houses'.](#)

## Latest from the CBRE Research Blog: About Real Estate

The CBRE Research blog showcases a variety of informed viewpoints, spanning all major property sectors that include –

- **Offices** – Discover up to the minute and future looking trends in the Office sector for occupiers, landlords, investors and developers
- **Retail** in detail,
- **Industrial** – CBRE 'shed' light on all things industrial,
- **Residential** – CBRE's 'house' vide on all things residential, and
- **Investment** – addressing the challenges and opportunities facing commercial real estate property investors

[Access the CBRE website and About Real Estate Research Blog](#)

## Latest Research from RICS

- The Royal Institution of Chartered Surveyors (RICS) 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 profession and raise the profile of the industry. Note: Latest research published by RICS is covered earlier within *Knowledge Foundations* and under **Other News > RICS Market Surveys**.

As of **May 2020**, the latest include:

- Research: Will blockchain technology disrupt the real estate sector, 28 February 2020.

## CIOB Policy Portal latest

The quality of the built environment effects 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 (CIOB) 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.

As of **May 2020**, the Policy Portal latest include:

- *Understanding Mental Health in the Built Environment*

- CIOB response to the Building a Safer Future: Proposals for reform of the building safety regulator consultation
- Press Release: Combined Action Needed to Tackle Severe Skills Shortages

[Access the Chartered Institute of Building's Policy and Public Affairs website](#)

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## Property and Construction Statistics

### Latest Property and Construction Statistics from RICS:

#### RICS UK Economy and Property Market Chart Book, Q2 2020

- Rising unemployment likely to inhibit the economy's recovery

**Economic Outlook** – Initial optimism that an easing of lockdown measures would allow the UK economy to fully recover from a sharp, pandemic related, contraction appears to be fading. The Office for Budget Responsibility (OBR) estimates that a three-month lockdown may have led to 35% drop in real GDP in Q2 of this year (see publication date), and although they feel output could rise by a significant 27% in Q3 as restrictions ease, this would still leave a substantial shortfall.

**RICS surveys point to a sharp deterioration in market sentiment** – Feedback from the latest round of RICS Surveys unsurprisingly points to a sharp deterioration in sentiment. The results from the Q1 2020 UK Commercial Property show the crisis has accelerated the downturn in retail. CBRE data shows capital values posted monthly declines of 3% and 2% in March and April respectively at the all-sector level. Within this, although the retail sector suffered the steepest declines, values also slipped across the office and industrial sectors.

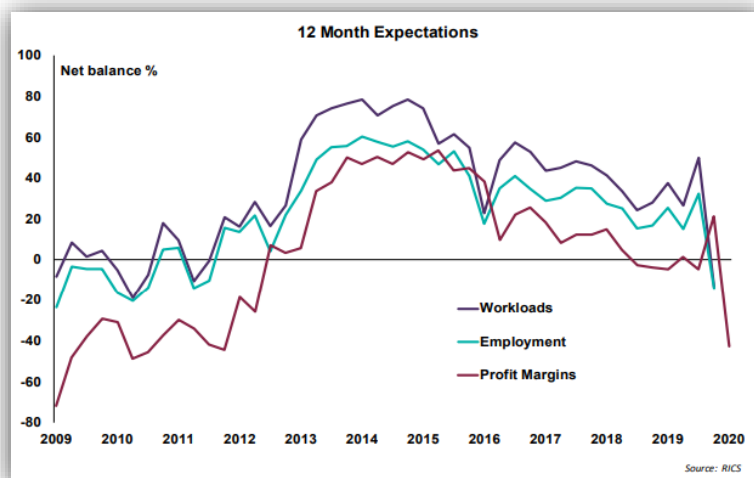
**Construction Sector** – ONS's preliminary estimates show that after rising in 2019, construction output declined by 3% on a year on year basis in the first quarter of 2020 owing to government restrictions imposed in March.

In the RICS Q1 2020 UK Construction Market survey, the headline workloads indicator slipped into negative territory for the first time in eight years with activity reported to have fallen in all market segments. Interestingly, we noted that sentiment turned progressively weaker towards the end of the survey period as stricter lockdown measures came into force.



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Profit margins are expected to contract:



Source: RICS Economics Research: *RICS UK Economy and Property Market Chart Book* (Q2 2020), London: RICS, p8 - Chart 7.

In addition, feedback points to a drop in market confidence with contributors anticipating workloads, employment and profit margins to decline in the coming year (see above chart). On the back of this, participants expressed the intention to decrease investment on fixed assets, equipment and software.

[Read the full piece of research 'RICS UK Property and Market Chart Book, Q2 2020](#)

### **RICS UK Residential Market Survey, April 2020**

- Near term expectations remain deeply negativity:

- Prices, rents and sales expected to fall sharply in the coming three months,
- 80% of contributions say that they have seen buyers or sellers pulling out of transactions,
- Majority believe prices will be lower when the market reopens.

The RICS April 2020 Residential Market Survey results suggest that the government's ongoing lockdown measures to prevent the spread of the coronavirus are continuing to stifle activity across the housing market. With estate agents still closed in April (see publication date), key activity indicators remain entrenched in negative territory. Furthermore, near term expectations suggest that the subdued set of conditions are likely to persist in the coming three months though sentiment over the twelve-month horizons is somewhat less negative.

[Read the latest RICS UK Residential Market Survey: April 2020 in full.](#)

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## Latest Statistics from the Office for National Statistics (ONS)

**Construction Industry highlights include – Construction output in Great Britain: [March 2020 and new orders January to March 2020](#)**

### What's covered in the latest bulletin?

- Construction output fell by 5.9% in the month-on-month all work series in March 2020; this was driven by a 6.2% decrease in new work and a 5.1% decrease in repair and maintenance; all of these decreases were the largest monthly falls on record since the monthly records began in January 2010.

- Anecdotal evidence received from across the industry suggested the coronavirus (COVID-19) pandemic was a significant factor to these large falls as construction activity ceased or reduced significantly in March 2020; the Office for National Statistics (ONS) has released a public statement on the coronavirus and the production of statistics.

- The decrease in new work (6.2%) in March 2020 was because of falls in all new work sectors; private new housing and private commercial were the largest contributors, falling by 6.4% & 7.1% respectively.

**[Read the full statistical bulletin, 'Construction output in Great Britain: March 2020 and new orders January to March 2020.'](#)**

## Latest Statistics from HSE – Health and Safety Executive

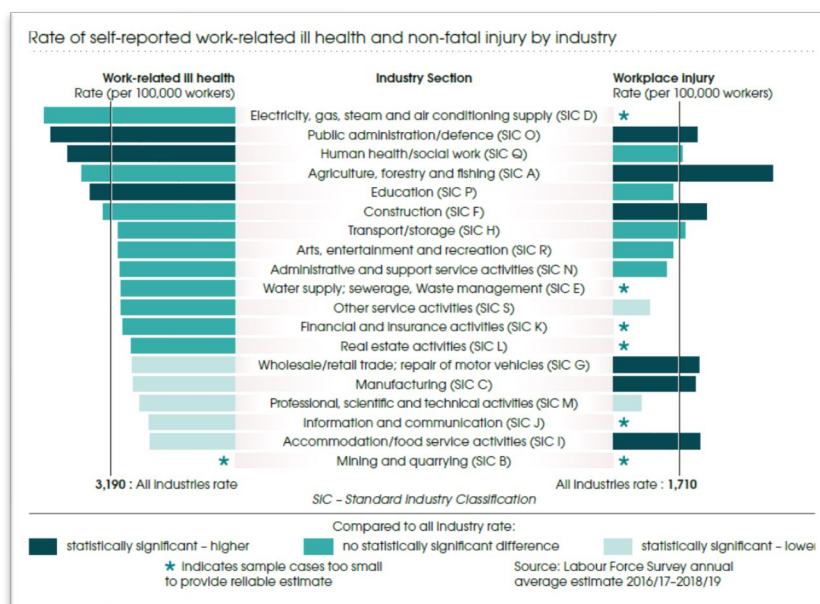
In 2018/19 an estimated 1.4 million workers were suffering from an illness they believed was caused or made worse by their work and 581,000 workers sustained a non-fatal injury at work. However, the risk of injury and work-related illness varies across industry, being more likely in some industries than others. The chart that follows shows how the overall **rates** of self-reported work-related illness and workplace injury vary between industry groups.

- The industries for which the rate is statistically significantly higher than the average is generally not the same for work-related ill health and workplace injury;

- While the chart shows the overall picture for each industry group (that includes 'construction'), this may be masking differences at more detailed levels (for example illness type or more detailed industry sub-groups).

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## For 'Rate of self-reported work-related health and non-fatal injury by industry':



© Crown copyright 2019

Source: HSE (2019) 'Health and safety at work: Summary statistics for Great Britain 2019', Bootle: HSE, p9.

More detailed statistics on selected industry groups (that include 'construction' can be found from [the suite of health and safety statistics tables](#).

[Access further information on health and safety statistics from HSE – Health and Safety Executive.](#)

## Latest Research and Resources from the House of Commons Library, the House of Lords Library and the Parliamentary Office of Science and Technology (POST)

**About the House of Commons Library** - The House of Commons Library is a research and information service based in the UK Parliament. Their impartial analysis, statistical research and resources help MPs and their staff scrutinise legislation, develop policy, and support constituents.

[Watch this quick video to find out how the House of Commons Library works](#)

Source: UK Parliament (2020) 'How the House of Commons Library works', YouTube [video]. Available at: youtube.com

As of **May 2020**, the House of Commons has recently updated their website that is now broken down into the following sections or subject areas:

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**Services** that include Research, Resources, Training & Events,

**Coronavirus** – read the latest Coronavirus (COVID-19) research and analysis from UK Parliament.

**Brexit** that covers Legislation, Negotiations, Policy, The EU, and Brexit explainer videos,

**Economy & Business** that include Business, Economy, Economic Updates, Transport, and Work & Incomes,

**Social Policy** that include Education, Families & Social Services, Health, Housing & Planning, and Welfare & Pensions,

**Parliament & Elections** that include Devolution, Elections, Government, Parliament, and Local Government,

**World Affairs** that is broken down into Africa, Americas, Asia Pacific, Defence, Europe, Institutions, and Middle East,

**Home Affairs** incl. Communities, Crime, Family & Civil Law, Justice, Immigration, Security, and Culture, Media & Sport,

**Energy** that include Energy, Environment, Climate Change, Sciences, and Technology

As of **May 2020**, the latest House of Commons, Research Briefings incl.

1. Coronavirus: Impact on the labour market
2. Coronavirus: holiday bookings
3. Financial Indicators: Key Economic Indicators
4. Legal Aid: the review of LASPO Part 1
5. Interest rates and Monetary Policy: Key Economic Indicators.

Under '**Education**', the top research briefings incl.

1. Coronavirus: Childcare FAQs
2. Coronavirus: Update implications for the further and higher education sectors in England
3. Coronavirus: Impact on special educational needs in England
4. School places in England: Applications, allocations and appeals
5. Coronavirus Bill: Overview.

Under '**Housing and Planning**', the top research briefings incl.

1. Housing Market: Key Economic Indicators
2. Coronavirus: Housing support
3. Support for UK Veterans
4. Fire Safety Bill 2019-2020
5. Planning: change of use

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Under '**Energy**', '**environment**' and '**Climate change**' include:

1. Co-operative and Community Benefit Societies (Environmentally Sustainable Investment) Bill 2019 - 20
2. Coronavirus: Support for household finances
3. Support for low carbon power
4. Coronavirus: The challenge for critical national infrastructure
5. Brexit and Chemicals regulation (REACH)

**House of Commons Library** - A search on '**construction industry**' identifies 17 key documents, that incl. 'Taxation in the construction industry', 'CITB – Construction Industry Training Board Levy', and '**The construction industry: statistics and policy, December 2019**' -

Abstract: Construction industry – employment, new orders, output. [Construction 2025](#), [The Farmer Review](#) and the [Construction Sector Deal](#) (part of the government's [Industrial Strategy](#)).

**Key statistics** – In 2018, the construction industry contributed £117 billion to the UK economy, 6% of the total.

Economic output in 2018 was slightly down on 2017, the first fall since 2013.

There are 2.4 million construction industry jobs in the UK in Q2 2019, 6.6% of all jobs. There are more construction jobs now than at any time since 2007, although throughout this period, roughly the same proportion of jobs have been in construction.

The construction industry is unusual because of the high proportion of self-employment in the sector – 36% in Q2 2019, compared to the average for the whole economy of 13%.

New orders to the construction industry were worth £61.7 billion in 2017. This is 13% down in 2017, the first fall since 2011. New housing orders accounted for 35% of all construction orders, commercial orders accounted for 25% and infrastructure orders accounted for 19%.

[Access and download the full report, 'Construction industry: statistics and policy](#)

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## e-Journal Review

### Built Environment Industry Journal titles reviewed by UCEM e-Library

This edition ([April 2020](#)) of RICS's [MODUS](#) Digital Magazine, and indeed the forthcoming May edition – were commissioned and put together just before we started to fully understand the true impact of the global spread of Covid-19 pandemic.

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In the months that follow, RICS will be exploring the impacts of the pandemic on the built and natural environment professions, but for the most up to date information and guidance from RICS in the meantime, please keep checking the **Coronavirus Hub**.

In this issue's cover feature RICS investigate why, nearly three years after the tragedy of the Grenfell Tower fire, many householders are still trapped in unsafe homes, and what RICS has been doing to ease uncertainty for leaseholders and surveyors around the valuation process for properties in buildings clad in unsafe materials.

The Heritage Alliance's **Heritage Update**, the latest edition focusing on COVID-19 Update and Support, and the impact it has on the heritage sector.

Institute of Workplace and Facilities Management (IWFM) **Facilitate**, the latest edition focusing on 'FM's response to the pandemic and anxiety about returning to work post-lockdown'.

**Contractors World International**,

**Construction Information Service (CIS) Insight 2020**. The Latest Edition focuses on 'Remote working and digital solutions – the time to start embracing the future of work is now'

- Adopt cloud-based working,
- Staying connected in a remote working situation, and
- Optimising onsite presence.

**Taylor and Francis Online** incl.

- *Construction Management and Economics*,
- *Building Research and Information*, and
- *Journal of Property Research*

**Henry Stewart Publications** incl.

- *Building Survey, Appraisal and Valuation*,
- *Journal of Urban Regeneration & Renewal*, and
- *Corporate Real Estate*,

The in-depth articles and case studies published in the latest issue of ***Corporate Real Estate Journal*** incl.

- 1. Editorial:** Reflections on a corporate real estate sector,
- 2. Comment:** How far behind the curve is the commercial real estate industry? The growth of 'flex' space and its implications for CRE,
- 3. Papers:** How commercial real estate can attract and retain the most innovative, high-growth tenants and monetise new revenue opportunities,
- 4.** The response to noise distraction by different personality types: An extended psychoacoustics study,
- 5.** The Tax Cuts and Jobs Act of 2017: Implications for the US real estate market,

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6. The best bidding method for your CRE sourcing initiative: A comparative analysis of popular competitive methods,
7. How coworking is fuelling the evolution of innovation centres and districts.

### **Educational Journal titles and Open Educational Resources (OERs) reviewed by UCEM e-Library**

*OpenPraxis* – peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education. The latest edition, **Vol 11(4)** includes selected papers from the Open Education Consortium Global 2019 Conference.

#### **European Journal of Open, Distance and E-Learning**

(EURODL), 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.

As of **May 2020**, the most popular/cited article titles include:

- 'Predicting Dropout Student: An Application of Data Mining Methods in an Online Education Program',
- 'The Effects of Social Networking Sites in Distance Learning on Learners' Academic Achievements',
- 'Enhancing Understanding Flow and Self-Efficacy in Learners with Developmental and Attention Difficulties through ICT-Based Interventions',
- ICT Capacity Building: A Critical Discourse Analysis of Rwandan Policies from Higher Education Perspective,
- Open and Distance Learning Cultural Practices in Nepal.

The Online Learning Consortium (OLC) **Online Learning Journal**, latest edition, **Vol 24(1)**. The OLC first quarterly issue of 2020 contains 13 original articles in three sections spanning 281 pages. The first section includes four papers on faculty, professional development and online teaching. The next section of the issue contains five papers broadly related to students, community, and online learning. The final section contains four additional empirical studies on a variety of topics related to online learning tools, pedagogy, and environments.

**Henry Stewart Publications**, Management e-Journal collection incl. *Journal of Education Advancement & Marketing*.

**The Open Education Research Hub** (OER Hub), and

**The Directory of Open Access Journals** (DOAJ)

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## UCEM e-Book Review

### **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 in 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.

### **Adding some Tec-Variety: 100+ Activities for Motivating and Retaining Learners Online**

Bonk C J, and Khoo E R (2014) *Adding some Tec-Variety: 100+ Activities for Motivating and Retaining Learners Online* [e-book]. CreateSpace Independent Publishing Platform, e-ISBN-13: 9781496162724

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 renew their own passion for teaching. Using 10 theoretically driven and proven motivational principles, TEC-VARIETY offers over 100 practical



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yet innovative ideas based on decades of author experience teaching in a variety of educational settings.

[Access the free online book \*Adding Some TEC-VARIETY\*](#)

Please note: The authors have made an online version of this work available under a [Creative Commons Attribution-Non-commercial-Share-Alike 3.0 Licence](#).

### Studying at a Distance

Talbot C (2010) *Studying at a Distance* [e-book]. Maidenhead: 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.

### 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 book to DOAB.

[Access the Directory of Open Access Books \(DOAB\)](#)[Back to top](#)

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## UCEM e-Library Portrait

Whether you are obtaining qualifications, undertaking Continuing Professional Development or researching a particular field, gaining access to a wealth of useful and credible information resources is essential!

**UCEM e-Library:**



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**The UCEM e-Library** (accessed through the Virtual Learning Environment - VLE) is a comprehensive and valuable online resource, enabling staff and students to access a wealth of

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up-to-date, credible and subject-specific information to supplement teaching and learning materials, and support students throughout their studies.

At UCEM we recognise that in an information-rich age, everyone is pressed for time and it can be a challenge to keep up-to-speed with the latest research and find good-quality information when you need it.

**The UCEM e-Library can:**

- provide access to online resources around the clock,
- 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 in the UCEM e-Library?**

- Up-to-date information and online searchable databases from key educational and industry-specific sources incl. IHS's Construction Information Service, Estates Gazette Interactive, RICS's BCIS and ISURV, BSRIA, EBSCO Business Source Premier, Emerald Insight and access to their entire 'Property Management and the Built Environment' collection of journals, JustisOne, Westlaw UK, and more;
- 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 the Built Environment, Property, Construction, and Real Estate.

**Overwhelmed by the sheer amount of information out there?**

The e-Library is here to help make finding up-to-date, credible and relevant information easier. Remember: "A Librarian is a powerful search engine with a heart, that listens and understands the library and information requirements of others and provides a response in a format that suits their needs"

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Lucy Roper, UCEM Information Governance Manager and who can be contacted on the [library@ucem.ac.uk](mailto:library@ucem.ac.uk) email address.

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## Student Careers Services

### The UCEM 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-judgmental and impartial.

#### [Access UCEM Career Services](#)

### Building Better Property Professionals

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.

This month (**May 2020**) the Hot Top Highlight - **Changes to RICS Minimum PII Requirements (May 2020)**. This blog takes a look at the latest changes to RICS' minimum Professional Indemnity Insurance (PII) policy wording from 1 May 2020.

**Lucy's Top Tip** – If you are planning to sit your RICS APC/AssocRICS, make sure you are aware of Property Elite's APC Support services, including submission reviews, question packs, revision quizzes and e-mock interviews.

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**Note:** The author of this blog, 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.

[Access Property Elite's 'Building Better Property Professionals'](#)

### **Other related web-links**

[GoConstruct.org](#) website showcases the many career opportunities available in construction and the built environment. The website 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.

[TARGETjobs](#) – All TARGETjobs graduate career guides and directories are available for you to view online and download for future reference and include [Property 2020](#), [Engineering 2020](#), and [Careers Survival Pack](#).

[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.

[Access to: RICS Careers](#) – What is surveying? See how surveyors shape our communities and tackle global issues like climate change – and discover how you can improve the world around you.

### **Building People**

[Enabling connections for a competent, diverse and valued built environment workforce](#)

The aim of 'Building People' was to create a technology platform and collaborative network, that enables connections and seeks to reduce the skills shortages across the Built Environment.

In 2018 UCEM's widening participation ambitions were boosted after acquiring the 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 the skills gap via an online platform, is now a subsidiary of UCEM.

[Back to top](#)**Building People:**

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## UCEM Sustainability Hub

UCEM has a Sustainability Hub within the VLE e-Library where you will find interesting resources, news, articles, projects and publications which support and information 'future skills' for sustainability within the construction, surveying and property industries.

Sustainability supports UCEM vision and core purpose to provide truly accessible, relevant and cost-effective education, enabling students to enhance careers, increase professionalism and contribute to a better built environment.

### **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.

The BRE provides leading edge information and advice on all aspects of sustainable that include – Sustainable construction of buildings, Communities, Infrastructure, Sustainable organisations, Materials, products and services, Waste management, Energy management services, and Training and publications.

[Access BRE Sustainability](#)

### **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.

[Access the Routledge Sustainability Hub](#)

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## QSAND and the Sustainability Goals

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. Quantifying Sustainability in the Aftermath of Natural Disasters (QSAND) is a self-assessment tool to promote sustainable approaches and contributing to aid the achievement of several of these 17 goals in disaster affected global communities.

### QSAND and the Sustainability Goals



Source: Designing Buildings .co.uk Wiki (2019) 'Forgetting the big picture when considering sustainability' [online], last edited 31 March.

### **Note: Use of Wikis 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 an encyclopaedia (which include 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 subject before you extend your study of the subject further. But you then must consider the subject in more depth using books, journals 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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## Information Governance

UCEM is committed to advancing information governance and compliance, ensuring that the services provided comply with the General Data Protection Regulation (GDPR), Data Protection, Freedom of Information, Records management, Copyright, and Information Security.

### Information Governance:



© 2020 iStockphoto LP, Royalty free image

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 comply with data protection and copyright.

### Data Protection

With new technologies constantly emerging and us finding ourselves moving further into an ever more digital direction, our personal data, how it is used and who has access to it becomes a growing and global concern for all.

The General Data Protection Regulation (GDPR) was the first legislative change in recent years to address these concerns, with a broad aim to invoke a cultural shift in the way organisations manage personal data.

Further information, advice and guidance on Data protection, GDPR and more can be found at the Information Commissioner's Office (ICO), the UK's independent authority set up to uphold information rights in the public interest, promoting openness by public bodies and data privacy for individuals.

[Access the Information Commissioner's Office website](#)

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## Latest Data Protection News

### GDPR – What's new?

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:

**January 2020** – The Danish Data Protection Agency has adopted Standard Contractual Clauses (SCCs) which have been approved by the European Data Protection Board (EDPB). The ICO have updated their detailed guidance on contracts and liabilities between controllers and processors to reflect this.

[Access the Information Commissioner's Office 'What's new?' section of their website](#)

### Google's announced timeline for new privacy rules

- Google has announced its new privacy policy, which limits the use of cookies, will be rolled out over the next two years (see publication date).

Companies use cookies – a digital tracking tool – to discern information about individual's online activity so they can serve up targeted advertisements.

The policy called, 'privacy sandbox' means third parties will have to go through Google to access user data.

Critics believe limiting third-party access to cookies this way diminishes market fairness safety.

[Read the article, 'Google's announced timeline for new privacy rules', in full](#)

### Case Study: EasyJet admits data of nine million hacked

- EasyJet has admitted the "highly sophisticated cyber-attack" has affected approximately nine million customers

It said email addresses and travel details had been stolen and that 2,208 customers had also had their credit and debit card details "accessed".

The firm has informed the UK's Information Commissioner's Office (ICO) while it investigates the breach.

EasyJet first became aware of the attack in January. It told the BBC that it was only able to notify customers whose credit card details were stolen in early April 2020. Stolen credit card data included the three digit security code – known as the CVV number – on the back of the card itself.

EasyJet added that it had gone public now in order to warn the nine million customers whose email addresses had been stolen to be wary of phishing attacks. It said it would notify everyone affected by 26 May 2020.



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The ICO warned people to be on the lookout for phishing attacks and directed them to its [advice on its website](#) on how to spot such scams.

[Read the article, 'EasyJet admits data of nine million hacked', in full](#)

## 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: if there is something you really want to use for learning materials and someone else owns the copyright ... [permission must be sought!](#)

The copyright owner may wish to charge you, but often they just appreciate you asking them if they are happy for you to acknowledge their work and inform them of how the information will be used and who it will be circulated to”.

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

## 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 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.

**Note:** UCEM holds a CLA ‘Higher Education Photocopying and Scanning Licence’

[Access the Copyright Licensing Agency website for further information](#)

## CLA Title Search tool

The [CLA Title Search tool](#) 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

[Check permission at CLA Higher Education Licence.](#)

[Introducing a new CLA Step-by-Step Guide and Interactive Toolkit for those checking permissions within their licence.](#)

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## Latest Copyright News

### Article 13: UK will not implement EU copyright law

- Universities and Science Minister Chris Skidmore has said that the UK will not implement the EU Copyright Directive after the country leaves the EU.

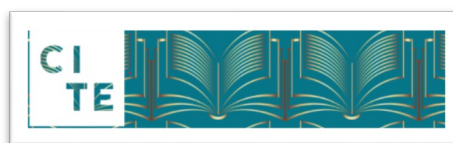
Several companies have criticised the law, which would hold them accountable for not removing copyrighted content uploaded by users, if it is passed.

EU member states have until 7 June 2021 to implement the new reforms, but the UK will have left the EU by then.

Copyright is the legal right that allows an artist to protect how their original work is used.

[Read the full BBC Technology news item 'Article 13: UK will not implement EU copyright law'](#)

### Keeping abreast of the latest developments in Information Governance



© CLA 2020

As UCEM Information Governance Manager I regularly attend the Copyright Licensing Agency (CLA) Copyright & Information Technologies in Education (CITE) Forum.

The CITE Forum is a place to discuss the CLA's technology and licence offerings (such as the Digital Content Store) but also an opportunity for Higher Education Institute's to network, share and disseminate relevant copyright information. The Forum meets twice a year and publishes a biannual magazine for the CITE community containing the latest developments.

Copyright Licensing Agency (2019) '[CITE – 2020 Vision](#)', [CITE Magazine, Winter 2019, No. 3](#) [online].

Copyright Licensing Agency (2019) '[A CITE to behold](#)', [CITE Magazine, Summer 2019, No. 2](#) [online].

Copyright Licensing Agency (2018) [CITE Magazine, Winter 2018, No. 1](#) [online].

UCEM is committed to advancing information governance and compliance, ensuring that the services we provide comply with **GDPR, Data Protection, Records Management, Copyright, and Information Security**.

Part of my role as involves keeping abreast of the latest developments and benchmarking the work I do against that of

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others. I also undertake regular Continuing Professional Development (CPD), and an element of this is attending the CITE Forum attending events and conferences provided through my professional body, CILIP – The Library and Information Association, and others.

### **CILIP's Annual Copyright Conference in association with Naomi Korn Associates**

On 30<sup>th</sup> April 2020, the annual CILIP Copyright Conference took place. Despite the current lockdown due to COVID-19, CILIP in association with Naomi Korn Associates, as well as great speakers and further experts in the field in attendance, made it happen albeit online this year.

This year's conference provided an opportunity to delve deeper into copyright issues and gain a better understanding of how policy impacts on libraries and the information sector.

Sessions covered broad copyright impact for the profession incl.

- **Taking Rights Away? - Reconsidering obstacles to copyright reform.**

In policy debates in copyright, it is often argued that changes to the copyright legislation which may be favourable to librarians, information professionals and the users of their services, would deprive rights holders of established property rights. Such arguments were used to prevent the resolution of the '2039 problem' in unpublished works. In this keynote paper, Jonathan Griffiths, Professor of Intellectual Property Law, Queen Mary University of London argues that, when scrutinised carefully, these claims are often less convincing than they initially appear.

- **The EU Directive: Ground-breaking, Clarifying or Pointless**

The EU Copyright Directive: What does this mean for libraries and the cultural heritage sector? Positioning new directive in the context of existing EU legislation and case law Dr Andrea Wallace, Lecturer in IP, Exeter University, and Anthony Misquitta, General Counsel V&A discussed how the new Directive will affect libraries and cultural heritage organisations.

- **Copyright Risk Assessment Framework**

The National Libraries of Wales and Scotland have jointly developed and adopted a copyright risk acceptance framework. The framework is a pragmatic risk assessment and decision-making tool to aid the digitisation of collection material (Original Objects) and the making available of digitisations (Digital Surrogates). Fred Saunderson, Rights and Information Manager, National Library of Scotland.

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- **Plan S from a Publishers Perspective: The benefits for Librarians and Academics**

The push to Open Access has created a huge change within the industry, as well as opportunities, for academics, publishers and librarians. Sarah Greaves, PhD, will discuss Plan S from an Open Access publisher's perspective.

- **Copyright in the Courts**

The session will consider a selection of recent, and not so recent judgements on copyright from UK courts, the Court of Justice of the EU and elsewhere as they affect librarians, archivists and other information professionals. Tim Padfield, Author, *Copyright for Archivists and Records Managers*

- **Ensuring every pound and every licence advances Open Access: Transformative agreements,**

Libraries entering into transformative agreements with publishers changes the business model underlying scholarly journal publishing, enabling more open access. In this session Lorraine Estelle, Director, Information Power Limited (IPL) shared a free transformative agreement toolkit, and insight into how these can be implemented by a wide array of libraries.

- **CLA Licensing Update for Librarians and Information Professionals**

James Bennett, Head of Rights and Licensing, Copyright Licensing Agency updated attendees on the latest enhancements to the licences (esp. over this COVID-19 pandemic period and extending limits for licence holders) and workflow tools offered by the CLA and CLIA Licence Plus.

During the day we were also updated about pertinent copyright issues incl. Unlocking sound heritage; Exploiting your library and information assets; Copyright Life Hacks for Librarians, in 'quick fire' five- minute lightening talks.

[#CILIPCopy20](#)

[#copyright](#)

## **The Challenges of Remote Working at Present**

For those who work remotely all or part of the time already, you or your employer [depending on whether you are self-employed / freelancer or an employee] will have safeguards in place that enable you to operate securely when handling commercially sensitive or others' third party data. The difference, in March 2020, is that at very short notice, organisations are having to move staff to homeworking often with literally hours' notice as the Government COVID-19 instructions are issued.

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There are growing numbers of tips and survival guides online that include: Information Commissioner's Office (ICO) [Data protection and coronavirus: what you need to know](#).

### **The challenges of remote working at present and point to consider from a data privacy perspective**

Provided within this article are points to consider from a data privacy perspective that include:

1. **Have a clear statement to all staff** stressing that "The protection of personal data that we hold, and use is important to us and must be handled at all time in a way that is compliant with data protection law and our Data Protection and Privacy policies. While we have to adapt to comply with the official guidance, we will adjust out working processes to allow us to deliver our services. These are time limited instruction that will be kept under review. At the end of the period then all data that is held temporarily on personal devices as a direct result of this exceptional times, will be deleted." (Tullo 2020)
2. **Set out what use of data**, contact lists, customer documents are being allowed.
3. As part of this exceptional response to homeworking **keep a full record of where staff are working from and what equipment they are using**.
4. **State that you have assessed the best way of ensuring homeworking efficiency** and are proposing that personal devices and mobile phones can be used. That you will review this [weekly seem sensible at present] in line with experience and how staff report it is working.
5. **Reissue and emphasis your usual security arrangements –** Virus and password protection, not leaving data visible to others, having a PIN code, or not sharing their device with others in their family or household
6. **Take care to be aware where data is being stored**, even if temporary so that the security risk is managed and assessed. For the **weekly reviews** – have your Senior Leadership Team note the number of staff using personal devices, any queries or issues they are finding and demonstrate that you are monitoring the situation and are flexible in closing it down if any specific concerns arise.
7. Choose your collaboration tool of choice and consider recording online meetings and note actions especially where team members are geographically spread out and where broadband speeds and kit may vary in quality.
8. You might also consider having a standard introduction for homeworking staff to explain that they are homeworking and not in the office, so callers understand the position.
9. This is where a nominated Data Protection Officer [DPO] or Data Officer can support the senior team in the messaging to colleagues.

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*Source:* Tullo C, OBE (2020) '[The Challenges of Remote Working at Present](#)'. © [Naomi Korn Associates](#), 2020. Some Rights Reserved. The text is licensed for use under the Creative Commons Attribution Share Alike Licence (CC BY SA).

Regarding UCEM we have followed these pointers:

(i) A clear statement went to staff, and UCEM has a designated area within their central SharePoint site for Business Continuity Planning (BCP) that has the following folders containing

- Official Communications [Internal and External]
- Human Resources (HR) guidance and support
- Information Technology (IT) technical support, guidance and documents
- Data Protection guidance (incl. a new guidance note entitled, 'Processing Personal data when remote working').
- The [UCEM Data Protection and Privacy Policies](#) have been updated and should be read in conjunction with IT Policies).
- & Hints and tips for working from home.

(ii) A retention and destruction schedule is in place that collates lists of data used within respective teams and departments; (iii) A register is kept of where staff are working from and equipment used; (iv) Regular online meetings and weekly All-staff keep everyone updated and ensuring regular communication; (v) IT provide regular updates and guidance; (vi) GDPR 2020 training has been launched to re-enforce the importance of knowing how data is used and where it is being stored, even if temporary so that risk is managed and assessed; (vii and viii) online equipment and collaboration tools are well established at UCEM as an online education provider, but are regularly monitored; (ix) As mentioned above, hints and tips for working from home are provided, & (x) UCEM has a designated Data Protection Officer (DPO).

Please note:

There are regular updates on

- the [UCEM Website](#),
- VLE Help Page (for students),

and for all

- within the [e-Library](#) current awareness services, incl.
  - Information blog and
  - *Knowledge Foundations*.

## #BE Informed

- A short **UCEM e-Library video** (used within UCEM Marketing, [Social Media business channels i.e. LinkedIn](#) to promote the e-Library, *Knowledge Foundations*, regular information blogs, and more).

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## A to Z of useful references and web-links:

**A - B - C - D - E - F - G - H - I - J - K - L - M**

**N - O - P - Q - R - S - T - U - V - W - X - Y - Z**

### A

**American Society of Civil Engineers** (ASCE) Civil Engineering database provides free access to over 80 thousand abstracts taken from ASCE publications since 1973. ASCE [online]. Further information is available at: [www.asce.org](http://www.asce.org) [accessed 21 May 2020]

**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. ARCOM [online]. Further information available at: [www.arcom.ac.uk](http://www.arcom.ac.uk) [accessed 21 May 2020]

**ARCOM Abstracts database** – contains open access of every ARCOM conference paper since 1997 and is now a major resource for all active researchers.

**ARCOM Newsletters** - contains the latest news from the industry.

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### B

**BBC Education** [online]. Further information available at: [www.bbc.co.uk/news/education](http://www.bbc.co.uk/news/education) [accessed 21 May 2020]

**BBC Search** [online]. Further information available at: [www.bbc.co.uk/search](http://www.bbc.co.uk/search) [accessed 21 May 2020]

**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 University of Cambridge, **Centre for Digital Built Britain (CDBB)** [online]. Further information is available at: [www.cdbb.cam.ac.uk/AboutDBB/FAQs](http://www.cdbb.cam.ac.uk/AboutDBB/FAQs) [accessed 21 May 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 at: <http://bimforum.org> [accessed 21 May 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/BOMA/Research-Resources](http://www.boma.org/BOMA/Research-Resources) [accessed 21 May 2020]

**British and Irish Legal Information Institute** (BAILLI) Case Law Search [online]. Further information available at: [www.bailii.org/form/search\\_cases.html](http://www.bailii.org/form/search_cases.html) [accessed 21 May 2020]

**British Council of Shopping Centres** (BCSC) 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.**

**British Institute of Facilities Management (BIFM)** – The BIFM is now the Institute of Workplace and Facilities Management (IWFM).

**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. BPF [online]. Further information available at: [www.bpf.org.uk/en/index.php](http://www.bpf.org.uk/en/index.php) [accessed 21 May 2020]

**Building Conservation.com** [online] – Information resources for conservation, restoration and repairs. Further information is available at: [www.buildingconservation.com](http://www.buildingconservation.com) [accessed 21 May 2020]

**Building Conservation.com Articles directory by subject** [online]. Available at: [www.buildingconservation.com/articles/articles.htm](http://www.buildingconservation.com/articles/articles.htm) [accessed 21 May 2020]

**Building Design Directory** [online] – provides construction and environmental products / services / information for Architects, Engineers and Facility Managers. Further information is available at: [www.buildingdesign.co.uk](http://www.buildingdesign.co.uk) [accessed 21 May 2020]

**Building People** - a technology platform and collaborative network, that enables connections and seeks to reduce the skills shortages across the Built Environment. Building People [online]. Further information is available at: [www.buildingpeople.org.uk](http://www.buildingpeople.org.uk) [accessed 21 May 2020]

**Building Research Establishment** (BRE) [online] is an independent and impartial, research-based consultancy, testing and training organisation, offering expertise in every aspect of the built environment and associated industries. Further information available at: <https://bregroup.com/about-us> [accessed 21 May 2020]

**BRE A-Z of BRE Services** (from Accreditation to Zero Carbon) [online]. Further information is available at: [www.bregroup.com/a-z](http://www.bregroup.com/a-z) [accessed 21 May 2020]

**BRE Case Studies** [online]. Further information is available at: [www.bre.co.uk/podpage.jsp?id=1744](http://www.bre.co.uk/podpage.jsp?id=1744) [accessed 21 May 2020]

**Building Services Research and Information Association** (BSRIA) [online]. BSRIA is a test, instrumentation, research and consultancy organisation, providing specialist services in construction and building services. Available at: [www.bsria.co.uk](http://www.bsria.co.uk) [accessed 21 May 2020]

**Building talk** [online]. Available at: [www.buildingtalk.com](http://www.buildingtalk.com) [accessed 21 May 2020] *Building Talk* is an email newsletter for Architects, Civil Engineers and Building Services Contractors.

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## C

**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. CPRE [online]. Available at: [www.cpre.org.uk](http://www.cpre.org.uk) [accessed 21 May 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. CPRE Resources [online]. Available at: [www.cpre.org.uk/resources](http://www.cpre.org.uk/resources) [accessed 21 May 2020]

**Centre for Architecture and Built Environment Research** (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] and available at: [www1.uwe.ac.uk/et/research/caber.aspx](http://www1.uwe.ac.uk/et/research/caber.aspx) [accessed 21 May 2020]

**The Center for Construction Research and Training** (CPWR) is dedicated to reducing occupational injuries, illnesses and fatalities in the construction industry through research, training and service programs. CPWR [online] and available at: [www.cpwr.com](http://www.cpwr.com) [accessed 21 May 2020]

**Centre for Digital Built Britain** (CDBB) is a partnership between the Department of Business, Energy & Industrial Strategy and the University of Cambridge to deliver a smart digital economy for infrastructure and construction for the future and transform the UK construction industry's approach to the way we plan, build, maintain and use our social and economic infrastructure. CDBB [online]. Available at: [www.cdbb.cam.ac.uk/AboutDBB](http://www.cdbb.cam.ac.uk/AboutDBB) [accessed 21 May 2020]

**Chartered Institute of Building** (CIOB) [online]. 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. Available at: [www.ciob.org](http://www.ciob.org) [accessed 21 May 2020]

**CIOB Library** Incl. Library and Information Services [online]. Available at: [www.ciob.org/media-centre/library](http://www.ciob.org/media-centre/library) [accessed 21 May 2020]

**CIOB's Construction Manager journal** [online]. Available at: [www.constructionmanagemagazine.com](http://www.constructionmanagemagazine.com) [accessed 21 May 2020]

**CIOB's Global Construction Review journal** [online]. Available at: [www.globalconstructionreview.com/](http://www.globalconstructionreview.com/) [accessed 21 May 2020]

**CIOB's Policy and Public Affairs portal** [online]. Available at: <http://policy.ciob.org> [accessed 21 May 2020]

**The CIT-eA Project Creating Innovative Technology – Enhanced Assessments** – a research project that explored ways to increase the amount of assessments in Further and Higher Education using technology. The CIT-eA Project [online]. Available at: <http://citea.digitalinsite.co.uk> [accessed 21 May 2020]

**Cities / buildings images database** [online]. Available at: [www.washington.edu/ark2](http://www.washington.edu/ark2) [accessed 21 May 2020] is a collection of images of buildings and cities from around the world aimed at students, researchers and educators.

**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](http://www.C-Link.com) [accessed 21 May 2020]

**College of Estate Management** (CEM) – See University College of Estate Management (UCEM)

**Commercial Real Estate Services** (CBRE) is the world's largest real estate services provider, with a preeminent leadership position in virtually all key business centers globally. CBRE [online]. Available at: [www.cbre.co.uk](http://www.cbre.co.uk) [accessed 21 May 2020]

**Community-Led Housing** (CLH) Toolkit: a resource for local authority and housing professionals' [online]. Available at: <https://clhtoolkit.org/> [accessed 21 May 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.

**Confederation of British Industry** (CBI) is the UK's premier business lobbying organisation, providing a voice for employers at a national and international level. CBI [online]. Available at: [www.cbi.org.uk](http://www.cbi.org.uk) [accessed 21 May 2020]

**Conference on Training in Architectural Conservation** (COTAC) was formed in 1959 to improve the standard of education of everyone involved in building conservation, including craftsmen, professionals and homeowners. COTAC [online]. Available at: <http://ihbconline.co.uk/cotac2> [accessed 21 May 2020]

**COTAC Digital Bibliography** [online]. Available at: [http://cotac.global/digital\\_bib/](http://cotac.global/digital_bib/) [accessed 21 May 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. Constructing Excellence [online]. Available at: <http://constructingexcellence.org.uk/> [accessed 21 May 2020]

**Construction Enquirer** is a news website in construction. Construction Enquirer [online]. Available at: [www.constructionenquirer.com](http://www.constructionenquirer.com) [accessed 21 May 2020]

The **Construction Index** [online] provides a wide range of information services for the UK construction industry, that include a search engine of construction companies, daily construction news, market data, email newspaper letter, and Case Law analysis and legal commentary. Further information is available at: [www.theconstructionindex.co.uk](http://www.theconstructionindex.co.uk) [accessed 21 May 2020].

**Construction Industry Council** (CIC) – The representative forum for the professional bodies, research organisations and specialist business association in the construction industry. CIC [online] and available at: <http://cic.org.uk> [accessed 21 May 2020]

The **Construction Industry Research and Information Association** (CIRIA) [online]. Further information and resources are available at: [www.ciria.org/default.aspx](http://www.ciria.org/default.aspx) [accessed 21 May 2020]

**Construction Industry Training Board** (CITB) is the training board for the construction industry and partner in Construction Skills, the Sector Skills Council. CITB [online]. Available at: [www.citb.co.uk](http://www.citb.co.uk) [accessed 21 May 2020]

**Construction News** [online]. Available at: [www.constructionnews.co.uk](http://www.constructionnews.co.uk) [accessed 21 May 2020]

**Construction Products Association** (CPA) represents the UK's manufacturers and distributors of construction products and materials. Construction Products Association [online]. Further information is available at: [www.constructionproducts.org.uk](http://www.constructionproducts.org.uk) [accessed 21 May 2020]

**Construction Project Information Committee** (CPIC), 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. CPIC [online]. Available at: [www.cpic.org.uk](http://www.cpic.org.uk) [accessed 21 May 2020]

**Construction and Property Research Centre** (CPRC), University of the West of England (UWE) – the CPRC's research activity is focused around the three inter-related stages of the built environment lifecycle, namely design, construction and maintenance. Note: The UWE **Centre for Architecture and Built Environment Research** (CABER) now incorporates the CPRC.

**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. Contractors World [online]. Available at: <http://cwmags.com/> [accessed 21 May 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. Note: From August 2019 Copac was replaced by [Jisc's Library Hub Discover](#).

**Council for British Archaeology** (CBA) is an independent charity bringing together members, supporters and partners to give archaeology a voice and safeguard it for future generations. Archaeology for all [online]. Available at: <http://new.archaeologyuk.org> [accessed 21 May 2020]

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## D

**Designing Buildings Wiki** [online] and available at: [www.designingbuildings.co.uk/wiki/Home](http://www.designingbuildings.co.uk/wiki/Home) [accessed 21 May 2020] is an industry-wide, cross-discipline forum for finding and sharing information.

**Designing Buildings Wiki – Student resources** [online] and available at: [www.designingbuildings.co.uk/wiki/Student\\_resources](http://www.designingbuildings.co.uk/wiki/Student_resources) [accessed 21 May 2020] has a wide range of resources aimed at students of the built environment, as shown here.

**Designing Buildings Wiki – Construction industry acronyms** [online] and available at: [www.designingbuildings.co.uk/wiki/Construction\\_industry\\_acronyms](http://www.designingbuildings.co.uk/wiki/Construction_industry_acronyms) [accessed 21 May 2020] providing a list of commonly used construction industry acronyms.

The **Design Council** [online] champions great design that improves lives and makes things better and available: [www.designcouncil.org.uk](http://www.designcouncil.org.uk) [accessed 21 May 2020]. See also [Inclusive Design Hub for the Built Environment](#) (a project of The Design Council).

**Directory of Open Access Books** (DOAB) is a service which harvests details of academic and mainly peer-reviewed books published on open access. DOAB [online]. Available at: [www.doabooks.org/doab](http://www.doabooks.org/doab) [accessed 21 May 2020]

**Directory of Open Access Journals** (DOAJ) covers all open access scientific and scholarly journals, using a quality control system to guarantee the content. DOAJ [online]. Available at: <https://doaj.org> [accessed 21 May 2020]

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## E

**The Economics Network** [online] provides publications, events and other resources to support university teachers of economics throughout the UK and worldwide. Available at: [www.economicsnetwork.ac.uk](http://www.economicsnetwork.ac.uk) [accessed 21 May 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. EPSRC [online]. Available at: [www.epsrc.ac.uk](http://www.epsrc.ac.uk) [accessed 21 May 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. English Heritage [online]. Further information is available at: [www.english-heritage.org.uk](http://www.english-heritage.org.uk) [accessed 21 May 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](#).

**Estates Gazette** The UK's largest commercial property news team. *Estates Gazette Interactive* [online]. Available at: [www.egi.co.uk](http://www.egi.co.uk) [accessed 21 May 2020] incl. ***Estate Gazette, News from the nationals*** – Round-up of the top property stories with quick links.

**European Real Estate Society** (ERES) was established in 1994 to create an international real estate network between academics and professionals across Europe. ERES [online]. Further information is available at: [www.eres.org](http://www.eres.org) [accessed 21 May 2020].

**ERES Digital Library** [online] and available at: [www.eres.org/index.php/activities/libraryeres](http://www.eres.org/index.php/activities/libraryeres) [accessed 21 May 2020]

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## G

**Great Buildings** [online]. Available at: [www.greatbuildings.com](http://www.greatbuildings.com) [accessed 21 May 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](http://www.glenigan.com) [accessed 21 May 2020] provides UK construction project sales leads, market analysis, forecasting, and company intelligence.

**Global Research Gateway**: CBRE's online resource for real estate research and reports. CBRE Global Research Gateway [online]. Available at: [www.cbre.com/research-and-reports](http://www.cbre.com/research-and-reports) [accessed 21 May 2020]

**The Green Construction Board** (GCB) is a consultative forum consisting of key members of UK construction and property industry. GCB [online]. Further information is available at: [www.constructionleadershipcouncil.co.uk/workstream/sustainability](http://www.constructionleadershipcouncil.co.uk/workstream/sustainability) [accessed 21 May 2020]

**The Guardian, Housing network** – providing insight, advice and best practice from your community. The Guardian, Housing network [online]. Further information is available at: [www.guardian.co.uk/housing-network](http://www.guardian.co.uk/housing-network) [accessed 21 May 2020]

**The Guardian, Higher Education / Universities** [online]. Further information is available at: [www.guardian.co.uk/higher-education-network](http://www.guardian.co.uk/higher-education-network) [accessed 21 May 2020]

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## H

**Health and Safety Executive** (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. HSE [online]. Available at: [www.hse.gov.uk/index.htm](http://www.hse.gov.uk/index.htm) [accessed 21 May 2020]

**HSE, Health & Safety in the construction industry** [online]. Further information is available at: [www.hse.gov.uk/construction](http://www.hse.gov.uk/construction) [accessed 21 May 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. Heritage Alliance [online]. Available at: [www.theheritagealliance.org.uk](http://www.theheritagealliance.org.uk) [accessed 21 May 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](http://www.theheritagealliance.org.uk/update) [accessed 21 May 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. Heritage Help [online]. Available at: <http://heritagehelp.org.uk> [accessed 21 May 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 Higher Education funding bodies and by subscriptions and grants. HEA [online]. Further information is available at: [www.heacademy.ac.uk](http://www.heacademy.ac.uk) [accessed 21 May 2020]

**HEA Knowledge Hub** [online] and available at: [www.heacademy.ac.uk/hub](http://www.heacademy.ac.uk/hub) [accessed 21 May 2020]

**Higher Education Empirical Research** (HEER) Database comprises summaries of the latest published research on a range of topics related to higher education. HEER [online]. Available at: <http://heer.qaa.ac.uk/> [accessed 21 May 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](http://www.historicengland.org.uk) [accessed 21 May 2020]

**Historic Environment Local Management** (HELM) - provides accessible information, training and guidance to decision makers in local authorities, regional agencies and national organisations whose actions affect the historic environment. Note: All HELM web content on the Historic England website [online] and available at: <https://historicengland.org.uk/services-skills/training-skills/helmtraining> [accessed 21 May 2020].

**Home Builders Federation** (HBF) represents and serves its members in a range of ways including; Ensuring senior politicians and government officials are aware of housing issues and the challenges faced by our members; and working with Government officials to ensure housing policies are introduced that facilitate housing supply, in a way that is workable for the industry [online]. Available at: [www.hbf.co.uk](http://www.hbf.co.uk) [accessed 21 May 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 21 May 2020]

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**Inclusive Design Hub for the Built Environment** is a collection of the latest guidance and best practice on inclusive design in the built environment and a project of **The Design Council** [online]. Available at: [www.designcouncil.org.uk/projects/inclusive-design-hub-built-environment](http://www.designcouncil.org.uk/projects/inclusive-design-hub-built-environment) [accessed 21 May 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](http://www.infabode.com/dashboard) [accessed 21 May 2020]

**Institution of Civil Engineers** (ICE) is a registered charity that strives to promote and progress civil engineering. ICE [online]. Available at: [www.ice.org.uk](http://www.ice.org.uk) [accessed 21 May 2020]

**ICE Virtual Library** [online]. Available at: [www.icevirtuallibrary.com](http://www.icevirtuallibrary.com) [accessed 21 May 2020] is a free database that indexes all ICE journals.

**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. ICDE [online]. Available at: [www.icde.org](http://www.icde.org) [accessed 21 May 2020]

**Institute of Historic Building Conservation** (IHBC) 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. IHBC [online]. Available at: [www.ihbc.org.uk](http://www.ihbc.org.uk) [accessed 21 May 2020]

**Institute of Workplace and Facilities Management** (IWFM) – Formerly the British Institute of Facilities Management, BIFM is now the IWFM. The workplace has been incorporated into their new brand so that the status of the professional can help take careers further, regardless of specialism. IWFM [online]. Further information is available at: [www.iwfm.org.uk](http://www.iwfm.org.uk) [accessed 21 May 2020]

**IWFM Insight** – discover leading research and resources for the workplace and facilities management profession. IWFM Insight [online]. Available at: [www.iwfm.org.uk/insight](http://www.iwfm.org.uk/insight) [accessed 21 May 2020]

**IWFM News** – discover the latest news affecting the profession and gain expert insight and advice. IWFM News [online] Available at: [www.iwfm.org.uk/news](http://www.iwfm.org.uk/news) [accessed 21 May 2020]

**IWFM Digital Magazine, *facilitate*** - Informing workplace and facilities management professionals. IWFM *facilitate* [online]. Available at: [www.facilitatemagazine.com](http://www.facilitatemagazine.com) [accessed 21 May 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. *ITcon* [online]. Available at: [www.itcon.org](http://www.itcon.org) [accessed 21 May 2020]

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## J

**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. Library Hub Discover currently contains 42,397,777 records created from 106,833,532 records contributed by 144 institutions. Jisc Library Hub Discover [online]. Available at: <https://discover.libraryhub.jisc.ac.uk> [accessed 21 May 2020].

**JORUM Archive** – 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 Jorum Archive can be accessed via the JISC website [online]. Available at: [www.jisc.ac.uk/website/legacy/jorum](http://www.jisc.ac.uk/website/legacy/jorum) [accessed 21 May 2020] where you can also gain access to JISC's full digital resources offer.

**Journal of Online Learning and Teaching** (JOLT) - 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.

**JournalTOCs** is the largest, free collection of scholarly Journal Title of Contents (TOCs) [online]. Available at: [www.journaltocs.ac.uk/index.php](http://www.journaltocs.ac.uk/index.php) [accessed 21 May 2020]

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## L

### **Leeds Beckett University's – School of the Built Environment, Engineering and Computing**

[online]. Further information that include Subject Area Research – 1) Civil Engineering and Building Services Engineering, 2) Planning, Housing and Human Geography, and 3) Surveying, Construction and Project Management is available at: [www.leedsbeckett.ac.uk/school-of-built-environment-engineering-and-computing/research](http://www.leedsbeckett.ac.uk/school-of-built-environment-engineering-and-computing/research) [accessed 21 May 2020]

**Leeds Beckett University's - Leeds Sustainability Institute** [online]. Further Information is available at: [www.leedsbeckett.ac.uk/leeds-sustainability-institute](http://www.leedsbeckett.ac.uk/leeds-sustainability-institute) [accessed 21 May 2020]

**Leeds Beckett University – The Library** [online]. Available at: <http://libguides.leedsbeckett.ac.uk/home> [accessed 21 May 2020]

**Lexology** is a comprehensive source of international legal updates, analysis and insights. Lexology publish in excess of 450 articles every day from over 1,100 law firms and service providers worldwide across 50 work areas in 25 languages. Lexology [online]. Available at: [www.lexology.com](http://www.lexology.com) [accessed 21 May 2020]

**Local Government Association** (LGA) is the national voice of local government. They work with councils to support, promote and improve local government. LGA [online]. Available at: [www.local.gov.uk](http://www.local.gov.uk) [accessed 21 May 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 21 May 2020]

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## M

**Multimedia Educational Resource for Learning and Online Teaching** (MERLOT). The MERLOT project began in 1997, when the California State University Center for Distributed Learning (CSU-CDL) developed and provided free access to MERLOT [online]. Available at: [www.merlot.org/merlot](http://www.merlot.org/merlot) [accessed 21 May 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.

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## N

**National Building Information Modelling (BIM) 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/our-tools/nbs-national-bim-library](http://www.thenbs.com/our-tools/nbs-national-bim-library) [accessed 21 May 2020],

**National Building Specification** (NBS) is an integrated global platform for everyone involved in the design, supply and construction of the built environment. NBS [online]. Available at: [www.thenbs.com](http://www.thenbs.com) [accessed 21 May 2020]

**NBS Knowledge** [online] is available at: [www.thenbs.com/knowledge](http://www.thenbs.com/knowledge) [accessed 21 May 2020]

**National Skills Academy for Construction** (NSAfC) is an industry-led framework supporting clients and contractors to identify, develop and realise employment and skills solutions across construction projects. CITB, NSAfC [online]. Available at: [www.citb.co.uk/national-skills-academy-for-construction](http://www.citb.co.uk/national-skills-academy-for-construction) [accessed 21 May 2020]. Note: It is facilitated by the Construction Industry Training Board (CITB).

**The National Trust** protect historic houses, gardens, mills, coastline, forests, woods, fens, beaches, farmland, moorland, islands, archaeological remains, nature reserves, villages and pubs. The National Trust [online]. Available at: [www.nationaltrust.org.uk](http://www.nationaltrust.org.uk) [accessed 21 May 2020]

**National Trust's Land & landscape** [online]. Available at: [www.nationaltrust.org.uk/land-and-landscape](http://www.nationaltrust.org.uk/land-and-landscape) [accessed 21 May 2020]

**New Civil Engineer** (NCE) a weekly magazine published for the Institution of Civil Engineers (ICE). NCE [online]. Available at: [www.nce.co.uk](http://www.nce.co.uk) [accessed 21 May 2020]

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## O

**Online Learning Consortium** (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. Online Learning Consortium [online] and further information is available at: <http://onlinelearningconsortium.org/> [accessed 21 May 2020]

**OLC's Online Learning** – the official journal of the Online Learning Consortium. *Online Learning* [online]. Available at: <http://onlinelearningconsortium.org/read/> [accessed 21 May 2020]

**Open Education Resources, Research Hub** – OER Hub gathers research on the impact of open education resources (OER) on learning and teaching practices. OER Hub [online]. Further information is available at: <http://oerhub.net/> [accessed 21 May 2020]

**Open Praxis** – published by the International Council for Open and Distance Education – ICDE, *Open Praxis* is a peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education. *Open Praxis* [online]. Available at: <http://openpraxis.org/index.php/OpenPraxis/index> [accessed 21 May 2020]

**Open University (OU) UK** [online] and available at: [www.open.ac.uk](http://www.open.ac.uk) [accessed 21 May 2020]

**Open University (OU) UK, Institute of Education Technology** [online] and available at: [www.open.ac.uk/iet/main](http://www.open.ac.uk/iet/main) [accessed 21 May 2020]

**Organisation for Economic Cooperation and Development (OECD) iLibrary** is the online library of the OECD, featuring its books, papers and statistics and is the gateway to OECD's analysis and data. Note: It replaced SourceOECD. OECD iLibrary [online]. Available at: [www.oecd-ilibrary.org](http://www.oecd-ilibrary.org) [accessed 21 May 2020]

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## P

**Parliament.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. Parliament.UK [online]. Further information is available at: <http://researchbriefings.parliament.uk> [accessed 21 May 2020]

**Planning Advisory Service** (PAS) provide consultancy and peer support, training sessions and online resources to help local authorities understand and respond to planning reform. PAS [online]. Available at: [www.local.gov.uk/pas](http://www.local.gov.uk/pas) [accessed 21 May 2020].

**Planning Officers Society** (POS) is the voice for public sector planning practitioners, pursuing good and effective planning practice within local government [online]. Available at: [www.planningofficers.org.uk](http://www.planningofficers.org.uk) [accessed 21 May 2020]



**The Planning Portal** is the UK Government's online planning and building regulations resource for England and Wales [online]. Available at: [www.planningportal.co.uk](http://www.planningportal.co.uk) [accessed 21 May 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. The Prince's Foundation [online]. Available at: <https://princes-foundation.org> [accessed 21 May 2020]

**Property People's Network** (PPN) 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](http://www.ppnonline.co.uk) [accessed 21 May 2020]

**Property Week** – Commercial property news. *Property Week* [online]. Available at: [www.propertyweek.com](http://www.propertyweek.com) [accessed 21 May 2020]

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## R

**Regeneration and Renewal – Placemaking Resource incorporating Regeneration & Renewal magazine** [online]. Available at: [www.placemakingresource.com](http://www.placemakingresource.com) [accessed 21 May 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](http://www.revocommunity.org) [accessed 21 May 2020]

**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. RICS [online]. Available at: [www.rics.org/uk](http://www.rics.org/uk) [accessed 21 May 2020]

**RICS > News & Insights** [online]. Available at: [www.rics.org/uk/news-insight](http://www.rics.org/uk/news-insight) [accessed 21 May 2020]

**RICS > Upholding Professional Standards** [online]. Available at: [www.rics.org/uk/upholding-professional-standards](http://www.rics.org/uk/upholding-professional-standards) [accessed 21 May 2020]

**RICS Library services** [online]. Available at: [www.rics.org/uk/footer/library-services](http://www.rics.org/uk/footer/library-services) [accessed 21 May 2020]

**RICS Library Online catalogue** – 2500 electronic documents selected and catalogued, plus books, magazine articles, law reports and transcripts [online]. Available at: <https://library.rics.org/> [accessed 21 May 2020]

**Royal Town and Planning Institute** (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. RTPI [online]. Available at: [www.rtpi.org.uk](http://www.rtpi.org.uk) [accessed 21 May 2020]

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## S

**Savills Research** – Savills Research, Insight & Opinion provides advice and analysis to clients across the UK, with specialists in commercial, residential and rural property research [online] and available at: [www.savills.co.uk/insight-and-opinion/research.aspx](http://www.savills.co.uk/insight-and-opinion/research.aspx) [accessed 21 May 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 21 May 2020]

**Supply Chain Sustainability School** represents a common approach to developing sustainability competence in the supply chain. It is a free resource available to any supplier and is part of their continued commitment to lead the industry into a brighter, more sustainable future. Supply Chain Sustainability School [online]. Further information is available at: [www.supplychainschool.co.uk/uk/default-home-main.aspx](http://www.supplychainschool.co.uk/uk/default-home-main.aspx) [accessed 21 May 2020]

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## T

**The Telegraph – Property and construction industry** - The latest news, analysis and share prices on Britain's biggest construction and property companies. The Telegraph, Property and Construction Industry [online]. Available at: [www.telegraph.co.uk/property-and-construction-industry](http://www.telegraph.co.uk/property-and-construction-industry) [accessed 21 May 2020]

**Trust in Digital Repositories** (TrustDR) – a research project that examined how to effectively manage the legal aspects of digital collections of learning resources and produced a policy development toolkit. TrustDR [online]. Available at: <https://trustdr.digitalinsite.co.uk> [accessed 21 May 2020]

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## U

**University College of Estate Management** (UCEM) is the leading provider of supported distance learning for real estate and construction professionals. UCEM [online]. Available at: [www.ucem.ac.uk](http://www.ucem.ac.uk) [accessed 21 May 2020]

**University of the West of England (UWE), Centre for Architecture and Built Environment Research** (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/caber.aspx](http://www1.uwe.ac.uk/et/research/caber.aspx) [accessed 21 May 2020]

**UWE Educational Resources for the Built Environment** (ERBE) produces unique and highly respected educational resources for academic and professional use and incorporates the **Video Project** and the **Construction Website**. Further information can be found on the ERBE website [online] and available at: [www1.uwe.ac.uk/et/cp/erbe.aspx](http://www1.uwe.ac.uk/et/cp/erbe.aspx) [accessed 21 May 2020]

**UWE, ERBE, Construction Films** concentrate on domestic building construction. The films explain the principles of modern construction and, where appropriate, trace its evolution over the last 100 years. ERBE Construction Films [online]. Further information is available at: [www1.uwe.ac.uk/et/cp/erbe/constructionfilms.aspx](http://www1.uwe.ac.uk/et/cp/erbe/constructionfilms.aspx) [accessed 21 May 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](http://www1.uwe.ac.uk/et/cp/erbe/constructionweb.aspx) [accessed 21 May 2020]

**UWE, Library, Search for things: A-Z** [online]. Available at: [www1.uwe.ac.uk/library/searchforthingsa-z.aspx](http://www1.uwe.ac.uk/library/searchforthingsa-z.aspx) [accessed 21 May 2020]

**UWE, Research publications and reports** – Providing immediate world-wide open access to all UWE's research output. Research at UWE Bristol [online]. Available at: [www1.uwe.ac.uk/research.aspx](http://www1.uwe.ac.uk/research.aspx) [accessed 21 May 2020]

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## V

**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. Virtual Training Suite [online]. Available at: [www.vtstutorials.co.uk](http://www.vtstutorials.co.uk) [accessed 21 May 2020]

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## Z

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