



Knowledge Foundations

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What's in this month's issue

- **Latest UCEM News** incl. - UCEM new master's degree supports the drive for sustainable built environments
- **Things you need to know this week** – Infrastructure commission calls for action to limit future flood risk - Stricter control measures on new developments.
- **Latest Research** from Savills, The Smith Institute, RICS, CBRE, Joseph Rowntree Foundation, and more.

Happy reading!

Issue 1 – January 2023

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

As this is the first issue of *Knowledge Foundations* for 2023, can I take this opportunity to wish you all a very

Happy, Healthy and Prosperous New Year!

UCEM new master's degree supports the drive for a sustainable built environment



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- UCEM has launched a new master's degree to support the appetite and demand for sustainability and environmental skills in the built environment. The MSc Innovation in Sustainable Built Environments aims to equip senior leaders and sustainability experts with the language and capabilities to challenge and drive their organisation's sustainability agenda.

This professional master's degree aims to conceptualise sustainability as a process and provide valuable insight into where to put effort, money and resources. Through peer discussion and academic input, students will gain insight into different perspectives, debate conflicting interest and develop an understanding of the underpinning policies, research and discourse. Key to the programme is the concept of innovation, and how it can be considered in all sustainability aspects of the built environment, from management, leadership and organisational approaches to the materials, processes and technologies adopted.

Access the article '[**UCEM new master's degree supports the drive for a sustainable built environment**](#)' in full.

Visit the [**MSc Innovation in Sustainable Built Environments programme page**](#) for further information.

Related link:

[**UCEM sails through third sustainability accreditation**](#)

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Other UCEM News



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Latest UCEM Article: 5 practical tips for saving energy costs

- We are in the midst of a cost-of-living crisis which has spread across the globe. Significant increases to the cost of food and energy have outstripped worker's salaries, and spiralling inflation has plunged countless into poverty. While the tenth days (see publication date) of COP27 focusses on the decarbonising our energy systems, we look at practical ways to save energy that can be actioned without spending too much money.

1. Avoid leaving appliances on standby
2. Draught-proofing windows and doors
3. User your thermostat effectively
4. Monitor your water usage
5. Invest in energy saving appliances, like an air fryer.

Further information on COP27 and access to the article in full is available within the 'Sustainability Hub' later in this publication.

Jubilant atmosphere at December 2022 Graduation Ceremony

- Attended by over 260 graduates, the class of 2022 came together with around 800 guests to celebrate their academic achievements at UCEM's winter graduation on Saturday 3 December. Held at Reading Town Hall, there was a jubilant and festive atmosphere as graduands, academics and esteemed guests mingled before the formal event.

Access the article '[Jubilant atmosphere at December 2022 Graduation Ceremony](#)' in full.

UCEM presents top 2022 Property Awards prize to the leader of The Crown Estate

- Sustainability, innovation and equality were the themes recognised at UCEM's 35th Property Award.

Held at the Institute of Directors in London, the event saw the prestigious 'Property Awards' presented to Dan Labbad, Chief Executive of The Crown Estate in recognition of his outstanding contribution to the property industry.

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In his speech, Dan reflected on where his passion came from and what his key drivers are. He also spoke of the UCEM's work, saying, "I want to recognise the wonderful work UCEM is going to educate the young people of this country because ultimately it's them that will help shape – and save – our collective future."

Access the article '[UCEM presents top 2022 Property Awards prize to the leader of The Crown Estate](#)' in full.

UCEM gains indefinite degree awarding powers

UCEM's journey as an independent institution has gathered another significant milestone.

The institute has been successful in applying to the Office for Students (OfS) for permanent degree awarding powers – referred to as 'indefinite degree awarding powers' which is an authorisation given to higher education providers to grant awards without a time limit.

The indefinite degree awarding powers follows a decade of UCEM being awarded taught degree awarding powers which were renewable on a six-yearly basis.

The latest milestone paves the way for UCEM to apply for full university title.

UCEM [first gained taught degree awarding powers in 2012](#) when operating as The College of Estate Management. This was [renewed by The Privy Council in 2018](#). Prior to 2012, UCEM had its programmes validated by the University of Reading and the Open University.

Access the article '[UCEM gains indefinite degree awarding powers](#)' in full.

UCEM Tutor shares research advocating greater adoption of renewable energy in Egypt

- A UCEM Tutor engage with a captive audience of university, industry and government stakeholders on a trip to Egypt, sharing his research on renewable energy usage in the country.

To learn more about the project, head to [the research website](#).

Access the article '[UCEM Tutor shares research advocating greater adoption of renewable energy in Egypt](#)' in full.

Education Department implements successful anonymous forum post trial

- Anonymous assignment forum posts could be here to stay after an encouraging pilot scheme led by two members of UCEM's Education Department.

Access the article '[Education Department implements successful anonymous forum post trial](#)' in full.

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#StandWithUkraine

UCEM



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The All-Party Parliamentary Group for Libraries, Information and Knowledge (APPG) noted the '[Statement of Solidarity with librarians, archivists and information professionals in Ukraine](#)', produced by the Chartered Institute of Library and Information Professionals (CILIP) with signatures from more than 800 leading national institutions, including [UCEM e-Library](#).

[Access further information on Ukraine Crisis Hub](#)

Also:

[Current and former UCEM tutors co-author real estate book](#)

[CIOB and UCEM team up to deliver an apprenticeship with a route to chartered status](#)

[UCEM joins campaign to drive better gender balance at board level](#), and

- [Access further information about the 30% Club](#),
- [Access more information on UCEM's diversity and inclusion objectives](#)

[UCEM reasserts its commitment to organisational excellence with Advance HE membership](#), and

- [Access further information on Advance HE](#).
- [For more on UCEM's ambitions, take a look at the Institution's Vision and Strategy brochure](#)

Note: [Keep abreast of the latest UCEM News and events](#)

– Read our blog to keep updated on Building Environment industry insights, student case studies, and thoughts from UCEM Principal: Ashley Wheaton.

Further information and the latest developments can also 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 😊. If you have any further questions, please contact:

- Student enquiries – Student Central on our VLE
- Employer enquiries – businessdevelopment@ucem.ac.uk
- Other enquiries –

Email: reception@ucem.ac.uk, Tel: +44(0)118 467 2100

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Other News

Things you need to know this week: Infrastructure commission calls for action to limit future flood risk

- Stricter controls on new developments and investment in drainage are needed to combat intense rainfall and increased urbanisations, according to government advisor.

Stricter controls on new property developments alongside up to £12 billion of investment in drainage infrastructure over the next 30 years will be needed to stop many more homes and businesses from flooding due to inadequate drainage, a new report from government advisory body the National Infrastructure Commission (NIC) has found. Currently, 325,000 properties in England are in areas at high risk from this type of flooding, but a combination of the impacts of extreme weather caused by climate change and increasing pressure on drainage systems caused by new developments could push 230,000 more into the high risk category by 2055, the report concludes. The report's recommendations include expanding existing drainage capacity above and below ground, such as through the use of nature-based solutions like green gulleys and flood storage ponds.

Also, this month,

- The Department for Levelling Up, Housing and Communities has allocated £35 million to 41 councils to help fund infrastructure and remediation works to enable sites in their ownership to be released for regeneration and housebuilding. The funding is the first allocation from the government's £180 million Brownfield Land Release Fund, which will continue to be rolled out over the next two years (see publication date). The funding will support 59 projects, including the regeneration of Lancaster city centre with 140 homes and other uses and one of two projects in Great Yarmouth to transform former industrial buildings into homes. The Brownfield Land Release Fund 2 follows on from the first Brownfield Land Release Fund, which saw £77 million allocated to councils to unlock more than 160 brownfield sites to enable construction of 7,750 new homes.

- Developer Linkcity has finalised a funding deal to allow it to take forward the first phase of a 690-home estate regeneration scheme in Southwark, south London, Southwark Council secured outline planning consent for the regeneration of the Tustin Estate last October, with the proposal providing 250 replacement council and shared equity homes, 220 additional council homes, including keyworker properties, and 220 homes for sale. The proposal will see existing council homes refurbished and provision of a park and at least 1,800 square metres of commercial space.

- Asset management business Aviva Investors has completed an

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£80 million placement in Cambridgeshire housing association Cross Keys Homes. The housing association will use the funding to support its ongoing growth and development plans, including a flagship scheme, Northminster in Peterborough, which will provide 315 affordable homes.

- The government has announced a £1 billion ECO+ initiative existing housing stock. Around 80 per cent of the funding will be made available to households occupying homes with an energy performance certificate (EPC) rating of D or below, and who are in the lower council tax bands.

- A task force aiming to help deliver 30,000 net zero social rented homes across Greater Manchester by 2038 has had its first meeting. The Greater Manchester Truly Affordable Net Zero Homes (TANZ) Task Force, brings together private and public sector partners to address barriers to net zero development.

[Read the full 'Need to Know: Infrastructure commission calls for action to limit future flood risk' article.](#)

(Please note that you will need to register to access these stories in full, although you can 'Register free for limited access.' Visit the website, scroll to the base of the homepage, and note access route within 'Subscription and Registration').

Case Study: Creating a park on a city site

- The new park at the heart of Manchester's emerging Mayfield regeneration scheme has been created to respond to the aspirations of local people and delivered sustainably, finds the author of this article.

There's a new park in Manchester and it's the first to be created in the city centre for more than a century. The park is located in the emerging district of Mayfield, a new mixed use quarter being delivered next to Piccadilly station by Mayfield Partnership, a public-private joint venture of London and Continental Railways (LCR), Manchester City Council, Transport for Greater Manchester and developer U+I, part of Landsec.

Over the course of a decade or more, the 24-acre site – which through its history has been home to a historic textile print and dye works, a station with a parcel depot – is being redeveloped with 1,500 homes, 1.6 million sq ft of commercial space, 300,000 sq ft of retail and leisure space and around 14 acres of public realm. Industrial heritage is being retained and re-used, while the River Medlock crossing the site but concealed by buildings and partially culverted some 50 years ago, has been uncovered, restored and now meanders through the new 6.5 acre park.

Challenges

Creation of the park was enshrined in the strategic regeneration framework (SRF) established by Mayfield's public sector partners,

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with the private sector partner later joining the team and “supporting, embracing and delivering” on the objective, says Mike Harrison, delivery director at U+I. He continues, “The 6.5 acres of the part create a central place, around which to draw and grow development, with Mayfield being the catalyst.”

Rather than provide lead landscape architect and park designer Studio Egret West with their own ideas of what the part should be, the partnership went out to extensive public consultation and developed a brief around the public’s responses. “People said they wanted somewhere to throw a frisbee or kick a ball and where kids could play. They also wanted somewhere where they could see and experience wildlife,” says Harrison. The park needed to fulfil other functions, serving as a thoroughfare for walkers and cyclists, enhancing urban biodiversity and providing flood attenuation for the River Medlock.

Delivering the project brought its own challenges, particularly as it was happening through the pandemic, which added to the complications of sourcing materials and ultimately resulted in a two-and-a-half-year build programme being reduced to 18 months. While trees were sourced from Europe, orders for plants were placed with local nursery Lanes Landscapes before the contractor was on board, to allow adequate growing time.

Construction, nature and heritage were also a recipe for complexity. “A key challenge was the relationship between the physical works, the environmental consents to work in and around the river, which is a controlled waterway, and dealing with the things that we found, as we had to do a full archaeological dig,” recalls Harrison. “There was significant archaeological interest in the Victorian heritage as the site is a birthplace of the Industrial Revolution, and we had to make sure that was suitably recorded before being covered up.”

Solutions

The park, which opened in September, comprises a series of zones, including a children’s play area, a riverside walkway and a biodiverse ‘wildscape’. The play area incorporates such features as crawl tunnels and wheelchair accessible play equipment and is formed around six chimney-shaped towers, designed and built by a local company and inspired by Manchester’s industrial heritage.

Outcomes

The park is now well used and enjoyed by local residents and visitors and is reducing the risk of downstream flooding from the River Medlock.

Recycling and reuse of materials during construction has saved more than 240 tonnes of CO₂ and delivery has provided learning in how collaborative responses to challenges can help unlock

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opportunities for reuse and efficiency and ultimately generate sustainable value.

Read the final specifications and Case Study entitled, 'Creating a park on a city site' in full.

(Please note that you will need to register to access these stories in full, although you can 'Register free for limited access.' Visit the website, scroll to the base of the homepage, and note access route within 'Subscription and Registration').

Analysis: Addressing damp and mould in rented housing

- Calls to radically change the way landlords respond to damp and mould in their homes have turned to action in the wake of the death of Awaab Ishak, writes the author of this article.

The death of two-year-old Awaab Ishak as a result of prolonged exposure to mould in his family's Rochdale homes was a tragedy that came into the national spotlight in November with the coroner's verdict. The events surrounding his death has also highlighted broader issues around living conditions in social housing and tenants' struggles to seek redress.

In a statement to parliament following Ishak's death, housing secretary Michael Gove said, "Every single person in this country, irrespective of where they're from, what they do, or how much they earn, deserves to live in a home that is decent, safe and secure". The English Housing Survey, which assesses the quality and condition of housing, found in 2020 that private rented homes were more likely to have problems with damp than other tenures, while in social housing, damp was prevalent in 5 per cent of local authority homes and 5 per cent of housing association homes.

Damp and mould issues have already attracted attention from activists, the media and the Housing Ombudsman, with the latter publishing a report, **Spotlight on: Damp and mould. It's not lifestyle**, in October 2021. As its title suggests, the report highlighted concerns that landlords were inferring blame on residents for mould, using language that suggested lifestyle choices and behaviours were responsible.

The report included a look at the 410 damp and mould complaints in social housing that the Housing Ombudsman investigated as part of its casework from April 2019 to March 2021. It found that 56 per cent of these cases resulted in findings of maladministration against the social landlords, with the ombudsman making 501 orders to put something right. Its broader research spanning 142 landlords concluded that local councils and landlords covering higher density urban areas with a greater prevalence of flats converted properties had the highest maladministration rate. The overall findings prompter Housing Ombudsman Richard Blakeway to call for "changes in culture, behaviour and approach".

[Back to top](#)**Action for change**

Fast forward a little over a year from the publication of the ombudsman's report and housing secretary Michael Gove has announced a string of measures to drive change in response to Ishak's death.

There have been direct consequences for the landlord of Ishak's family home, Rochdale Boroughwide Housing (RBH). The landlord will no longer be awarded the £1 million it was set to receive from the government's Affordable Homes Programme (AHP) for 2021 to 2026, or receive new AHP contracts for new homes, until the Regulator of Social Housing has concluded its own investigation and RBH can demonstrate it is a responsible landlord.

The housing secretary has sent a clear signal to social landlords across the sector, writing to six social landlords that have received severe maladministration judgements from the Housing Ombudsman: Clarion, Southern Housing Group, Onward Homes, Catalyst, PA housing and Johnnie Johnson Housing.

Further information and read the article, 'Addressing damp and mould in rented housing' in full.

(Please note that you will need to register to access these stories in full, although you can 'Register free for limited access.' Visit the website, scroll to the base of the homepage, and note access route within 'Subscription and Registration').

Advice: Integrating schools into mixed use developments

- Including a school as part of a mixed-use development can bring vitality to a scheme, but it's important that the various uses are carefully integrated, finds the author of this article.

Schools are not the first choice for many developers looking to do a mixed-use scheme, but they can bring vitality to a neighbourhood or a single site. "A new or replacement school is sometimes required as part of a development and developers should see this as an opportunity to add a special focus to their schemes," says James Scott, strategy director at developer Urban&Civic. "However careful consideration is needed to ensure that the right level of integration and separation between the different uses is achieved," says Paul Turpin, UK learning+ lead at architect Arcadis IBI Group.

Here are five key points to consider when making schools part of mixed-use neighbourhoods

1. Use schools as a focus for new development

"Some developers when they take on a site that includes a requirement for a school want to tuck it away on the edge,"

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says Scott. “They are missing an opportunity as many people are looking for good schools when they move to an area,” he says, adding that “if it’s well designed, it attracts housebuyers.” He emphasises that, “The school needs to be highly visible within a development and well connected with other nearby uses”. Rebecca Britton, partnership manager at Urban&Civic, says, “Sustainable travel routes and clear design lines will encourage walking and cycling from across the sites.”

2. Design the development around the school

Smaller primary schools tend to take up the lower two or three storeys of a mixed-use development “Many Inner-city schools are on the main roads, but it’s important that they face away from them,” says Henley, whose scheme for Hackney New Primary School and 333 Kingsland Road in east London won the Neave Brown Award and was shortlisted for the Stirling Prize this year.

3. Ensure privacy for the school

“Flats overlooking the school can raise concerns among the education authorities, particularly for primary schools,” says Henley. This can be minimised with various design features. “There are no balconies looking over the school; they are only on the other road side,” he says. “The windows on the flats overlooking the school are set into the building’s structure to make it more difficult for the residents to look down on the school.”

4. Provide social facilities around the school.

It’s important to provide public space in front of a primary school. “The parents or carers waiting for their children need somewhere to socialise and to wait when picking up their children,” points out Henley. That space doesn’t have to be grand. “The Hackney Primary school scheme includes continuous benches built into the outside walls of the school as a design feature,” says Henley.

5. Build a partnership with the education providers

Bringing forward a school as part of a development means the developer’s design team working with a large number of stakeholders, including the education authority and possibly staff and representatives from the free school who are going to occupy the new school building.

Further information and read the article, ‘Advice: Integrating schools into mixed-use developments’ in full.

(Please note that you will need to register to access these stories in full, although you can ‘Register free for limited access.’ Visit the website, scroll to the base of the homepage, and note access route within ‘Subscription and Registration’).

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Education Latest [November 2022]

[Access the latest Education news](#)

[Three top tips on making an apprenticeship work](#)

- Norfolk apprentice shares top tips on making it work. An 18-year-old plumber has shared her top tips for new apprentices on how to make sure it is successful.

Sophie Maguire, from Norwich, said she “jumped at the opportunity” of learning something practical and applied for more than 50 **apprenticeships – [paid schemes which combine practical training in a job with study](#)**.

See also: UCEM student, Turner C (2022) ‘**[Apprentice shares experience as she learns](#)**’, *Built Environment Journal*, London: RICS. #BuiltForApprenticeships #BuildingControl #Apprentice

BBC Latest – Climate [December 2022]

[Access the BBC News, Latest Climate reality check](#)

[Will the Cumbria coal mine threaten UK’s climate goals?](#)

The government has announced the first deep coal mine in 30 years will go ahead in Whitehaven.

The government has approved the UK’s first new deep coal mine for 30 years. The Cumbrian plant will provide fuel for steel-making.

Supporters of the mine, near Whitehaven, claim it will create much-needed jobs, but critics argue that it undermines the UK’s climate change targets.

Related article:

- [A really simple guide to climate change](#)

Also: Please visit the ‘**[Sustainability Hub](#)**’ within *Knowledge Foundations* for further information and related articles.

BBC Latest - Coronavirus – latest developments [December 2022]

Coronavirus pandemic

- China abandons key parts of zero-Covid strategy,
- Sunak ‘shocked’ by allegations about Michelle Mone,
- Why have Covid contracts been challenged?,
- NZ places child in anti-vax blood case in custody,
- Inquest to examine UK’s first child Covid-19 death,
- Man gets first double lung transplant due to Covid,
- Young artist pants the pain of long Covid, and
- Covid-19 in the UK.

[Access the BBC News, Latest Coronavirus pandemic news](#)

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Related Link(s): Coronavirus: Why some people want to keep working from home –

[Access the BBC News article entitled, ‘Coronavirus: Why some people want to keep working from home,’ in full.](#)

Also:

[Living with Covid plan to restore our freedom - PM](#)

[What are the UK’s ‘Living with Covid’ plans?](#)

The evolution of building surveying education during COVID-19

- In January and February 2020, as the pandemic was starting to gain momentum and spreading around the globe, universities in the UK were beginning to consider how to react. As a sector, UK higher education is relatively familiar with web-based methods of communication, teaching, and learning.

In fact, the University College of Estate Management (formerly the College of Estate Management) and the traditional home of RICS correspondence courses, operates their business totally online.

A lot of universities operate a Virtual Learning Environment (VLE) which allows them to communicate with their students and provides the opportunity to interact with them in terms of online courses and assessments, and as a depository for learning materials.

This is allowing the students to revisit the materials to embed or reinforce their learning or to catch up if a session was missed. Common VLE’s include Blackboard, WebCT, and Moodle. Their functionality and features are all relatively similar.

Although the physical libraries were closed, universities operate electronic libraries which offer access to a large number of electronic databases, and a growing number of books and journals, ensuring that the students and staff, can continue to access the majority of relevant information for their studies and research.

[Further information and access to the article ‘The evolution of building surveying education during COVID-19’, in full.](#)

[Access further information about UCEM’s Supported Online Learning > e-Library.](#)

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

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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)

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)

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

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

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

Related links:

What will the post-pandemic office look like? - With remote working seemingly here to stay, anecdotal evidence suggests that firms are looking to cut office space by up to 40%. How is the workplace having to evolve to remain relevant?

[Read the *Construction Management* article, ‘What will the post-pandemic office look like?’ in full.](#)

‘Generation Work from Home’ – the impact of default flexible working - The UK government has announced proposals to make flexible working a ‘day one’ right for employees, as part of reforms to the Flexible Working Regulation 2014.

[Read the Shoosmiths article, ‘Generation Work from Home’ – the impact of default flexible working’ in full.](#)

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



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Emerald Publishing, one of the UCEM e-Library subscription services, have brought together a number of research

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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, but they may also provide relevant context to how the world reacted to other previous Coronavirus outbreaks (notably SARS) and epidemics.

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

Covid-19 and the impact on business

HSTalks

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HS Talks - Interviews with academics and experts from the business community, on the impact of the Covid-19 pandemic, are now available in the HS Talks 'Business & Management' collection that UCEM subscribes to.

1. **[The impact of Covid-19 on organisations](#)**
2. **[The impact of Covid-19 on psychological safety in the workplace](#)**
3. **[The impact of Covid-19 on cybersecurity and data privacy](#)**

Latest News: *Construction Management (CM)* (formerly *Construction Manager*) [December 2022] **Work at height regulations at risk of being scrapped**

- The government could scrap the UK's **Work at Height Regulations** at the end of 2023 unless campaigners can convince ministers to retain them.

That is the warning from the **Access Industry Forum (AIF)**, which represents the 10 principal trade associations and federations involved in work at height.

The 2005 Work at Height Regulations extended protection to people in all industries who work at height.

Falling from height is still the most common cause of workplace fatalities – there have been 683 since 2005. Provisional figures for 2021/22 show that of 30 fatal accidents involving construction workers, 13 were falls from height.

Following Brexit, the regulations governing work at height are covered by the **Retained EU Law (Revocation and Reform) Bill** which is currently passing through Parliament (see publication date). The Bill seeks to remove EU-derived laws that remain

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On the UK statute book after Brexit. It proposes to 'sunset' more than 2,400 laws, one of which is the Work at Height Regulations.

If the Bill passes, the laws will be axed automatically on 31 December 2023 unless the government takes action to save individual regulations.

Access and read the article in full, Gerrard N (2022) '[Work at height regulations at risk of being scrapped](https://constructionmanagement.co.uk/work-at-height-regulations-at-risk-of-being-scrapped/)', *Construction Management* [online], 8 December. Available at: <https://constructionmanagement.co.uk/work-at-height-regulations-at-risk-of-being-scrapped/> [accessed 9 December 2022]

Latest News: Global Construction Review (GCR) [December 2022]

Uganda's rail upgrade gets \$300m loan from African Development Bank

- The African Development Bank (AfDB) will lend Uganda \$301m to upgrade the Kampala-Malaba Metre Gauge Railway (MGR) to link the landlocked country to Kenya and its port of Mombasa.

AfDB president Akinwumi Adesina **said** railways like the MGR were needed to realise the "immense agricultural and economic potential" of landlocked African countries.

He said they could link agricultural processing zones to logistics hubs. "Railways lines should not simply connect ports to mines," he said, adding the project would benefit 1.2 million people, 40% of them women."

Access and read the article in full, Rogers D. (2022) '[Uganda's rail upgrade gets \\$300m loan from African Development Bank](https://www.globalconstructionreview.com/ugandas-rail-upgrade-gets-300m-loan-from-african-development-bank/)', *Global Construction Review* [online], 8 December. Available at: www.globalconstructionreview.com/ugandas-rail-upgrade-gets-300m-loan-from-african-development-bank/ [accessed 9 December 2022]

Shoosmiths UK law firm Insights and Articles

- Read the latest insights, articles, and commentary from Shoosmiths UK law firm or explore their content library, or listen to the latest podcasts **[December 2022]** surrounding sectors such as **Real Estate** that include:

Legal 500 UK Green Guide

- Shoosmiths has been ranked as a recommended firm in the newly published **Legal 500 Green Guide UK**. The Guide recognises firms with a clear focus on sustainability, climate change mitigation and supporting the green transition.

Also- Is retrofit or redevelopment the answer? [podcast]

The top five planning law cases you need to know

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How developers can prepare now for the Building Safety Act series:

How developers can prepare now for the Building Safety Act: Part 1 of 3

The Building Safety Act received Royal Assent on 28 April 2022. With aspect of the new regime unclear, this series of articles looks at what steps developers can take now.

How developers can prepare now for the Building Safety Act: Part 2 of 3

In Part 2, Shoosmiths discuss the dutyholder regime and look at the steps developers can take now to prepare.

How developers can prepare now for the Building Safety Act: Part 3 of 3

In this final part of this series, Shoosmiths take a look at the new gateway regime for higher risk buildings.

Keywords – Real estate, ESG, New How Perspectives, New How,

The future of build-to-rent market Real Estate Podcast series Podcast – Government policy BTR (Build to Rent)

The future of the BTR market from Shoosmiths' Living team:

Podcast series #1 – The future of BTR (Build to Rent)

Issues discussed in this podcast include:
Performance of the sector; Rent collection rates; Challenges of lockdown restrictions; How buildings and amenity space will change as a result of the pandemic; and where the market is going.

Podcast series #2 – The future of BTR (Build to Rent)

Issues discussed in this podcast include:
Ongoing attractiveness of the sector; Top three things to look for in a BTR scheme; Future challenges for BTR; The role of technology, and BTR housing.

Podcast series #3 – The future of BTR (Build-to-Rent)

In this podcast, the last in this series, issues discussed include:
Planning reforms; Permitted development rights; Rise of residential in the high street; Fire Safety; and Rent controls / regulations.

The Pathway to Lifelong Education: Reforming the UK's Skills System

- The UK has a longstanding skills problems which is impacting on economic growth. Adult participation in learning has declined, particularly among part-time students, while fewer people in work are taking up training to reskill or upskill. More

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generally, there is a shortfall in vocation and higher technical qualifications.

In this first report, with Ashley Wheaton, Principal, University College of Estate Management acknowledged as one of the contributing experts, the Lifelong Education Commission seeks to recommend how the barriers to adult learning can be removed; what future investment is needed to support this; and what change is needed to ensure the maximum flexibility that will benefit learners and deliver on the promise of a whole system change for lifelong education.

The Report makes a series of recommendations for reform, including:

- A single source of careers advice, to 'professionalise' and regulate careers information, advice and guidance
- Means-tested Maintenance Grants for learners over and above the Lifelong Loan Entitlement, in order to subsidise costs and encourage uptake, particularly among those for whom debt is a barrier
- The abolition of the Equivalent or Lower Qualification (ELQ) rules, to support retraining at higher levels
- Extending the Apprenticeship Levy to cover a wide range of high- quality training, including short modular courses, in order to provide additional flexibility and incentivise employer investment in skills training
- Stronger HE-FE partnerships to provide integrated pathways to higher-level skills; and alignment with industry and online providers to enable better coordination between schools, colleges, universities, and employers.
- Reform of the regulatory framework to simplify the jurisdiction between multiple qualification bodies;
- Learning lessons from Scotland, where 'articulation agreements' offer clear routes between FE and HE allowing students with Higher National Certificates and Diplomas to access the second or third years of degree programmes.

Access the summary and report, 'The Pathway to Lifelong Education: Reforming the UK's Skills System' in full.

Related Links:

FE news.co.uk (2021) '[Reforming the UK's Skills System – First Report from the Lifelong Education Commission](#)'[online]. Available at: www.fenews.co.uk [accessed 8 October 2021]

Learning and teaching reimagined - Exploring the 2020 experience as well as the changing aspirations of the nature and shape of learning and teaching for the future.

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Maguire D, Dale L, and Pauli M (2020) [*Learning and teaching reimagined: a new dawn for higher education?*](#) Bristol: JISC

New guidance from CIRIA - Construction Industry Research and Information Association

CIRIA is pleased to announce [December 2022] new [free CIRIA practice guidance](#) and publications that include:

[*Code of practice for property flood resilience \(C790\)*](#) –

This guidance provides confidence on the use of the standards within the code of practice that provides a benchmark for those procuring and delivering property flood resilience (PFR).

[*The Management of advanced numerical modelling in geotechnical modelling \(C791\)*](#) -

This guide provides a framework for those who oversee the process, provide the information needed for this task and use the results of the numerical modelling.

[*Methodology for quantifying the benefits of offsite construction \(C792\)*](#) -

This guidance proposes a framework for comparing construction approaches, making it possible to keep consistent records across projects and identify all the possible benefits available.

Other guides include:

[*Retrofitting ground gas protection measure \(C795\)*](#) [*Grouted anchors and soil nails \(C794\)*](#)

Grenfell Tower Inquiry – latest developments

- The Grenfell Tower Inquiry was created to examine the circumstances leading up to and surrounding the fire at Grenfell Tower on the night of 14 June 2017.

[Latest update](#) [December 2022]

[End of Phase 2](#) – The Inquiry has concluded hearings for Phase 2 and is closed to the public. The Inquiry Panel will continue preparing the final report.

Phase 1 Report – The Inquiry has published its report on Phase 1 of its investigations.

October 2022 newsletter – The Inquiry has published an update on its work.

Also: Latest from the Inquiry

Latest update from the Inquiry [December 2022] – The Inquiry has published an update on its next community drop-in session.

This update provides a digest of:

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- **November 2022 Newsletter** – The Inquiry has published an update on its work.
- **Closing remarks from the chair** – The Inquiry has published the transcript of the Chair’s closing remarks for the end of Phase 2 hearings.
- **End of Phase 2 Hearings** - The Inquiry has published an update on the end of Phase 2 hearings.

[Read further information from the ‘Grenfell Tower Inquiry’ website.](#)

Related Links:**Cladding: Panels failed fire tests 13 years before Grenfell -**

Leaked test results suggest the government and construction industry had early evidence of the dangers posed by cladding, 13 years before the Grenfell Tower fire.

Panels, commonly used on buildings in the UK, failed fire tests carried out in 2004. The Inquiry venue at 13 Bishop’s Bridge Road, London, W2 6BU. The results marked “Commercial in confidence,” were circulated within an industry advisory group.

They were recently passed to the BBC (see publication date) and, until now, never made public.

Hundreds of thousands of flat owners are now threatened with large bills because of construction materials which pose a risk in fires.

The 2004 results were among the first from a British test of full-scale building systems, developed in the late 1990s when there were growing concerns in Parliament about the risks of cladding.

The tests were part of research commissioned the then Labour government to determine what standards building systems should have to meet.

Symonds T (2021) [‘Cladding: Panels failed fire tests 13 years before Grenfell’](#), *BBC News* [online], 16 September. Available at: www.bbc.co.uk/news/uk-58584348 [accessed 23 February 2022]

Related Topics

-  [Construction industry](#)
-  [UK fire safety](#)
-  [Grenfell Tower fire](#)
-  [Grenfell Tower Inquiry](#)

Also:

[RICS Fire safety Hub \[online\]](#) - containing advice for the public, building owners, landlords, corporate occupiers and RICS professionals and information on fire safety on buildings with external wall systems.

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Government details fire safety-related changes to planning system

- The government has released details of new requirements in the planning system to bolster fire safety in high-rise residential buildings, in response to the Grenfell Tower Fire.

The changes come in the Ministry for Housing, Communities and Local Government's (MHCLG) plans to introduce '[planning gateway one](#)', which it said would deliver on one of Dame Judith Hackitt's recommendations following her independent review of Building Regulations and fire safety.

The new requirements aim to ensure fire safety matters as they relate to land use planning are incorporated at the planning stage for schemes that involve high-rise residential buildings.

The changes, which come into effect from **1 August 2021** will:

- involve the Health and Safety Executive (HSE) becoming a statutory consultee before permission is granted for development which involves or is likely to involve a high-rise residential building.
- require relevant applications for planning permission to include a fire statement to ensure applicants have considered fire safety issues as they relate to land use planning matters such as layout and access.
- help inform effective decision-making by local planning authorities or the secretary of state so that those decisions reflect and respond to the needs of the local community.

The new requirements will be introduced by making amendments to the Town and Country Planning (Development Management Procedure) (England) Order 2015.

As announced in the Queen's Speech (11 May), the Building Safety Bill is also expected to be introduced this year, which will establish a new building safety regime in England.

[Further information and access to the *Construction Manager* article, 'Government details fire safety-related changes to planning system,' in full.](#)

[RIBA Stirling Prize 2021](#)

The RIBA Stirling Prize is the UK's most prestigious architecture award. The award is given to the architect of the building thought to be the most significant of the year for the evolution of architecture and the built environment.

RIBA Stirling Prize shortlist 2021 included: (i) [15 Clerkenwell Close](#), (ii) [Cambridge Central Mosque](#), (iii) [Key Work Housing, Eddington, Cambridge](#), (iv) [Tintagel Castle Footbridge](#), and (v) [Windermere Jetty](#), and the **WINNER**,

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announced on 14th October 2021 was (vi) [Kingston University London – Town House](#), - essentially a library, but designed as a building for the whole community with cafés, an outdoor reading room roof terrace and a performance space. @KingstonUniLib by @graftonarchs

Skills Agenda: Concerns for Skills Shortages in the 21st Century: A Review into the Construction Industry, Australia

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.



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

Tomorrow's Engineers



© EngineeringUK 2021

Tomorrow's Engineers brings together resources and evidence to support the engineering community in getting the most out of their engagement activity. It includes information and guidance on a range of topics curated from across the STEM community. Developed by EngineeringUK, the website is for anyone who funds or delivers engineering engagement activities and is designed to help improve the engineering community's collective impact.

[Access the Tomorrow's Engineers website](#)

Women in construction: building a career in a challenging environment

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

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

Also: Access - RICS President Clement Lau's article, entitled, ['Women are not equally represented in our sector'](#), RICS *Modus* [online].

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RICS Market surveys – leading indicators in the real estate industry

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

- **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.
- **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.
- **UK & Global Construction Monitor** – The leading sentiment indicator of the construction markets.
- **UK Facilities Management Survey** – The UK Facilities Management survey is a quarterly indicator of activity and sentiment across the facilities management industry.
- **UK & Global Commercial Market Survey** – The global commercial property monitors are leading indicators of conditions in commercial property occupier and investor markets around the world.
- **UK Economy and Property Market Update** – The Economy and Property Market Update is a new quarterly assessment of key macro, real estate and construction trends.
- **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.

Note: Further updates are provided within the ‘Latest Property and Construction Statistics’ section of *Knowledge Foundations*.

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.

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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.](#)

GOV.UK, National Statistics - UK House Price Index [Last updated August 2022]

- The UK House Price Index is a National Statistic that shows changes in the value of residential properties in England, Scotland, Wales, and Northern Ireland.

The UK House Price Index (UK HPI) captures changes in the value of residential properties. The UK HPI uses sales data collected on residential housing transactions, whether for cash or with a mortgage.

Properties have been included:

- In England and Wales since January 1995
- In Scotland since January 2004
- In Northern Ireland since January 2005

Data is available at a national and regional level, as well as counties, local authorities, and London boroughs.

The summary report contains:

- Headline statistics
- The economic statement
- Price changes
- Sales volumes
- The property status
- The buyer status for Great Britain (excludes Northern Ireland)
- The funding status for Great Britain (excludes Northern Ireland)
- Housing transactions distributions

[Read the GOV.UK, National Statistics: 'House Price Index: reports', Last Updated 17 August 2022' in full.](#)

Contents:

- June 2022
- About the UK HPI, and
- Archived reports and data.

Related Content:

- UK House Price Index: data downloads April 2022
- UK House Price Index for April 2022
- UK House Price Index: data downloads February 2022
- UK House Price Index: reports 2022
- UK House Price Index

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Tackling mental health and wellbeing within the construction industry



© MHFA England

The construction industry reports some of the highest levels of workplace mental ill health.

Over the last three years (see publication date) Mental Health First Aid (MHFA) England has been working with Building Mental Health, the Construction Industry Training Board (CITB) and the Lighthouse Club Construction Industry Charity to create a freely available, industry-wide framework and charter to tackle the mental health crisis in the construction industry.

[Find out more about the social value of the programme](#)

Related Links:

Q&A with Harold Samuel Research Prize (HSRP) recipient, Dr Katharine van Someren

Research is a fundamental aspect of university life. It is used to gain a further understanding for assignments and dissertations and by academics to explore topics that will broaden our understanding of society and the world around us. The HSRP is an annual opportunity for those interested in the building environment to submit a research proposal on a topic that could offer sector-changing insights.

What is the relationship between job and financial security and mental health in the construction workplace? UCEM spoke with HSRP recipient Dr Katharine van Someren, about her research on UK construction workplace poverty. You can access [UK construction workplace poverty: the impact of financial and job insecurity on mental health](#) on UCEM's publication page to learn more about Katharine's research.

Access the article '[Q&A Harold Samuel Research Prize \(HSRP\) recipient, Dr Katharine van Someren](#)' in full.

UCEM mental health strategy

UCEM published its first mental health strategy on 10 May 2021.

The strategy is designed to benefit both UCEM students and staff, having been written with input from both stakeholder groups.

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At the core of the document is the vision which states: UCEM will take a whole institution approach to develop one community that enables students of all levels along with staff to prioritise mental health and wellbeing.

There are five strategic aims supporting this vision which are:

1. to create a supportive whole university community that promotes positive mental health, and ensures mental health is a key strategic priority.
2. to ensure the UCEM community is informed and aware of the importance of good mental health and works to tackle the stigma surrounding mental health.
3. to ensure appropriate and timely support is provided to those who need it.
4. to develop links with external support services and stakeholders
5. to use data to evaluate and monitor the effectiveness of mental health interventions and inform future strategic development.

For more details, take a look at [**UCEM's mental health strategy document.**](#)

Access the article '[**UCEM launches mental health strategy**](#)' in full.

Understanding Mental Health in the Built Environment

In May 2020, the CIOB published their report on Understanding Mental Health in the Built Environment. The report, which surveyed people across the globe, presented harrowing statistics of high numbers of workers experiencing extreme levels of stress over a prolonged period, with many people reporting that they had considered taking their own life in 2019.

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, & 'CIOB surveys the sector to gather data on mental health & stress'](#)

How can buildings have positive impact on wellbeing?

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

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

[**Read the *Construction Manager* article entitled, 'Samaritans to work with roofers on mental health' in full.**](#)

Sustainable outcomes for buildings

The Royal Institute of British Architects (RIBA) has published

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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,

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,

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- 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.](#)

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](#)

New RIBA Plan of work 2020

RIBA Plan of Work 2020. This blog takes a look at the new RIBA Plan of Work 2020.

What is the RIBA Plan of Work? The Royal Institute of British Architects (RIBA) first published the RIBA Plan of Work.

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in 1963. It originally provided a matrix to show the roles of participants in the design and construction processes.

It has since been updated in several editions, most recently in 2020. This has allowed it to adapt to the complexity of modern projects, industry demands and legislative and regulatory requirements.

What changed in 2020? In 2020, key changes were made to reflect the importance of sustainability and Building Information Modelling (BIM) in construction. The Plan of Work now also incorporates issues such as digitisation of the industry, Modern Methods of Construction, ethical issues, the value of aftercare and timing relating to planning applications and procurement.

This has included restructuring and renaming of the work stages from the 2013 Plan of Work:

0 – Strategic definition – no change

1 – Preparation and briefing – brief amended to briefing

2 – Concept design – no change

3 – Spatial coordination – formerly Developed design

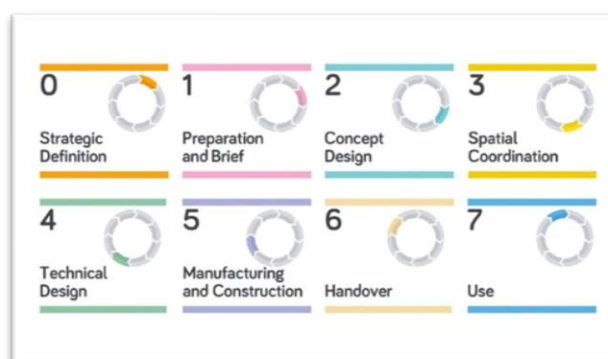
4 – Technical design – no change

5 – Manufacturing and construction – formerly Construction

6 – Handover – formerly Handover and close out

7 – Use – formerly in use

RIBA Plan of Work 2020:



© RIBA 2020

Source: Royal Institute of British Architects (2020) 'RIBA Plan of Work'

Note: The author of this blog, Jen Lemen-Hogarth is an Associate Tutor – UCEM and Partner – Property Elite.

[Access Property Elite's, Building Better Property Professionals, 'New RIBA Plan of Work 2020' \[Blog\], in full](#)

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Autodesk and CIOB map the digital construction journey

Autodesk and the Chartered Institute of Building (CIOB) have prepared an infographic to help construction businesses visualise their position on the digital journey.

[Access more information, view the infographic and read the article, entitled 'Autodesk and CIOB map the digital construction journey' in full.](#)

[Access further information from CIOB 'Digital Construction'](#)

- Digital technologies are now an integral part of our built environment. The choice is not when or if built assets will use technology, but rather how much will be used.

Building Information Modelling (BIM)

[UK BIM Framework – BIM Standards, Guides and Resources](#) - the overarching approach to implementing BIM in the UK, brought together by UK BIM Alliance, BSI and CDBB. The guidance is structured as indicated below:

Guidance Part 1 and **Guidance Parts A-F** support the implementation of the overall published ISO 19650 series. **Guidance Part 2 and 3** pick up on content specific to ISO 19650-2 and ISO 19650-3 respectively. Additional **guidance** is also available as part of the **UK BIM Framework** to support the transition to ISO 19650 and Government Soft Landings

[Access UK BIM Framework - Resources](#)

[Latest BIMPlus News and Projects](#)

[December 2022] –

- **Projects – Applying BIM to asset management of water and wastewater plants**, 25 November 2022.

- Six years ago (see publication date), Hamilton City Council on New Zealand's North Island began a project to apply BIM technologies and processes to the asset management of its water facilities. Two and half years on from this [first piece about the work](#), Glenn Jowett, technical director, digital engineering advisory, at [design and engineering consultancy Beca](#), brings *BIMplus up to date*.

In 1026, Hamilton City Council's City Waters department embarked on the journey to implement BIM as part of its asset information systems. The existing as-built records of City Waters' assets were assessed as being outdated and in need of improvement. Existing 2D records were accessible, but the accuracy of the information was uncertain. Changes were needed to ensure the as-built information was relevant.

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To centralise and validate as-built information about the existing asset base represents a step forward. Modelling the facilities in 3D offers a digital means of validating and understanding spatial data that 2D drawings cannot offer. 2D drawings cannot be leveraged the same way that data-rich 3D models can.

City Waters began a programme to improve its asset record information. It partnered with Beca to develop as-built records that can be maintained and treated as 'living as-builts'

The programme started in 2018 and is still active today, with scope to:

- Drone map large sites;
- laser scan smaller sites, and with and around all buildings;
- develop a three-dimensional model of each site with components broken down to align with City Waters asset hierarchy;
- Develop a set of as-built drawings for each site;
- Visit sites to identify assets and tag the assets in the 3D models; and
- Reconcile asset data from the City Waters asset database with the 3D models.

Gain access to further information and full access to the project case study article, entitled '[Applying BIM to asset management of water and wastewater plants](#)', BIMPLUS Projects.

Other BIMPLUS Projects include:

- **Projects – Digital's role in Seismic's modular school building success**, 19 September 2022.

- Completed earlier this year (2022), the Seismic school building at the BRE Innovation Park in Watford is a successful demonstration of the benefits of modular construction. But digital had a role to play too.

Gain access to further information and full access to the project case study article, entitled '[Digital's role in Seismic's modular school building success](#)', Stanton, J., (2022) BIMPLUS Projects.

- **Projects – BMW: the ultimate driving machine meets the digital twin**, 25 August 2022.

- Automotive giant BMW plans to have digital scans of all its vehicle plants worldwide completed by early 2023 as part of its digital twin plans.

Gain access to further information and full access to the project case study article, entitled '[BMW: the ultimate driving machine meets the digital twin](#)', BIMPLUS Projects.

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- **Projects – Maber uses Archicad to aid collaboration on medical research facility**, 8 July 2022.
 - Maber used Archicad to engage with the client and to collaborate effectively with the supply chain on the development of a medical research facility at Nottingham Trent University.
- **Projects – Communicating and solving design changes with technology**, 17 May 2022.
 - 80 Goodhall Street is a mixed-use development in west London. Architect airc.design had to respond to some challenging design changes that affected the project in RIBA stages 3 to 5, so it leaned on Archicad to help communicate the changes.
- **Projects – BIM crucial to redevelopment of Bristol's historic print works**, 29 April 2022.
 - The £35m mixed-use redevelopment of the iconic Everard's Printing Works in the historic quarter of Bristol into a four-star, 255-bedroom hotel, alongside new apartments and commercial premises, came with many conditions and considerations. BIM was the only option for the scheme's architect, Edinburgh-based AMA Studio.
- **Projects - Case Study: How a Northern Ireland motorway became a BIM pioneer**, 27 January 2022.
 - Applying the new BIM ISO 19650-3 standard to digitise asset information about a design-build-finance-operate (DBFO) road built 15 years earlier is paying dividends for the Amey Road NI team.
- **Project: 3D visibility key on Piccadilly Lights project**, 17th February 2022.
 - Accuracy and 3D coordination were essential for Swanton Consulting when it was chosen to design the temporary works for a £250m development project that features London's iconic Piccadilly Lights at its core.

Client: Landsec; **Architect:** Fletcher Priest; **Principal contractor:** Wates; **Temporary works designer:** Swanton Consulting.
- **Project: Going digital drives East London brownfield development**, 8 February 2022.
 - Taking a digital approach for the first time helped architecture practice Waugh Thistleton to play a significant part in the successful delivery of a brownfield development near East London's Olympic Park.

[Back to top](#)**BIM in action: 2020's top five projects**

22 December 2020

- Hospitals, housing, hotels: **BIMPLUS** covered case studies of BIM in action in all sorts of construction projects across the world. Given what happened in 2020, it's not surprising that three of the most read case studies focus on hospitals.

2020's top five projects (and all covered within this and previous issues of *Knowledge Foundations*) incl.

1. [Sisk reap rewards of high-tech approach at Wembley](#)
2. [Finland's Hospital Nova uses VR to involve staff in building](#)
3. [NHS Nightingale Hospital, East London – how BIM played its part](#)
4. [Mace uses AI tech on Mayfair project to meet covid-19 safety challenges.](#)
5. [AI tracks work quality at Norway's Stavanger Hospital.](#)

[Access BIM+ that include project entitled, 'BIM in action: 2020's top five projects' available in full.](#)

Related BIM+ Projects

- **(1) Project:** [John Sisk relies on BIM best practice to deliver Malmo data centre](#), 2nd November 2020.

- John Sisk & Son is nearing completion on a data centre project in Malmo, Sweden. Adopting BIM best practice has been crucial to keep construction on programme given a fast-tracked programme amid the Covid-19 pandemic.

The John Sisk & Son team has nearly 40 years of experience in data centre construction and has brought a digital project delivery approach to the Malmo project.

Sisk highlights some significant outcomes:

- The Sisk team-built dashboards that stored live clash trend reports to track progress weekly, resulting in a 50% efficiency increase in the BIM management process compared to traditional, manual methods of construction coordination without the automating power of the cloud.
- The tight integration between BIM 360 Docs, Microsoft Power BI, and Sisk's own "Design Changes Control" dashboards provided the commercial teams with a faster way to visualise the cost and/or schedule impacts, reducing the overall take-off by a potential 40%
- By using BIM 360, the project continued uninterrupted as construction continued in Sweden during the Covid-19 pandemic.

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- **(2) Project: Finland's Hospital Nova uses VR to involve staff in building, 28th April 2020.**

Lead Contractor: The Central Finland Health Care District
BIM Tools: Tridify

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

- **(3) Project: NHS Nightingale Hospital, East London – how BIM played its part, 5th May 2020.**

Client: Barts Health NHS Trust, Royal Free London NHS Foundation Trust

Lead Contractor: Lead Designer: BDF

BIM Tools: Autodesk Revit

- The UK's newest (see publication date) and largest hospital, 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.

- **(4) Project: Mace use AI tech on Mayfair project to meet Covid-19 safety challenges, 1st October 2020**

- Work was already underway on Lodha's No 1 Grosvenor Square flagship project when the lockdown and then social distancing added to the normal construction challenges.

Client: Lodha; Main contractor: Mace

Balancing the many requirements of a building project – cash flow, cost, quality, and timelines – is always a significant challenge for project leadership. The Covid-19 pandemic made the balancing act even more intense, costing projects valuable time at the start of lockdown and requiring adjustments to ensure the health and safety of all personnel on site as production restarted.

- **(5) Project: AI tracks work quality at Norway's Stavanger Hospital, 21st June 2020.**

Client: Stavanger University Hospital

BIM Tools: 100% International open standards, compatible with Revit, ArchiCAD, Solibri and others

- Oslo-based BIM developer Imerso has been given responsibility to monitor work progress in one of the biggest public construction projects in Scandinavia.

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

Latest BIM news – 10th annual BIM report 2020 available

NBS 10th National BIM Report 2020 - The 2020 annual BIM report marks the 10th year of recording over 1,000 industry professional's view about BIM. It illustrates how usage and perceptions of BIM have changed since 2011, progress made as an industry, and anticipated changes in the next decade.

Construction Information Service (CIS) Insights

The latest edition [**December 2022**] of NBS CIS *Insights* focuses on – **Concrete**, and covers:

- Pros and cons,
- Admixtures and reinforcements, and
- Defects and cracking.

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Property and Construction Statistics

Latest Property and Construction Statistics from RICS:

- Input from RICS Professionals ensure RICS surveys are leading indicators in the real estate industry.

Latest: Market Surveys - RICS [**December 2022**]**UK Economy and Property Market Update, November 2022**

- Macro challenges shift real estate dynamics.

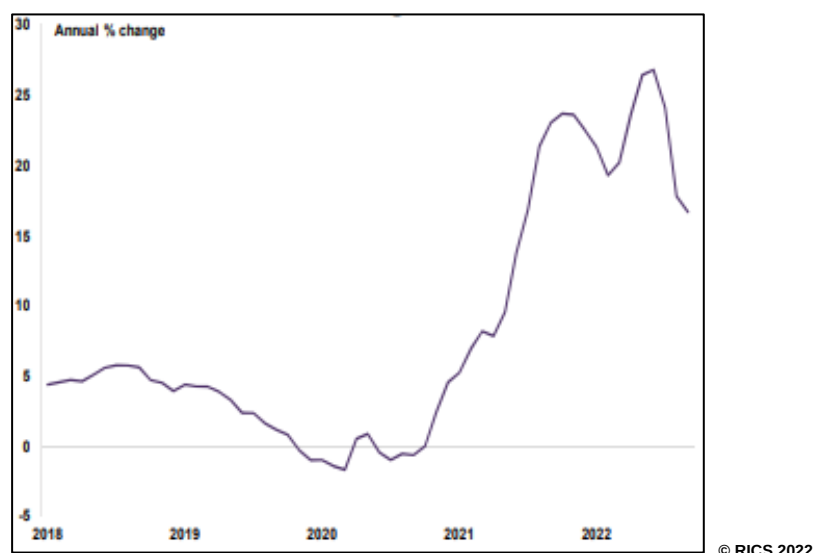
Summary: The increase in interest rates sanctioned by the Bank of England to try and curb inflation pressures has begun to take its toll on both the residential and commercial property markets. Transaction activity is already beginning to wane and price declines are viewed as likely with further monetary tightening probable over the coming months (see publication date) notwithstanding the more restrictive fiscal stance. For the construction sector, infrastructure is still seen as likely to provide some momentum in what is inevitably going to be a more difficult environment with credit becoming less readily available.

Construction Sector – The cost and availability of building materials continue to be viewed as major challenges for the construction industry with around four-fifths of respondents to the Q3 RICS Construction Monitor identifying these issues as limiting activity. Some comfort may, however, be drawn from the latest BEIS data on costs (chart 10); this shows that the annual inflation rate of construction materials was 16.7% in September 2022, which is a 3rd consecutive fall from the recent peak of 26.8% in June. However, this rate of increase will inevitably continue to be a source of discomfort particularly for SME contractors on fixed

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price contracts. This is partly captured in the headline profit margins metric from the RICS dataset. It suggests that a net balance of 23% of respondents saw a contraction in margins and that the pressure appears to be intensifying (-15% in previous three-month period).

Chart 10: The rate of price growth of building material is beginning to slow but remains well in double digits.



Source: RICS Economics Research: *RICS UK Economy and Property Market Update* (November 2022), London: RICS, p5 - Chart 10.

The latest official data for the construction output indicates that it is around 6% up on a year ago and 2.5% above pre-pandemic levels. But the workload momentum does now appear to be slowing according to the RICS sentiment data, to a greater or lesser extent, pretty much across the board.

[Read the full piece of research 'RICS UK Economy and Property Market Update, November 2022'](#)

Also: [UK Economy and Property Market Chart Book, Q4 2020](#)

- Agreed sales rise over the month with expectations modestly positive regarding the near-term outlook

UK Residential Market Survey: [November 2022](#)

- Sales market activity continues to fall, now leading to a softening in house prices.

- Indicators on buyer demand, agreed sales and new instructions remain negative
- National house prices begin to fall, and
- Both price and sales expectations point to these trends being sustained over the near-term.

The November 2022 *RICS UK Residential Survey* results show overall activity continues to weaken across the sales market, with higher interest rates and a difficult macroeconomic outlook both

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taking their toll on buyer sentiment. As a result, house prices have begun to pull-back according to the latest feedback, a trend that is expected to continue over the near-term at least.

Looking at buyer demand, the headline net balance for new buyer enquiries came in at -38% in November, marking the seventh successive negative monthly reading for this indicator. Although the latest reading is not quite as downbeat at -53% seen last month (see publication date), it still suggests momentum behind purchaser demand remains weak.

For agreed sales, a national net balance of -35% of respondents reported a decline over the latest survey period. Again, this is marginally less negative than the reading of -45% posted in October, but continues to signal a contraction in sales volumes nonetheless. Moreover, respondents across all parts of the UK cited a decline in agreed sales, the second consecutive month in which this has been the case. Going forward, the three and twelve-month sales expectations series returned net balances of -44% and -38% respectively, with both pointing to a further fall in sales activity.

Alongside this, the survey's measure of new instructions coming onto the sales market remains in negative territory, posting a net balance of -9% at the aggregate level. That said, given the drop-off in sales volumes of late, average stock levels on estate agents books ticked up marginally in November (moving from 34 to 35 properties). Looking ahead, the near-term pipeline for listings appears subdued, with a net balance of -54% of respondents noting that the number of market appraisals undertaken over the month was below the comparable period last year (2021).

With respect to house prices, a net balance of -25% of survey participants are now seeing a fall at the national level. This is down from a reading of -2% last month and represents the weakest figure for the price growth gauge since May 2020. Furthermore, prices are reportedly retreating across most parts of the UK, with the latest feedback especially downcast in the South East and South West for England.

[Read the latest RICS UK Residential Market Survey: November 2022 in full.](#)

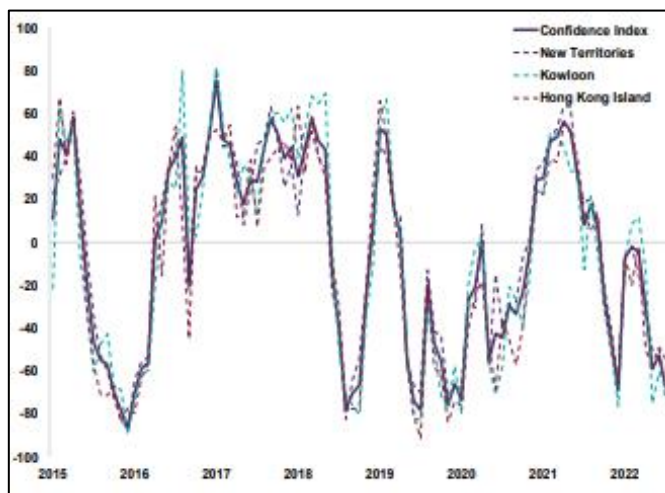
RICS - SPACIOUS 千居 Hong Kong Residential Monitor / Market Survey: [October 2022](#)

- Sentiment deteriorates further in both the sales and lettings markets.

- Confidence indicator remains deeply in the negative zone for a fourth consecutive month,
- New buyer enquiries and agreed sales remain weak across the market,
- Respondents expect rents to fall across all districts.

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Chart 1: Confidence Index*:



© RICS 2022

Source: RICS Economics Research: *RICS Hong Kong Residential Monitor – November 2022*, London: RICS, p1 - Chart 1.

* The Confidence Index is a composite measure capturing overall market momentum, encompassing variables on short-term price and sales expectations. The Home Price Perceptions Index measures the perceived monthly change in home prices as reported by survey participants, where March 2015=100. The Rent Perceptions Index measures the perceived monthly change in rents as reported by survey respondents, where March 2019=100.

The October 2022 *RICS-Spacious Hong Kong Residential Property Monitor* results show market sentiment remains in negative territory across the regions. As is illustrated in Chart 1, The headline Confidence Index was almost unchanged from last time, coming in at -69 compared to -68. Facing headwinds from rising interest rates and a slowing global economy, the headline index shows declines across the three districts, reflecting widespread pessimism throughout the market.

[Read the latest RICS HK Residential Monitor: October 2022 in full.](#)

- *RICS-Spacious HK Residential Monitor* is a monthly guide to the trends in HK's housing market. The report is available from the [RICS website](#) along with other surveys covering global housing, commercial and land markets, as well as construction industry.

Global Commercial Property Monitors, Q3 2022

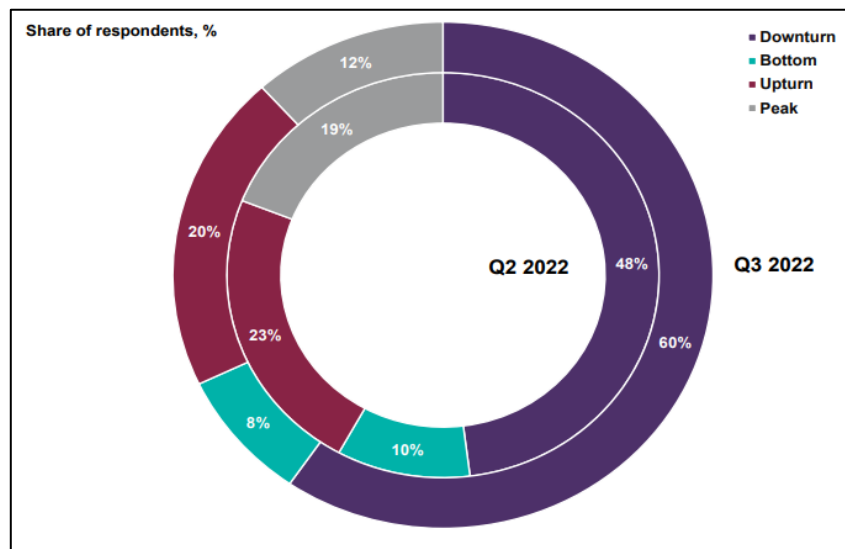
- Sentiment towards real estate turns more negative in general but some markets remain resilient

- The headline index capturing sentiment towards real estate at a global level slips a little further into negative territory,
- The size of the office footprint is viewed as likely to be scaled back by around 10% over the next twelve months,

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- Worsening credit conditions seen as likely to depress development starts,

Chart 6: Global Perceptions Regarding Point in Cycle



© RICS 2022

Source: RICS Economics Research: *RICS Global Commercial Property Monitors*, Q3 2022, London: RICS, p4 - Chart 6

A shift in tone to the feedback received through the *Q3 Global Commercial Property Monitor* was always likely in the face of the increasing uncertain macro environment. The surprise is that it is not more marked with the headline Global Property Sentiment Index (CPSI) slipping from -6 (in Q2) to -11. To put this in context, it is the most negative reading since the first quarter of 2021 when the pandemic was still raging but remains well above the lows recorded during the height of the Covid period. Interestingly, the slightly more negative feedback to the survey at a global level is evident both on the tenant and investor sides of the market, with the Occupier Sentiment Index (OSI) edging down from -5 to -10 and the Investment Sentiment Index (ISI) dropping from -6 to -12.

Different picture for the US and Canada in terms of expectations for the year ahead - Across Canada, respondents anticipate capital values coming under pressure over the near-term, with three-month expectations turning negative across both the office, and retail segments. There has been continued shift in perceptions around the current phase of the property cycle with 66% of respondents in the US feeling the market is now in the downturn phase (up from 52% in Q2), while 59% of respondents take this view in Canada (Chart 6). For the US, 64% of respondents feel the market is expensive, with an almost identical proportion in Canada, (65%) perceive pricing in the market to be too expensive.

[Read the latest RICS Global Commercial Property Monitor, Q3 2022 in full.](#)

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Latest Statistics from the Office for National Statistics (ONS)

UK economy latest – A roundup of the latest data and analysis on the UK economy, business and jobs following Brexit and during the coronavirus (COVID-19) pandemic.

Construction Industry highlights include – **Construction output in Great Britain: September 2022, new orders and Construction Output Price Indices, July to September 2022**

- Short-term measures of output by the construction industry.

What's covered in the latest bulletin?

- Monthly construction output increased by 0.4% in volume terms in September 2022, which is the third consecutive monthly growth following small upward revisions, to 0.6% in August 2022 and 0.2% in July; September 2022 shows the highest level of construction output (£15,125 million) since records began in January 2010.
- The increase in monthly construction output in September 2022 came from increases seen in both new work (0.6%) and repair and maintenance (0.2%) on the month.
- At the sector level, 5 out of the 9 sectors saw a rise in September 2022, with the main contributors to the monthly increase seen in public housing repair and maintenance and infrastructure new work, which increased 11.3% and 2.8% respectively.

Read the full statistical bulletin, 'Construction output in Great Britain: September 2022, new orders and Construction Output Price Indices, July to September 2022

Also: **Construction statistics, Great Britain: 2020** - A wide range of statistics that are current available on the construction industry including the value of output, new orders by sector, number of firms and total employment, insolvencies and construction output price indices.

Latest Statistics from HSE – Health and Safety Executive

Latest Key figures for Great Britain (2020/21)

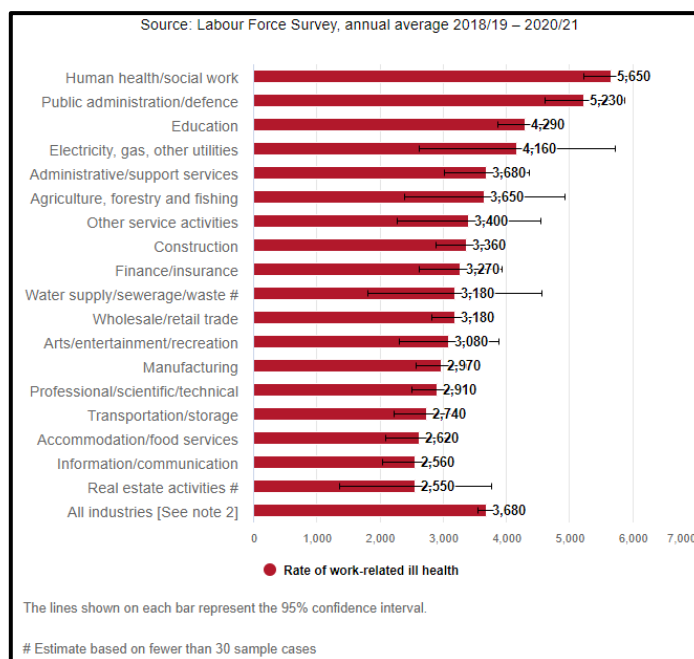
In 2020/21 an estimated 1.7 million workers were suffering from an illness they believed was caused or made worse by their work and 441,000 workers sustained a non-fatal injury at work. [Source: Self-reports from the Labour Force Survey]. However, the risk of injury and work-related ill health varies across industry, being more likely in some industries than others.

The chart overleaf shows how the overall rates of self-reported work-related ill health and workplace injury vary between industry groups. While the chart shows the overall picture for each industry group, this may be masking differences at more detailed levels (for example, illness type or more detailed industry sub-groups).

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From the Health and Safety Executive (HSE), '[Self-reported work-related ill health](#)', and covering '[Construction](#)':

[Rate of self-reported work-related health by industry for people working in the last 12 months \(per 100,000 workers\)](#)
[Note 1], [Note 3]



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Note 1: Industry groupings based on the section level of the 2007 Standard Industrial Classification (SIC) & **Note 3:** These estimates are based on results from a survey and are subject to sampling error.

Source: HSE (2022) 'Self-reported work-related ill health', Bootle: HSE [online]. Available at: www.gov.uk/statistics/industry [accessed 11 March 2022]

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

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Built Environment Research

Latest Policy and Research from:

[1\) Savills Market Trends – Four trends shaping global retail real estate](#)

- Market Trends: Savills.com, May 2022

From creative experiences to emerging markets, the author of this article examines four global trends that will shape the future of prime retail destination cities.

The pandemic undoubtedly created major challenges for prime retail spots in cities all over the world. Grappling with a series of domestic lockdowns and international travel bans, many

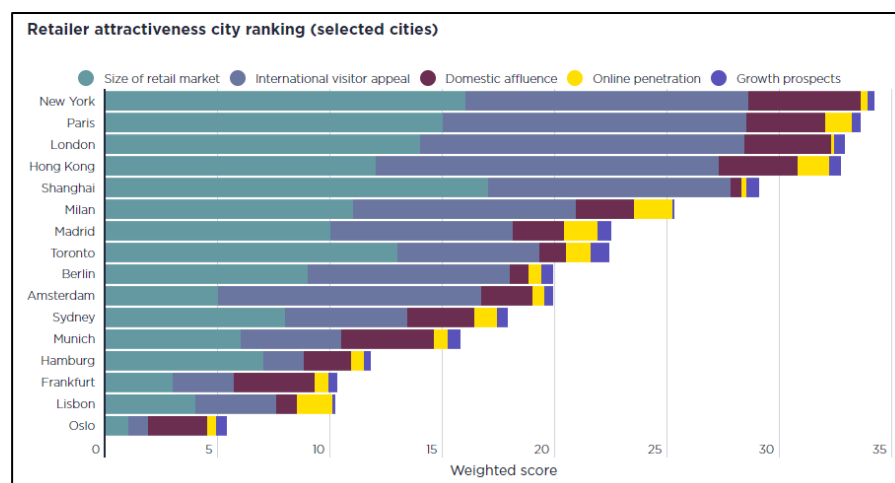
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destination cities struggled to sustain demand throughout 2020 and 2021. Footfall fell. Retailers took a close look at existing store networks. And rising vacancies led landlords to reconsider rental terms in some markets.

But with 2022 being the year that the world seems to be reopening (see publication date), as restrictions lift and tourists return, how might we see these prime retail destinations recover?

As our retailer attractiveness city ranking illustrates both the pace and shape of how destination cities recover is deeply nuanced. Those destination cities that benefit from a strong domestic market, such as New York and Shanghai, have already demonstrated far higher levels of resilience in the past 18 months, and look set for a far quicker bounce back.

Retailer attractiveness city ranking (selected cities)



Source: Savills (2022) *Market Trends: Four trends shaping global retail real estate* [online]. Available at: www.savills.com/impacts/market-trends/four-trends-shaping-global-retail-real-estate.html [accessed 15 July 2022]

Take New York, where the combination of the scale of its retail market and the affluence of its domestic consumers have pushed it to the top of the ranking, narrowly ahead of Paris and London.

In contrast, those cities dependent on a steady stream of inbound tourism have faced sharper declines, and are likely to face a longer road to recovery. In Hong Kong, for example, where tourism forms a key pillar of the city's economy, rents fell steeply from Q4 2019 to Q3 2021.

By sparking this mixed recovery among key destination cities, the pandemic has highlighted a number of emerging markets that present exciting opportunities for retailers in the years ahead, primarily across the Middle East and China.

Despite the migration to e-commerce in many markets, the resilience of many of these destination cities serves to illustrate a broader point: that physical retail remains a key tool for both

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brands and retailers when it comes to reconnecting with their consumers, enhancing exposure and ultimately driving retail sales.

Yes, Covid-19 created inevitable challenges. But rather than result in a material shift in prime retail areas, it served more to accelerate previous trends – the rationalisation of store footprints by mass-market fashion brands, the emergence of experiential brand spaces, and a refocusing on key streets and city centres – rather than diminish the critical role played by physical retail.

Here are the four global trends that Savills predict will shape the future outlook of key retail destination cities:

- Trend 1: Prime global cities will retain their status – Though all major global cities faced challenges as a result of the pandemic, the key fundamentals of a successful prime retail destination don't look set to change.

- Trend 2: Key emerging markets set to create expansion opportunities for retailers – For those retailers looking to expand their global footprints, the new normal also looks set to elevate some key emerging markets up the ranking,

- Trend 3: Retailers that sustained growth during the pandemic will fuel future demand – While those retail sectors that struggled during the pandemic will likely use the next year to recalibrate and reconsider store expansion strategies, those that sustained or even grew sales during the same period look set to accelerate store expansion, benefiting from a rebasing in rents in some markets, and

- Trend 4: From transactional to experiential stores – A trend prior to the pandemic – and one set to continue – is the evolution of physical retail from a transactional space into an experimental, brand-building one.

[Read the Market Trends – 'Four trends shaping global retail real estate', in full.](#)

Also: [Read the Market Trends – 'The total value of global real estate', in full.](#)

Read Savills Investment tips and trends by region -

- [Read more EMEA tips](#), ○ [Read more Asia-Pacific tips](#)
- [Read more North America tips](#)

[Read Savills World cities prime residential forecasts](#)

In earlier issues (05/20) 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', 2020'](#)

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

2) Joseph Rowntree Foundation (JRF) -

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

UK Poverty 2022: The essential guide to understanding poverty in the UK

Related topics – Housing; Work; Income and benefits

- This is the first issue of the JRF's new-style *UK Poverty* report, which looks comprehensively at trends in poverty across all its characteristics and impacts.

What is the picture of poverty at the start of 2022, coming up to two years after a global pandemic struck? To an extent the picture is unclear: we don't yet have official poverty data covering the pandemic period, and we know that the quality of the very surveys we rely on for this information were affected by the onset of the pandemic.

But many sources make it clear that while some groups have been well supported and face better prospects as we enter 2022 (see publication date), others face deep and persistent poverty. In a way this is much better than might be expected given the economic and social shock the country has been through.

We know poverty at any stage in life can lead to negative impacts and so it is critical to scrutinise the data thoroughly to work out who is worst affected, determine how trends are changing over time and see what future prospects are.

This report gives a clear statement, agreed by JRF's Grassroots Poverty Action Group (GPAC), that we need coordinated commitment, effort and action on the intersecting issues and challenges identified in this report. This can turn back the tide of poverty, and offer security for the many people experiencing hardship across the UK.

[Read the JSR article entitled, 'UK Poverty 2022: The essential guide to understanding poverty in the UK' in full](#)

Also gain access to the following free downloads that include:

Findings:

[JRF \(2022\) *UK Poverty 2022: The essential guide to understanding poverty in the UK* \(148.85 KB\),](#)

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and the Full Report:

[JRF \(2022\) UK Poverty 2022: The essential guide to understanding poverty in the UK \(3.71 MB\).](#)

Related Links:

[Read the JSR report entitled, 'UK Poverty 2020/21' in full](#)

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

[UK Poverty Statistics from the Joseph Rowntree Foundation -](#)

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.

[JRF Spring Budget 2021 analysis](#)

[JRF Analysis of the 2020 Spending Review](#)

3) 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.

Housing allocations and the vacancy chain: how coordinating chains can better meet housing needs and tenant choice.

The Smith Institute (2022)

- This report is an exploration into the factors influencing vacancy chains in London's social housing, covering general needs stock held by councils, ALMOs and housing associations, with interplays from supported and specialist housing.

The vacancy chain for the purpose of this study refers to the overall sequences of homes made available for social housing as one household vacates an existing social home and subsequently re-lets then rehuses another household (and so on until no new social housing vacancy is formed).

The analysis is focused on how different types of letting do and don't release new social housing bedspaces, and how different stresses in allocations policies and lettings quotas influence the length of chains in social housing lettings and categories of housing need being met.

The report is in five sections, including a set of recommendations.

[Read the full piece of research, 'Housing allocations and the vacancy chain: how coordinating chains can better meet housing needs and tenant choice.'](#)

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Pulling at the Roots: A report by the Southwark Council Housing Resident's Working Part on understanding and mitigating the economic and financial impacts of Covid for residents of council housing in Southwark

Southwark Council Housing Residents' Working Party (2021)

The Smith Institute provided support for the Southwark Council Housing Residents' Working Part on understanding and mitigating the economic and financial impacts of Covid for residents of council housing in Southwark.

To get a better understanding the Council helped establish a Council Housing Residents' Working Party (RWP), comprising tenants and homeowners in June 2021. The Working Party was tasked to examine the economic and financial impacts of the COVID pandemic, including paying special attention to who has been worst affected, what support the Borough's council housing residents have had, and what is needed to improve this morning forwards.

The RWP took oral and written evidence from Council officers, housing and debt experts, and representatives from the community and voluntary sector, considered government and Council held data on rent arrears and the impact of Covid; and conducted its own survey of over 1,800 tenants and leaseholders.

Read the full piece of research, 'Pulling at the roots: A report by the Southwark Council Housing Residents' Working Party on understanding and mitigating the economic and financial impacts of Covid for residents of council housing in Southwark.'

A Just Transition: Ensuring responsible investment for a just transition to net zero.

The Smith Institute (2021)

The Smith Institute supported the All-Party Parliamentary Group for Local Authority Pension Funds inquiry into 'Responsible investment for a just transition.'

This report is based on evidence sessions and written submissions to that inquiry from investors, industry, academics, community groups, trade unions, and other non-government organisations. The inquiry report seeks to inform politicians, policymakers, stakeholders and the public on the roles and responsibilities that investors can play, with the support of their members and government, in enabling a just transition to net zero carbon emissions.

Read the full piece of research, 'A Just Transition: Ensuring responsible investment for a just transition to net zero.'

The Living Wage Dividend: maximising the local economic benefits of paying a living wage.

Hunter P (2021)

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The economic fall-out from Covid has been substantial. However, it has not been evenly felt. This is especially true for the labour market with low paid workers more likely to see their hours and pay fall and more likely to be made unemployed or furloughed. Indeed, the pandemic has placed the spotlight on low pay and in-work poverty. Recent polling for the TUC, for example, showed how low-income workers have borne the brunt of the pandemic.

This report seeks to take forward the work of the Foundation's 'Living Wage Places' initiative, focusing on how to maximise the benefits of the Living Wage in towns, cities and city-regions across the UK. Using evidence-based assumptions, the report examines and quantifies how much individuals gain, how that wage uplift is paid for and what the local economic impact is likely to be based on moving 25% of low paid workers up to the Living Wage.

[Read the full piece of research, 'The Living Wage Dividend: maximising the local economic benefits of paying a living wage.'](#)

Planning for the recovery and the shift towards homeworking: implications for poverty in outer London

Hunter P (2021)

This report, supported by Trust for London, examines the short and long-term implications of Covid on poverty and inequality in outer London, with a particular focus on employment, low pay, housing, and the shift towards homeworking.

The report acknowledges the devastating impact that the pandemic has had on the lives of outer London's five million residents – not least on people's health and well-being – but seeks mainly to understand the after-effects and explore the options for change.

[Read the full piece of research, 'Planning for the recovery and the shift towards homeworking: implications for poverty in outer London.'](#)

A National Housing Conversion Fund: buying properties to boost affordable housing supply

September 2020

The Smith Institute's Affordable Housing Commission published a report into the national housing conversion fund.

The report examines two main ways a ring-fenced National Housing Conversion Fund could be achieved. The first is targeting funds to purchase homes on the secondary (existing) market. It examines which housing markets – in broad terms – the investment might be best aimed at, factoring in how it could help improve housing condition and support jobs and growth.

[Read the full piece of research, 'A National Housing Conversion Fund: buying properties to boost affordable housing supply.'](#)

[Back to top](#)**Falling behind: The impact of Universal Credit on rent arrears for council tenants in London.**

The Smith Institute (2020)

- This report tells this story of financial stress through analysis of tenant rent accounts.

[Read the full piece of research, 'Falling behind: The impact of Universal Credit on rent arrears for council tenants in London'.](#)

Making Housing Affordable after Covid-19: A follow up report from the Affordable Housing Commission

Affordable Housing Commission (2020)

- The Smith Institute's Affordable Housing Commission published a report into making affordable housing after Covid-19.

[Read the full piece of research, 'Making Housing Affordable after Covid-19: A follow up report from the Affordable Housing Commission'.](#)

Making Housing Affordable Again: Rebalancing the Nation's Housing System: The final report of the Affordable Housing Commission

March 2020

- The Smith Institute's Affordable Housing Commission published its final report and recommendations: making housing affordable again.

[Read the full piece of research, 'Making Housing Affordable Again: Rebalancing the Nation's Housing System: The final report of the Affordable Housing Commission.'](#)

4) CBRE Insights and Research

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: Insights and Research](#)

[Access 'Sustainability in real estate decision-making: views from the coal face.'](#)

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5) CABE – Chartered Institute of Building Engineers

Latest news: Fire Safety Act and Regulations

- **Changes to Building Regulations for fire safety in specific types of buildings**
 - On 1 June 2022, the Department for Levelling Up Housing and Communities (DLUHC) announced the outcome of its consultation on extending controls on use of combustible materials, and additional fire safety measures in higher risk buildings. These will come into force on 1 December 2022.
 - [Further information on the Changes to the Building Regulations](#) and
 - [More details can be found in the Amendment Document issued by DLUHC](#)
- **Coming into force of Schedule 1 of the Fire Safety Act relating to Fire Risk Assessments**
 - The Fire Safety Act 2021 will come into force in 2023, but ahead of this Section 1 – Premises to which the Regulatory Reform (Fire Safety) Order (FSO) applies and Section 3 – Risk-based guidance about the discharge of duties under the FSO of the Act commenced on 16 May 2022.
 - [Fire Safety Act Commencement Prioritisation Advice](#)
 - [Information on commencement of Section 1 and 3 of the Fire Safety Act](#)
 - [Fire Risk Assessment Prioritisation Tool](#)

Key publications from CABE

Setting the Bar – a blueprint to improve competence for those working on higher risk buildings and drive culture change has been set out by a cross-industry group representing more than 150 organisations, including CABE, in the fire and built environment industries. [Access *Setting the Bar* – Final Report](#)

Also: [Access *Safer people, safer homes: Building Safety Management*](#)

[Access the Chartered Association of Building Engineers for further information.](#) and [Access *Building Engineer* website](#)

6) RICS – 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**.

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As of **December 2022**, the [latest news & insights](#) include:

- [RICS Fire Safety Hub](#) – read the latest guidance and development from RICS in the area of fire safety,
- [The future of BIM](#) – An overview of what BIM is and how it is evolving,
- **Cladding External Wall System [EWS] FAQs,**
- **New RICS framework for increased autonomy of regulation of surveying,**
- **How data and technology can improve the tenant experience,**
- **Valuation approach for properties in residential buildings with cladding,**
- **Survey of the Profession now open – please share your views,**
- **Update from Richard Collins, Interim CEO – Dec. 2022, and**
- **I Am Woman: A Discussion with Black Women in Real Estate.**

7) CIOB – Chartered Institute of Building

The quality of the built environment affects every member of society. As a professional body that represents the leaders and managers who work at every stage of the lifecycle of a construction project, The 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 **December 2022**, the latest CIOB Policy and Research include:

- **Future of Construction research** – *Aiming the Construction Industry for the Future: Recruiting from the military into construction.* Also access the latest Future of Construction - [CIOB Policy Team Newsletter – January 2022](#) (4th Feb 2022)
- **Ethics research** – *Understanding Mental Health in the Built Environment; Construction and the Modern Slavery Act: Tackling Exploitation in the UK; The State of Well-being in the Construction Industry, and Building a Fairer System: Tackling modern slavery in construction supply chains,*
- **Economics and social impact research** – *The Real Face of Construction 2020: Socio-Economic Analysis of The True Value of The Built Environment*
- *Job Quality in the Irish Construction Sector* (22nd April 2021)
- **Education and skills research** – *Exploring the impact of the ageing population on the workforce and built environment*
- **The Wider Built Environment** – *Overcoming the Barriers to Housebuilding in Ireland* (Feb '22); and *Understanding the Value of Professionals and Professional Bodies.*

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

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8) [House of Commons Library](#), 9) the House of Lords Library and 10) 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 **November 2022**, the House of Commons Library has recently updated their website that is now broken down into the following sections or subject areas:

Services that include Research, Resources, Training & Events,

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

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

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

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

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

Science, Environment and Technology that include **Energy**, **Environment**, **Climate Change**, Sciences, **Local Data**

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

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

As of **December 2022**, the latest House of Commons Library, **[Research publications](#)** incl.

1. Asylum seekers: the permission to work policy,
2. UK aid and Yemen's humanitarian crisis,
3. A blueprint for eye health in England and the devolved nations.

[Review House of Commons Library, Research for this week](#)

As of **December 2022** the latest **[House of Commons Research](#)**:

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Under '**Education**' and within 'Social policy,' the top research briefings incl.

1. Technical recruitment and retention in England,
2. Assessment and testing in primary education in England,
3. Student loan statistics,
4. University Strikes FAQs,
5. Research on the increasing cost of living and inflation,
6. Support for students from Ukraine in UK higher education,
7. Careers guidance in schools, colleges and universities (England), and
8. Higher Education (Freedom of Speech) Bill: Progress of the Bill.

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

1. Rent setting: social housing (England)
2. Planning rules for 5G masts in England,
3. The Cladding External Wall System (EWS),
4. A voluntary Right to Buy for housing association tenants,
5. Building broadband and mobile infrastructure,
6. Statutory Homelessness in England,
7. Leasehold reform in England and Wales: What's happening and when?
8. Help with paying for historical fire safety work: high-rise blocks (England)

Under '**Energy**,' '**Environment**' and '**Climate change**,' and within 'Science, Environment and Technology' include:

1. Self-disconnection of prepayment meters,
2. Government support for marine renewables,
3. Sustainability of burning trees for energy generation in the UK,
4. Permit variation processes for waste incineration facilities,
5. Government support for a nature and climate declaration,
6. COP27: The 2022 United Nations Climate Change Conference, and
7. COP26: Briefings for the 2021 conference

[House of Commons Library search](#) on '**construction industry**' identifies 18 key documents, that incl. 'Taxation in the construction industry', 'CITB – Construction Industry Training Board Levy', and '**The construction industry: statistics and policy, Dec. 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

MODUS

MODUS - the RICS magazine that brings you the latest news and views, expert advice and in-depth features spanning the breadth of the surveying profession around the world.

In the latest digital MODUS (**December 2022**), 'The 24-hour city: the night belongs to us' – A night-time economy has often been seen as an add-on but, as work patterns shift, and cities struggle to draw people into their centres, can vibrant out-of-hours environments enhance life?

Subject Terms/Keywords: Cities and placemaking; Commercial property; Diversity and inclusion; Infrastructure and services; Planning and development; and Property finance and investment.

Latest articles within *Modus*:

- I have seen first-hand the positive impact of our work' – Outgoing RICS President Clement Lau recalls some of the most memorable moments of his tenure and why professionals are building a better future together.

Subject Terms/Keywords: Building surveying; Ethical practice; Project management; Projects and people; Quantity surveying and construction; and RICS standards and guidance.

- Diane Dumashie FRICS: taking ownership – The new president of the Fédération Internationale des Géomètres has a long record of collaboration and advocating for land rights in Africa and Latin America.

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Subject Terms/Keywords: Dispute resolution; Diversity and inclusion; Geomatics; Land and resources; Land rights; and Projects and people.

- **ABBA: keeping the show on the road** – Could ABBA Voyage's temporary arena in east London mean that more venues become transportable? And what impact can they have on the areas in which they pitch up?

Subject Terms/Keywords: Cities and placemaking; Commercial property; Facilities management; Planning and development; Projects and people; and Sustainability.

- **What are the latest trends in modular construction?** – High-rise residential developments created by modular construction are appearing all over the world. Is sustainability, practicality or profit the main reason for its popularity?

Subject Terms/Keywords: Cities and placemaking; Commercial property; Housing; Materials and resources; Quantity surveying and construction; and Residential

- **Sustainability disclosures: the changing nature of real estate** – You can't hide from data and, increasingly, requirements on the commercial sector to provide more information about sustainability are coming from investors, staff and governments.

Subject Terms/Keywords: Commercial property; Commercial valuation; Data management; Property finance and investment; Sustainability; and Valuation.

- **Valuation: green premium vs brown discount** – Property experts in the residential sector have noted higher sales values and growing demand for energy efficiency features from buyers and investors.

Subject Terms/Keywords: Building control; Energy; Residential; Residential valuation; Sustainability; and Valuation.

- **Learning from the cities where black Americans live longest** – In the US, narratives around black-majority neighbourhoods often focus on economic depression. Now, new research is shining a light on the places where black Americans are thriving – and informing approaches in other areas.

Subject Terms/Keywords: Diversity and inclusion; Housing; Research; Residential; Residential valuation; and Valuation.

- **Remember this: the changing face of memorials** – Commemorating events from a country's past has become a central tenet of many heritage projects, but how can national memorials shine a light on a history some would sooner forget?

Subject Terms/Keywords: Cities and placemaking; Corporate real estate; Diversity and inclusion; Heritage and conservation;

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Subject Terms/Keywords continued.

Land and resources; and Planning and development.

- **Is the commercial property sector in recession** – Downbeat forecasts from earlier in the year (see publication date) appear justified as the after-effects of COVID-19, the energy crisis and inflationary pressure all take their toll on confidence.

Subject Terms/Keywords: Commercial property; Commercial valuation; Economics; Finance and lending; Property finance and investment; and Research.

- **Buildings that elevated cities: The Wainwright, St Louis** – An office block deep in the US Midwest might not look as if it started an architectural revolution, but its influence has spread to every corner of the world.

Subject Terms/Keywords: Cities and placemaking; Commercial property; Heritage & conservation; and Planning and development.

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

1. **Construction Journal** - The journal helps **quantity surveyors** and project managers with the technical and professional aspects of their day jobs and keep up to date with developments and practical matters in the profession. It covers topics including contracts, cost management, procurement, construction law and regulations, communications, and project management skills.
2. **Built Environment Journal** (Incl. Building Surveying, Building Conservation, and Building Control) - Coverage keeps practitioners in the disciplines of building surveying, building control, and building conservation up to date on the latest developments, products, standards, and guidance.
3. **Land Journal** - The journal emphasises the crossovers in these practice areas and their global nature, with articles contributed by experts from all over the ..
4. **Property Journal** - The journal contains high-quality technical material in clearly defined sections, as well as some material that crosses professional groups to reach a wider audience.

Further information can be accessed via the RICS Website, Home > News & Insights > **RICS Publications** [online].

The Heritage Alliance's (HA) **Heritage Update**, the latest edition, **November 2022 - Issue 481** focusing on – Briefing Ministers on Heritage Asks; Chancellor's Statement; New publications and Research for the Sector; and Last Chance to book for Heritage Debate 2022 Topic: Future for Heritage! Also: **Engaging Digital Audiences**, available on the **HA project portal** - access webinars on diversifying digital audiences, how to plan great webinars, how to use exceptions to copyright in

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your digital activities & how to encourage your audience to create user-generated content.

Institute of Workplace and Facilities Management (IWFM)

Facilitate, the latest **November/December 2022** edition focus is on 'Shout about your success' – Peek behind the IWFM Impact Awards ceremony, celebrating the exemplars of the FM profession. The IWFM EDI project's influences was evident through the evening, and the four winners recognised for their efforts in improving EDI underlined the importance of keeping the agenda front of mind.

Read more related articles on the [IWFM Insight webpage](#).

Contractors World International,

Construction Management (formerly *Construction Manager*) is the magazine of the Chartered Institute of Building (CIOB) who also publish the **Global Construction Review** (GCR). Note: Latest articles from both journals are covered earlier within this issue of *Knowledge Foundations*.

Subscriptions available via the VLE e-Library include:

Construction Information Service (CIS) Insight 2022. The Latest Edition [**December 2022**] focuses on – **Concrete**, and covers -

- **Pros and cons,**
- **Admixtures and reinforcements,** and
- **Defects and cracking.**

Taylor and Francis Online and include the following e-Journals:

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

Henry Stewart Publications and include the following e-Journals:

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

Corporate Real Estate Journal is the essential peer-reviewed, professional journal for corporate real estate executives.

Each quarterly 100-page issue publishes high quality articles and real case studies on new thinking, strategies, and techniques in corporate real estate. It cuts through the deluge of information facing corporate real estate professionals to deliver content, which is authoritative, practical, and relevant by providing a blend of genuine thought-leadership – which expands what can be achieved with corporate real estate – with detailed, actionable advice and 'lessons learned' from industry peers.

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In-depth articles and case studies scheduled for the new volume, **Vol 11, Number 3 (2022-2023)** of **Corporate Real Estate Journal** incl.

Editorial.**Practice papers**

1. Unlocking the next wave of value in corporate real estate
2. Modern lease monetisations: How to capitalise on market arbitrages to significantly reduce occupancy costs
3. How technology is advancing capital planning
4. Aligning experience data to return-to-office investments
5. The return on investment of tenant engagement
6. Leveraging technology for strategic workplace decisions
7. Places to below: Practical considerations for creating inclusive and impactful places of work
8. Communities of work: Creating place in the workplace

Other articles from *Corporate Real Estate Journal* (2021-22), Volume 11, Number 3:

9. Turning disruption into opportunity: Leading corporate real estate in a post-COVID-19 world,
10. Trust, flexibility and technology: The keys to creating a more mature workplace,
11. How to turn uncertainty into a corporate real estate opportunity,
12. How companies can create a winning site selection process,
13. New journeys in change: A 'hybrid' primer – Part 2
14. The great office evolution: Reimagining the workplace,
15. Indian real estate in the post-COVID-19 era,
16. Work experience from home: hybrid work and the future of distributed work locations: A comparative empirical analysis between the US and Germany

Book review:

Elemental Change: Making stuff happen when nothing stands still by Neil User.

Other articles from *Corporate Real Estate Journal* (2021-22), Volume 11, Number 2:**Practice papers**

17. Why a hybrid office needs to understand and support employee commutes with transportation information
18. Data analytics and change management are transforming the future of the workplace: The opportunity to create value driven harmony between people, place and technology
19. The great workplace reset: Pivoting to the human experience in the war for talent

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20. Information strategy in view of enterprise real estate futures:
The evolving role of information systems in corporate real estate and facility management

21. Liberated work: Responding to the unshackling of 'work' from 'place'

[Vol 11 \(2\) \(2021-22\)](#) of [Corporate Real Estate Journal](#)
[Vol 11 \(1\) \(2021-22\)](#) of [Corporate Real Estate Journal](#)
[Vol 10 \(4\) \(2020-21\)](#) of [Corporate Real Estate Journal](#)
[Vol 10 \(3\) \(2020-21\)](#) of [Corporate Real Estate Journal](#).
[Vol 10 \(2\) \(2020-21\)](#) of [Corporate Real Estate Journal](#), and
[Vol 10 \(1\) \(2020-21\)](#) Special issue: COVID-19, CRE and workplace response

HSTalks

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HSTalks is a member of the Henry Stewart Group which has been a leader in providing graduate and continuing professional education in science, business, and management for over 40 years through peer reviewed vocational journals (such as the *Corporate Real Estate Journal*), conferences and online education for medical schools, business schools, universities, government, and commercial enterprises in over sixty countries around the world.

Henry Stewart Talks Ltd (HSTalks) provides specially prepared, animated, online, audio-visual lectures, seminar-style talks and case studies that accompany the 'Business & Management Collection' of e-Journals that the UCEM e-Library subscribes to.

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

[Open Praxis](#) – peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education. It is published by the [International Council for Open and Distance Education – ICDE](#).



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This latest *Open Praxis* special issue **Vol 14(2)** includes five research papers, one innovative practice paper and one book review.

Keywords: open education, distance education, e-learning, online education, LMS, engagement, ebook, OER, technology acceptance, learning design.

Editorial:**Research articles include:**

1. 'Comparison of the Satisfaction of Students who Use Different Learning Management Systems in Distance Education Processes',
2. 'Investigation of Kyrgyz Learners' Engagement in Online Courses',
3. 'Instructional Design of Online Courses in Mozambique: The Use of eBooks as a Strategy to Improve Learning',
4. 'The Role of Perceived Ease of Use and Perceived Usefulness on Personality Traits among Adults',
5. 'The Role of Teamwork in the Creation of Open Educational Resources for Closing SDG-Related Knowledge Gaps'.

Innovative practice articles:

1. 'Learning Design in the Time of COVID-19: The Digital Learning Design Unit Story'

In this innovative practice articles, we share the experiences of a team of digital learning designers created to support the university community's pivot online. This project adopts a case study methodology. The case study of the Digital Learning Design Unit (DLDU) described in this article offers an exemplar of learning design and the work of learning designers through the top of Covid-19.

Book review(s):

1. 'Book Review of Learning to Learn Online'.

Keywords: online education, online learners, online learning skills, open textbook, strategies.

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.

Published in the **Latest Issue of EURODL**, **Vol. 24 (2022): Issue 1 (October 2022)**, article titles include:

- 'A Device Free Lunch Break program: An experiment to promote a balanced use of electronic devices in Middle Secondary International schools,'
- 'Avatar-based virtual reality and the associated gender stereotypes in a university environment,

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Also, in EURODL -

- 'Transcript and Accessibility: Student Views from Using Webinars in Built Environment Education,' by UCEM's Tharindu R. Liyanagunawardena
- 'Vector AR3-APP – A Good-Practice Example of Learning with Augmented Reality',
- 'Educators' Digital Competence in Swedish Rural Schools,'
- 'Proposition for the Introduction of the Concept Telemathesis in Videoconferencing in Distance Education,'
- 'Developing E-Authentication for E-Assessment'
- 'Diversity of Students Testing the System in Higher Education.'

Online Learning Journal (OLJ), the official journal of the Online Learning Consortium (OLC)

The **Online Learning Consortium's** premier journal dedicated to the development and dissemination of new knowledge at the intersection of pedagogy, emerging technology, policy, and practice in online environments.

The OLC **Online Learning Journal**, latest edition, **OLJ 2022 Vol 26(2)**. This special issue of OLC's *Online Learning Journal* contains select papers presented at the 2021 OLC Accelerate Conference and the 2022 OLC Innovate Conference. This issue features four articles solicited from the many conference presentations at OLC Accelerate, held in fall 2021 and OLC Innovate, held in spring 2022.

Keywords: online learning, OLC conferences, educational research.

2022 OLC Conference Special Issue

1. Effect of Role-Play in Online Discussions on Student Engagement and Critical Thinking,
2. "It helped to know I wasn't alone": Exploring Student Satisfaction in an Online Community with a Gamified, Social Media-Like Instructional Approach,
3. A Case Study of Community of Inquiry Presences and Cognitive Load in Asynchronous Online STEM Courses
4. Teaching and Learning with AI-Generated Courseware: Lessons from the Classroom

Section II

1. Defining Different Modes of Learning: Resolving Confusion and Contention Through Consensus
2. Exploring the Factors Associated with Undergraduate Students' Online Learning Anxiety: Development of the Online Learner Anxiety Scale
3. Culturally Responsive Teaching in an Undergraduate Online General Education Course
4. Advising Sleep Deprived Students to Take Online Classes

5. Transitioning to Online Learning amid COVID-19: Perspective in a Civil Engineering Program
6. Creating a Social Presence Measure: Self-Rated Behaviors that Indicate Mediated Presence
7. Using Online Tools to Develop Higher Order Learning Among Tertiary Students
8. Enhancing College Students' Online Group Work Perceptions and Skills Using a Utility-Value Intervention
9. Get Connected: A Scoping Review of Advising Online Graduate Students, and more.

[ISSN: 2472 – 5730]

Higher Education Pedagogies, an Open Access Journal.

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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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.

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.

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Real Estate: The Basics

Forsyth, J. and Wilcox, J. (2022) *Real Estate: The Basics*, Oxon: Routledge. ISBN-13: 9780367725433

Real Estate: The Basics provides an easy-to-read introduction to the core concepts of the industry to students new to the subject or professionals changing direction within the sector. Note: This book would not have been written if it were not for some students on UCEM's 'Property Transactions' module –some of them are anonymously quoted in the Introduction.

The book encapsulates the key 'need to know' aspects of Real Estate including the 'language' of real estate; its value and contribution to countries' GDP; its primary purpose, whether as an asset or as a resource; valuation concepts; asset classes; basic concepts of land law, and of landlord and tenant law; the increased role and importance of sustainability and technology; and an overview of the wide range of professionals involved in the industry.

Note: Introductory offer 25% off *Real Estate The Basics* for a limited period. Go to [Routledge.com](https://www.routledge.com) and use the code **REB25**.

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 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 a further resources section.

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. [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](#).

Directory of Open Access Books (DOAB)

The primary aim of DOAB is to increase discoverability of Open Access books.

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

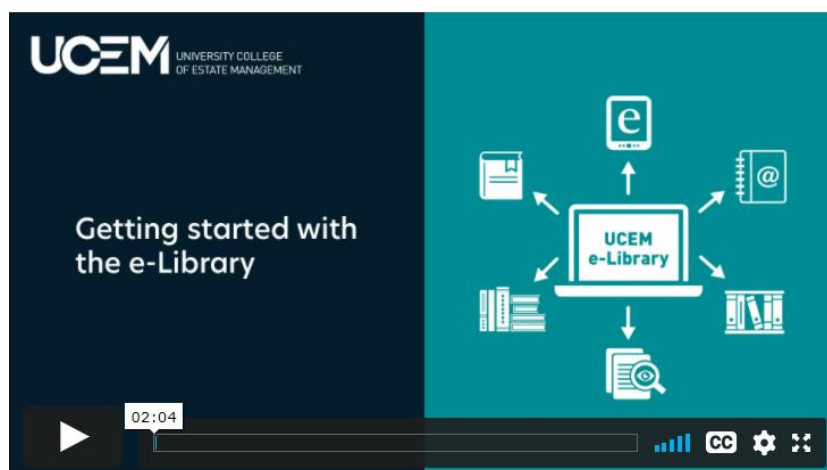
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UCEM e-Library Portrait

The aim of the e-Library

The aim of the e-Library is to:

- disseminate information, share good practices, and promote current awareness to assist in underpinning written work,
- add value and depth to our students' study experience, and
- support the continuing professional development of all those working and aspiring to work in the built environment.



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Source: UCEM (2022) *Getting started with the e-Library* [video], YouTube. Available at: www.youtube.com/watch?v=iEg8DFUFifY&t=5s [accessed 15 July 2022].

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

Whether you are obtaining a qualification, undertaking CPD or researching a particular field, having access to a well-equipped library is essential.

The UCEM e-Library (accessed through the Virtual Learning Environment - VLE) is a comprehensive and valuable online resource, enabling students to access a wealth of subject-specific and credible information to support them throughout their studies and career development.

What resources are available in the UCEM e-Library?

The e-Library is made up of eleven sections and provides students with around the clock access to online searchable databases from key industry and educational sources, thousands of journals, books, and resources, UCEM's entire collection of study materials and published work and UCEM's dissertation library.

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The sections that make up the UCEM e-Library:



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Resources available within the UCEM e-Library include Up-to-date information and online searchable databases from –

Key educational sources that include- Taylor and Francis Online, Ingenta Connect, Henry Stewart Publications and HS Talks, vLex | Justis, Westlaw EDGE UK, EBSCO Business Source Premier, Emerald Insight - access to around 2600 e-Book titles and their entire 'Property Management and the Built Environment' collection of journals, and

Industry-specific sources that include- IHS's Construction Information Service, *Estates Gazette* (EG) digital journal and EG Radius, *Property Week*, RICS's BCIS – Building Cost Information Service and ISURV online information service, NEC - New Engineering Contract Academia, BSRIA – Building Services Research and Information Association, and more.

Where to find help - Overwhelmed by the sheer amount of information out there?

Not only do libraries provide us with books to read, but they are valuable tools and resources. The UCEM e-Library is continually striving for improvement and changing to meet the demands of today's technology and ever-expanding volumes of knowledge creation.

The e-Library is here to help make finding up-to-date, credible, and relevant information easier. Access the [2022 e-Library interactive brochure](#) for further information.

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Emerald Insight – the online platform for Emerald Publishing. Emerald champions new ideas in advancing the research and practice of business and management, and manages a portfolio of nearly three hundred journals, including a 'Property Management and the Built Environment' collection that UCEM subscribes to.



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Emerald works in close collaboration with numerous academic (including UCEM) and corporate organisations worldwide. Emerald Publishing endorses the e-Library's tailor-made research reports – a service provided to UCEM tutors to help supplement teaching and learning materials on subject-specific areas.

[December 2022] - Here are some Open Access Journal articles available via Emerald, all around the theme of **'The Built Environment'**.

Note: The following article examples are freely available via **Emerald Publishing Open Access**:

1. Ebekozen, A., Aigbavboa, C., and Aliu, J. (2022), 'Built environment academics for 21st century world of teaching: stakeholders' perspective', ***International Journal of Building Pathology and Adaptation***, Vol. ahead-of-print, No. ahead-of-print. Emerald Publishing Ltd.
2. Malalgoda, C., Amaratunga, D. and Haigh, R. (2016) 'Overcoming challenges faced by local governments in creating a resilient built environment in cities', ***Disaster Prevention and Management***, Vol. 25, No. 5, pp. 628-648. Emerald Publishing Ltd.
3. Mahima, M., Shanthi Priya, R., Rajagopal, P. and Pradeepa, C. (2022), 'Impact of Covid-19 on the built environment', ***Frontiers in Engineering and Built Environment***, Vol. 2, No. 2, pp. 69-80. Emerald Publishing Ltd.



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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” says Lucy Roper, UCEM Information Governance Manager and who can be contacted on the library@ucem.ac.uk email address

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Student Career Services

UCEM Career Services

UCEM Career Services 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 and read the UCEM Careers interactive brochure](#)

[Access UCEM Career Services](#)

Building Better Property Professionals



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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 Assessment of Professional Competence (APC) or simply seeking engaging Continuing Professional Development (CPD).

[Property Elite](#) provides training and 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.

[Back to top](#)**This month [December 2022] the Hot Top Highlight – RICS Consumer Guide Boundary Disputes in England and Wales**

In this latest blog article, Property Elite take a look at the RICS Consumer Guide Boundary Disputes in England and Wales. This is essential reading for any RICS APC and AssocRICS candidates or Chartered Surveyors who come across boundaries and boundary disputes in their professional work. It will also be of interest to anyone who is a homeowner or tenant of a rented property! You can also read a previous blog on [RICS boundary guidance](#).

Why did the RICS publish this Consumer Guide?

RICS published this Consumer Guide as boundary disputes can be expensive, emotionally charged and time consuming, particularly if they become litigious.

Disputes often arise when new boundary features are installed, boundary lines are not clear, or a new structure is built close or up to a boundary. Party walls also need to be considered in these scenarios.

What do boundaries look like?

Boundaries take many physical forms, including:

• Fences; • Walls; • Hedges; • Edging Stones; • Building walls/edges; • Roads; • Ditches; and • Rivers.

Also covered in this blog:

- **What considerations would you make regarding boundaries pre-acquisition?**

- Understanding a property's boundaries during the pre-acquisition and conveyancing processes is essential.

This will partly be the role of the solicitor or conveyancer, but there is some basic due diligence that you can undertake as a surveyor (or for your own property purchases)

Further details and access to the Property Elite Hot Topic RICS Consumer Boundary Disputes in England and Wales

Also: [Property Elite Hot Topic Highlight blog: A-Z of Investment Terms](#), and [Access Property Elite's 'Building Better Property Professionals', Latest Blogs](#)

Note: The author of most of these blogs, Jen Lemen-Hogarth is an Associate Tutor – UCEM and Partner – Property Elite.

Lucy's Top Tips – 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

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packs, revision quizzes and e-mock interviews (available via the e-Library). 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.

Other related web-links

Gerrard N (2022) '[CM reader survey: 'We're creating people's dreams'](#)', *Construction Management*, 3 January - What CM readers like most about a career in construction management.

[GoConstruct.org](#) website highlights the many career opportunities available in construction and the built environment. The website helps to meet the future skills needs of the industry.

[TARGETjobs](#) – All TARGETjobs graduate career guides and directories are available for you to view online and download for future reference and include [Explore Property](#), [Explore Engineering](#), [Engineering 2021](#), 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](#)



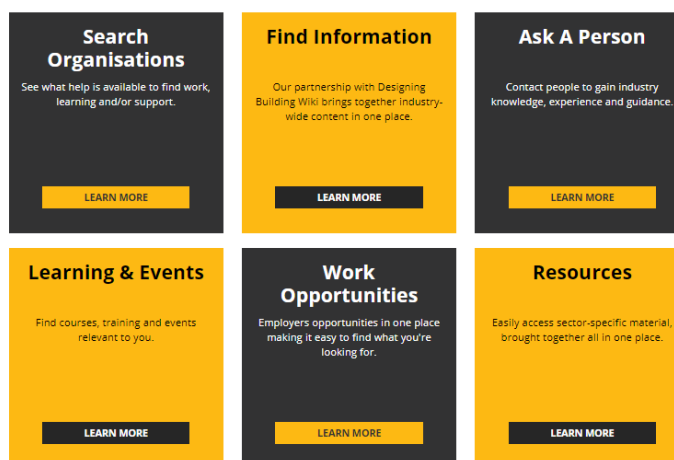
© UCEM 2021

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

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People Wiki:

What are you looking for?



© Building People 2021

The UK needs to build, but there is a shortage of competent and experienced workers, and the workforce we have lacks diversity. Building People joins the dots to help people find employers, opportunities, and resources, and to help employers engage with a more diverse range of talent.

People Wiki (a free, open access knowledge sharing platform for diversity and inclusion, skills and careers, and social value.) is a crucial part of Building People's ambition to create a single platform that brings together a multitude of previously fragmented information, knowledge, resources, opportunities, and needs focused on diversity and inclusion, skills and careers, and social value.

Related Link:

UCEM incubate social enterprise, Building People, becomes a fully-fledged success story

Building People, whose mission is to improve equality, diversity, and inclusion in the built environment, is now an independent entity.

Since its inception in 2018, UCEM has provided the enterprise with office space, founder job security and donations totalling £150,000. This gave Building People the perfect platform to deliver its collaborative 'dot-joining' activity, connecting people to opportunities across the built environment and enabling employers to engage with a more diverse range of talent.

With strong levels of support coming in from across the sector, both parties are in agreement that now is the time for Building People to fledge the nest and become a separate entity.

It is an exciting time for the social enterprise as it announces its three-year plan, which focuses on five key areas:

1. **Profile:** Positioning Building People as the go-to source for equality, diversity and inclusion best practice and activities, and though leadership in the built environment,
2. **Partnerships:** Delivering maximum joined-up impact through the growth and development of Building People's supply and demand networks,
3. **People:** Enabling equality of opportunity through the provision of a simpler and more supported user experience in a fragmented careers landscape,
4. **Policy:** Aligning with and supporting the achievement and enhancement of relevant national sector policy and activity, and
5. **Planning:** Establishing a secure future of Building People as a sector-backed movement for collaborative change across the built environment.

Access the article '[UCEM incubated social enterprise, Building People, becomes a fully-fledged success story](#)' in full.

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UCEM Sustainability Hub

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.

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.

Building Research Establishment (BRE) Sustainability

- Access 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](#)

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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](#)

5 practical tips for saving energy costs

Posted on 15 November 2022

- We are in the midst of a cost-of-living crisis which has spread across the globe. Significant increases to the cost of food and energy have outstripped worker's salaries, and spiralling inflation has plunged countless into poverty. While the tenth day of COP27 focusses on the decarbonising our energy systems, we look at practical ways to save energy that can be actioned without spending too much money.

1. Avoid leaving appliances on standby - The average UK household spends around £65 a year on appliances that are left on standby. This is the energy consumed by an appliance when it is not in use and not switched off at the socket. You may not think about the devices that have low-level usage when not in use, such as broadband, smart speakers and telephones, but these are the ones that are usually turned on for 24 hours a day and the amount of electricity they consume adds up.. By remembering to switch off devices more often or buying a standby saver, you could be saving yourself electricity you didn't even know you were consuming.

2. Draught-proofing windows and doors - Draught-proofing is one of the most affordable and effective ways to save energy costs. It allows you to keep the warm air in your home by blocking out unwanted gaps that let cold air in – ultimately requiring less energy to heat up your home. By draught-proofing your windows and doors, you could save around £60 a year in a semi-detached house. Similarly, you could also save around £90 a year by draught-proofing an open chimney when not in use. A lot of draught-proofing can be done through simple DIY tasks at home, or professional draught-proofing can cost a bit more but last you longer.

3. Use your thermostat effectively – A large portion of your heating bills are absorbed by heating and hot water costs. By doing something as simple as turning down your central heating by just one degree, you could be saving up to £80 a year. You could also invest in a smart thermometer, which will heat your home more efficiently by only warming the room in use. They can be controlled by your phone and adapt to how long it takes to warm a certain temperature, so it can be set at exactly the right time.

4. Monitor your water usage - Water waste is something we may

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not realise is happening in our homes, but they add up and result in a large amount of total energy and water use. A dropping tap can waste more than 5,300 litres of water a year, so it's important to keep an eye on even the smallest amounts of water waster in the homes. By spending one minute less in the shower each day, a family of four could save up to £75 a year on energy and water bills. Similarly, turning off a running tap while you brush your teeth or wash your face can save more than 6 litres of water a minute!

5. Invest in energy saving appliances, like an air fryer – While it's good to buy home appliances based on their energy ratings, it's also good to research alternative types of appliances you can buy. One big change you can make is switching to an air fryer for day-to-day cooking rather than using a gas or electric cooker. Research by Utilita showed that on average they run at £55.91 a year, as opposed to a gas cooker on £121.06 per year and electric cooker on £335.57 per year.

[Find out more about COP27 and access the article 'UCEM signs up to CIC's new 'carbon zero' climate action plan' in full.](#)

UCEM signs up to CIC's new 'carbon zero' climate action plan

UCEM is one of the institutions which has signed up to the Construction Industry Council's (CIC) new climate action plan.

CIC's Climate Change Panel, chaired by its deputy chairman, Stephen Hodder MBE, led on the initiative, with signatories to the plan agreeing that:



Carbon Zero: the professional institutions' climate action plan

The signatories to this Action Plan agree that:

- the actions listed are necessary for dealing with the challenge of climate change;
- they will implement those actions appropriate to them as an institution/organisation; and
- they will support the other signatory institutions and organisations in delivering the remaining actions

© CIC 2021

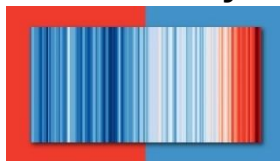
The document, entitled 'Carbon Zero: the professional institutions' climate action plan,' was released last week and coordinates the efforts of built environment institutions in meeting the UK government's 2050 net zero emissions target.

To read the plan, head to the [CIC news story – 'CIC launches a Carbon Zero climate action plan for Professional Institutions'](#).

[Access the article 'UCEM signs up to CIC's new 'carbon zero' climate action plan' in full.](#)

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UK sets 'most ambitious' climate target to cut emissions by 78% by 2035



[Image: courtesy Ed Hawkins]

(Climate stripes as shown in this image are sometimes referred to as warming stripes, or climate timelines and are data visualization graphics that use a series of coloured stripes chronologically ordered to visually portray long-term temperature trends.)

[Access further information and the *PBC Today* article, 'UK sets 'most ambitious' climate target to cut emissions by 78% by 2035', in full.](#)

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:

Libraries' contribution to SDGs

Agenda Vision: Universal literacy

Goal 3: Good health and wellbeing

Goal 4: Contribution to quality education

Goal 5: Culture

Goals 5, 9, 7: ICT skills and access

Goals 8 & 10: Decent work, economic growth, reducing inequality

Goal 16: Access to information

Note: Information plays a vital role in just about everything we do.



(UN.org 2022)

Source: Designing Buildings .co.uk Wiki (2021) '[Forgetting the big picture when considering sustainability](#)' [online], last edited 19 January. Note: "The Sustainable Development Goals icons and colour wheel are free to use" (UN.org 2021)

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

This can be avoided by following two simple rules:

- 1)** Remember that an encyclopaedia (which includes Wikipedia and any other Wiki) can be a good starting point for research and not an ending point.
- 2)** An encyclopaedia can be good for getting a general understanding of a subject before you extend your study of the subject further. But you then must consider the subject in more depth using books, 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.

(Connors State College 2022)

Book Review:

Climate Adaptation: accounts of resilience, self-sufficiency and systems change

- Where is the world really heading, and what can we do about it?

This book takes an unflinching look at climate change, drawing upon the latest data to analyse what the next decades hold in store. With atmospheric CO₂ at unprecedented levels and insufficient action being taken to prevent a rise in temperatures above 2 degrees centigrade, we are not just looking at significant disruption but the possibility of societal collapse. For the first time ever, the magnitude of this challenge is faced head on, with avenues to truly address it presented. Case studies and models from sixteen authors around the world show ways that we can build adaptation and resilience, as well as what 'zero emissions' really mean. The book also provides a platform for those from a range of diverse backgrounds, whose unique experience and knowledge brings vital new perspectives.

Further information is available at:

Source: Thakore, Dr. R., Barinaga E [et al.] **Climate Adaptation: accounts of resilience, self-sufficiency and systems change** [print book], Arkbound Foundation, ISBN: 9781912092123

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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](#)

Latest Data Protection News [[December 2022](#)]

BBC News: Shein owner Zoetop fined \$1.9m over data breach response

- The owner of fast-fashion site Shein has been fined \$1.9m (£1.69m) over its handling of a data breach. **Keywords** include – [Data Breaches](#).

[Access the BBC News article, 'Shein owner Zoetop fined \\$1.9m over its handling of a data breach', in full.](#)

[Back to top](#)**ICO Latest News** [[December 2022](#)] -**7 December 2022 – Five businesses fined a total of £435,000 for making nearly half a million unlawful marketing calls**

The Information Commissioner's Office (ICO) has fined five companies a total of £435,000 for making nearly half a million unlawful marketing calls to people registered with the Telephone Preference Service (TPS).

14 September 2021 - ICO Blog: [Sharing personal data in an emergency – a guide for universities and colleges](#).**11 August 2021 – [ICO consults on how organisations can continue to protect people's personal data when it's transferred outside of the UK](#)****[Access the Information Commissioner's Office, 'News, blogs, and speeches' section of their website](#)****Further information, advice, and guidance (IAG) provided by the ICO**

The ICO publish detailed IAG on:

- **[Guidance on direct marketing and the public sector](#)** (ICO, August 2021)
- **[Sharing personal data with law enforcement authorities](#)**,
- **[Data sharing and reuse of data by competent authorities for non-law enforcement purposes](#)**,
- The **[Accountability Framework](#)**. (ICO, September 2020),
- **[Codes of conduct](#)** and **[certification schemes](#)**. (ICO, February 2020)
- When using data analytics on personal data, the ICO is urging all organisations to look at its toolkit. It can be found at **[ICO > For Organisations > Toolkit for organisations considering using data analytics](#)**. (ICO, February 2021)
- **[Freedom of Information Self-assessment toolkit](#)** launched in 2020 helps identify gaps in compliance.
- Further updates have been made to **[guidance for handling Subject Access Requests](#)** including a **[step-by-step guide for small businesses](#)**
- **[Building a controller-to-controller contract](#)** + template contract with guidance

ICO What's new? [[December 2022](#)]

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 in their **[ICO Guide to Data Protection](#)** as they occur, for example: In April 2021 – The ICO have published guidance on the **[National Security Provisions](#)** in Part 3 of the DPA18 and updated the **[Guide to Intelligence Services Processing](#)**.

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The ICO have published:

March 2021 – Guidance on the [national security exemption](#) in Part 2 of the DPA18.

January 2021 - Updated BCR communication following the EU-UK Trade and Co-operation Agreement to the [International transfers after the UK exit from the EU Implementation Period](#).

December 2020 - [Data Sharing Code of Practice](#), alongside a [data sharing information hub](#) with further resources and support.

Further guidance provided by the ICO.

[Read the Blog: 'Access to information: driving change through education, engagement and enforcement,' in full](#)

Copyright



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“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

Introducing Copyright: A plain language guide to Copyright in the 21st Century - Computers and the Internet have transformed the way we produce and distribute information and entertainment. This book explains copyright protection and what it means for copyright holders and copyright users. It also introduces readers to contemporary topics: (i) digital rights management, (ii) open licences, (iii) software patents & (iv) copyright protection for works of traditional knowledge.

Source: Hofman J (2009) *Introducing Copyright: A plain language guide to Copyright in the 21st Century* [e-book], Vancouver: The Commonwealth of Learning.

 **creative commons** [CC-BY-NC-ND](#)

[Access free copies of this book \(in PDF and EPUB formats\)](#)

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

Latest Copyright News [December 2022]

UK decides AI still cannot patent inventions

- The UK's Intellectual Property Office has decided artificial-intelligence systems cannot patent inventions for the time being.

A recent IPO consultation found many experts doubted AI was currently able to invent without human assistance. Current law allowed humans to patent inventions made with AI assistance, the government said, despite "misperceptions" this was not the case.

[Read the full BBC Technology news item 'UK decides AI still cannot patent inventions'](#)

[Latest 'BBC Copyright News' incl. Ed Sheeran Copyright case\(s\)](#)

Government Guidance – Changes to copyright law from 1 January 2021

- This guidance covers the impacts on UK right holders, businesses, cultural heritage institutions and consumers. Note: It is not legal advice.

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[Access the GOV.UK 'Changes to copyright law from 1st January 2021', in full.](#)

Keeping abreast of the latest developments in Information Governance: [Copyright Resources](#) – Naomi Korn Associates has developed free and openly licensed copyright, licensing and data protection help resources.

Copyright & Information Technologies in Education (CITE)



© CLA 2020

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.

As UCEM Information Governance Manager I regularly attend the Copyright Licensing Agency (CLA) CITE Forum and presented on- '[UCEM's e-Library: Our Story So Far](#)', at the [CITE Winter 2021 Forum](#), held in November 2021. *Source:* CLA (2021) [UCEM e-Library: Our story so far](#), a presentation given at the Winter 2021 CITE Forum [video], YouTube. Available at: www.youtube.com/watch?v=GmuENZHeGO0&feature=youtu.be [accessed 09 December 2022]. **Ref: From 58:05 until 1.28:41.**

- 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 - A biannual magazine for the CITE Community, 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 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 National Copyright Conference 2022

This national conference was held on 18th May and in association with Naomi Korn Associates, as well as great speakers and further experts in the field in attendance.

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The Annual CILIP Copyright Conference provided a unique and important chance to update knowledge about the crucial copyright and licensing related issues and developments. It also provides an invaluable forum for in-depth presentations by UK experts, informed debate and opportunities to ask questions.

This 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 and covered the following:

- Intellectual Property in AI and Information Management
- Government Copyright Policy following Brexit
- eBooks and copyright
- Copyright Licensing Agency update
- Controlled digital lending and the UK legislative framework
- Use of the Quotation Exception.

Sessions covered broad copyright impact for the profession incl.

- **Keynote: NFTs and its Implications for Copyright Law, Libraries and Information Organisations**

Non-fungible tokens (NFTs) captured the imagination of creators and information organisation in March 2020, when an artwork titled 'First Thousand Days' sold for \$69 million. It has since been seen as an effective means selling digital assets, particularly those which form part of a limited edition or collection.

It has the potential to transform libraries and information organisations and this talk questions how NFTs can be useful and beneficial for these organisations? Based on research conducted by *Professor Dinusha Mendis*: Professor of Intellectual Property & Innovation Law, Bournemouth University, the paper takes a leap forward into the future in presenting the various opportunities NFTs offer for libraries and information organisations.

At the same time, NFTs are not without challenges. There have been many questions raised in relation to intellectual property (IP) and ownership. A string of recent IP cases has shone a light on just how challenging NFTs can be for the IP framework, which we have at present.

- **Exceptions to Copyright**

In this talk *Margaret Haig*: Head of Copyright Operations, The Intellectual Property Office (IPO) raises the question – How can the existing copyright framework help or hinder cultural heritage organisations in their work? This presentation highlighted some of the copyright issues and update on the latest relevant developments.

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- **The question of #ebookSIS: is copyright reform the answer?**

The Covid-19 pandemic highlighted the tensions and dysfunction of the academic publishing industry as never before, issues that had been bubbling under the surface for years were brought to a head by the sudden closure of universities and libraries and resulting pivot to entirely digital learning provision. The unavailability of many ebooks, the high prices, restrictive licences and building practice of many publishers meant that librarians were hamstrung by the impossibility of providing all the required resources for our users digitally.

The #ebookSOS campaign was born out of this situation and has been campaigning on several fronts for an investigation into the practice of academic publishers, wider awareness for staff and students on the impact of these issues, Open Access alternatives, and for copyright reform that will prioritise educational and research uses over corporate profit margins, via controlled digital lending, the reduction of restrictive licences to control use, and moves to allow libraries to own content, rather than merely licence access. These issues are not unique to the UK or indeed unique to academic libraries.

The #ebookSOS campaign has partnered with LibraryFutures (USA) and Knowledge21 (Europe) to raise awareness and coordinate international pressure to force change and make libraries more equal partners in our relationship with publishers.

Caroline Ball: Academic Librarian, University of Derby

- **An Act for the Encouragement of Lending? UK Copyright Law and Access to Digitised Collections in Libraries**

The ongoing pandemic has brought into sharp focus the difficulties faced by libraries in trying to meet the needs of their users through online provision of library resources. The cost of commercially available ebooks is one difficulty and gaps in availability of electronic versions of vital resources is another. One possible solution to the latter issue is Controlled Digital Lending, this is lending digitised copies of items in library collections under controlled conditions.

The aim is to provide access to items already owned by libraries without compromising the right to control use and income for rights holders. Lending of copyright works is a restricted act under UK copyright law. While copyright law provides for library lending, the legal bases for controlled digital lending are uncertain and current licensing schemes do not fully meet CDL needs. **Dr Adrienne Muir:** Senior Consultant, Naomi Korn Associates explored these issues and possible solutions further.

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- **The quotation exception in education and scholarly contexts**

In this presentation, **Professor Tanya Aplin**: Professor of Intellectual Property Law, King's College London, will consider the ways in which the quotation exception in s.30(1ZA) of the CPDA 1988 can allow for various uses of copyright works for educational and scholarly purposes.

- **CLA Licensing and Product Innovation**

James Bennett: Head of Rights and Licensing, Copyright Licensing Agency provided an update on new developments in CLA licensing and technology solutions for the education, corporate and public sectors.

Other talks included:

- **License to View: Copyright & Films in the Age of Covid at a Canadian University – Amy Lorenz**: Metadata and Copyright Librarian, Saint Mary's University – Halifax, Canada
- **The Trouble with TDM – Matthew Lamber**: Head of Copyright, Policy & Assurances
- **Towards Better Sharing of Cultural Heritage – Creative Commons' Agenda for Copyright Reform – Brigitte Vézina**: Director of Policy, Open Culture and GLAM, Creative Commons

Lightning talks included

- **Copyright and Research Data - Dr Hina Zahid**: Senior Research Data Services Officer, University of Essex
- **Going Ape! NFTS and ownership issues in Web3 – Eilish McLaughlin**: Sales and Marketing Consultant, PRFS Europe
- **The Modernist Archives Publishing Project (MAPP) and Copyright – Helena Clarkson**: Project Archivist, University of Reading

Further information is available at: CILIP (2022) '[CILIP Copyright Conference 2022 programme](#)'. CILIP.org.uk, Events.

[#CILIPCopy22](#) / [#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 always handled in a way that is compliant with data protection law and our Data Protection and Privacy policies. While we must adapt to comply with the official guidance, we will adjust our working processes to allow us to deliver our services. These are time limited instructions 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 seems sensible at present] in line with experience and how staff report it is working.
5. **Reissue and emphasise 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.
7. 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.
8. 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.
9. 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.
10. 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 -

- (i) On the [UCEM Website](#),
- (ii) **VLE Help Page** (for students), and
- (iii) within the **[UCEM Website Home > Supported Online Learning > e-Library](#)** current awareness services, incl. Information blog and ***Knowledge Foundations*** (for all).

#BE Informed

(iv) 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)

"Perseverance will get you anywhere."

@NASAPersevere / #NASAPersevere

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A

Advance HE (Previously HEA – Higher Education Academy) is dedicated to helping higher education shape its future. Providing insight, enhancing organisational performance, developing, and connecting people, and accrediting achievements. Advance HE [online]. Further information is available at: www.advance-he.ac.uk [accessed 22 December 2022]

American Society of Civil Engineers (ASCE) Civil Engineering database provides free access to over eighty thousand abstracts taken from ASCE publications since 1973. ASCE [online]. Further information is available at: www.asce.org [accessed 22 December 2022]

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 [accessed 22 December 2022]

AJ Buildings Library (AJBL) – The AJ Buildings Library highlights thousands of exemplar projects, most from the last 20 years but including major projects back to 1900. Available at: www.ajbuildingslibrary.co.uk [accessed 22 December 2022] (This valuable resource is just one part of the *Architects' Journal* subscription, available via the VLE e-Library > OpenAthens Library login > Construction Information Service (CIS) and/or EBSCO Business Source Premier).

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 [accessed 22 December 2022]

BBC Search [online]. Further information available at: www.bbc.co.uk/search [accessed 22 December 2022]

BIDSTATS [online] – Free UK tenders' portal. Find UK public sector contracts and further information available at: <https://bidstats.uk/> [accessed 22 December 2022]

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.cdabb.cam.ac.uk/AboutDBB/FAQs [accessed 22 December 2022]. 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 22 December 2022]

BOMA International (Building Owners and Managers Association International) – a federation of 91 BOMA U.S. associations and seventeen 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 [accessed 22 December 2022]

British and Irish Legal Information Institute (BAILLI) Case Law Search [online]. Further information available at: www.bailii.org/form/search_cases.html [accessed 22 December 2022]

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: <https://bpf.org.uk> [accessed 22 December 2022]

Building Conservation.com [online] – Information resources for conservation, restoration, and repairs. Further information is available at: www.buildingconservation.com [accessed 22 December 2022]

Building Conservation.com Articles directory by subject [online]. Available at: www.buildingconservation.com/articles/articles.htm [accessed 22 December 2022]

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 [accessed 22 December 2022]

Building Engineer [online] – Building Engineer website covers news and insights from the following topics: Building & Fire Safety; Business & Management; Construction & Building Materials; Energy & Sustainability; Health, Safety & Wellbeing; Policy & Regulations; Refurbishment; Technology & Digital Construction. Further information is available at: www.buildingengineer.org.uk/ [accessed 22 December 2022]

Building People - a technology platform and collaborative network, which 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 [accessed 22 December 2022]

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 22 December 2022]

BRE A-Z of BRE Services (from Accreditation to Zero Carbon) [online]. Further information is available at: www.bregroup.com/a-z [accessed 22 December 2022]

BRE Case Studies [online]. Further information is available at: www.bre.co.uk/podpage.jsp?id=1744 [accessed 22 December 2022]

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 [accessed 22 December 2022]

Building talk [online]. Available at: www.buildingtalk.com [accessed 22 December 2022] *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 [accessed 22 December 2022]

CBRE Research and Resources - CBRE sets the standard for global real estate research by providing clients with accurate and insightful market knowledge. CBRE [online]. Available at: www.cbre.com/research-and-reports [accessed 22 December 2022]

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 [accessed 22 December 2022]

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 [accessed 22 December 2022]

The Center for Construction Research and Training (CPWR) is dedicated to reducing occupational injuries, illnesses, and fatalities in the construction industry through research, training, and service programs. CPWR [online] and available at: www.cpwr.com [accessed 22 December 2022]

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.cdabb.cam.ac.uk/AboutDBB [accessed 22 December 2022]

Centre for Sustainable Energy (CSE) is an independent national charity that shares our knowledge and experience to help people change the way they think and act on energy.

CSE Resources [online] include - Reports & publications, Toolkits, Advice leaflets, Websites, *Energise* newsletter, Videos on The fundamentals, Improving your community building, Community-wide energy saving projects, Neighbourhood and low carbon planning, Renewable energy projects, and further Resources for schools and educators. Available at: www.cse.org.uk/local-energy/resources [accessed 22 December 2022]

Chartered Association of Building Engineers (CABE) is a member-focused non-profit organisation. CABE shares knowledge, raises standards, and develops professionals, enabling a professional construction sector that works to create better, safer, and more sustainable buildings that enhance people's lives. CABE [online]. Available at: <https://cbuide.com/> [accessed 22 December 2022]

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 [accessed 22 December 2022]

Chartered Institution of Building Services Engineers (CIBSE) – the prime source of expertise in the Building Services Industry. CIBSE [online]. Available at: www.cibse.org [accessed 22 December 2022]. N.B. Within the CIBSE website you can '**CIBSE - Search the Knowledge Portal**' covering themes such as BIM, Building Regulations, FM, Facades, Fire Safety, Lighting and Heating, Management, and project management, Residential, Sustainability, and more.

China Dialogue [online] – China and the world discuss the environment. Available at: www.chinadialogue.net [accessed 22 December 2022]

CIBSE Journal [online]. Available at: www.cibsejournal.com [accessed 22 December 2022].

CIOB Library Incl. Library and Information Services [online]. Available at: www.ciob.org/library [accessed 22 December 2022]

CIOB BIM+ online newsletter [online]. Available at: www.bimplus.co.uk [accessed 22 December 2022]

CIOB's Construction Management journal (formerly *Construction Manager*) [online]. Available at: <https://constructionmanagement.co.uk/> [accessed 22 December 2022]

CIOB's Global Construction Review journal [online]. Available at: www.globalconstructionreview.com/ [accessed 22 December 2022]

CIOB's Policy and Public Affairs portal [online]. Available at: www.ciob.org/industry/policy-research [accessed 22 December 2022]

The CIT-eA Project Creating Innovative Technology – Enhanced Assessments – a research project that explored ways to increase the number of assessments in Further and Higher Education using technology. The CIT-eA Project [online]. Available at: <http://citea.digitalinsite.co.uk> [accessed 22 December 2022]

Cities / buildings images database [online]. Available at: www.washington.edu/ark2 [accessed 22 December 2022] 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 [accessed 22 December 2022]

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 [accessed 22 December 2022]

Community-Led Housing (CLH) Toolkit: a resource for local authority and housing professionals' [online]. Available at: <https://clhtoolkit.org/> [accessed 28 June 2022]. 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 [accessed 22 December 2022]

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 22 December 2022]

COTAC Digital Bibliography [online]. Available at: http://cotac.global/digital_bib/ [accessed 22 December 2022]

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 22 December 2022]

Construction Enquirer is a news website in construction. Construction Enquirer [online]. Available at: www.constructionenquirer.com [accessed 22 December 2022]

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 [accessed 22 December 2022].

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 22 December 2022]

The **Construction Industry Research and Information Association** (CIRIA) [online]. Further information and resources are available at: www.ciria.org/default.aspx [accessed 22 December 2022]

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 [accessed 22 December 2022]

Construction Manager is the magazine of the Chartered Institute of Building (CIOB) [online] and available at: www.constructionmanagemagazine.com/ [accessed 22 December 2022]

Construction News [online]. Available at: www.constructionnews.co.uk [accessed 22 December 2022]

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 [accessed 22 December 2022]

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 [accessed 22 December 2022]

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 22 December 2022].

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**.

Copyright Licensing Agency (CLA) [online]. 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. Available at: www.cla.co.uk [accessed 22 December 2022]

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 22 December 2022]

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D

Delta T [online] is the Building Services Research and Information Association's quarterly journal.

Designing Buildings Wiki [online] and available at: www.designingbuildings.co.uk/wiki/Home [accessed 22 December 2022] 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 [accessed 22 December 2022] 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 [accessed 22 December 2022] 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 [accessed 22 December 2022]. 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 [accessed 22 December 2022]

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 22 December 2022]

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E

Education and Employers Research - Online research library marks its tenth anniversary. This online library provides a comprehensive repository of different and effective approaches to employer engagement and careers education. It brings together the latest thinking with selected

research published over the past 40 years. Education and Employers [online]. Available at: www.educationandemployers.org/research-type/research-library [accessed 22 December 2022]

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 [accessed 22 December 2022]

EngineeringUK is a not-for-profit organisation, which works in partnership with the engineering community to inspire tomorrow's engineers and increase the number and diversity of young people choosing academic and vocational pathways into engineering. EngineeringUK [online]. Available at: www.engineeringuk.com [accessed 22 December 2022]

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 [accessed 22 December 2022]

English Heritage cares for over four hundred 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 [accessed 22 December 2022]. 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 [accessed 22 December 2022] 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 [accessed 22 December 2022].

ERES Digital Library [online] and available at: www.eres.org/index.php/activities/libraryeres [accessed 22 December 2022]

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G

Great Buildings [online]. Available at: www.greatbuildings.com [accessed 22 December 2022] provides a database of buildings around the world and across all historic periods. You can search the database by building names, place, or architect name. It provides access to 3D models, photographic images, and architectural drawings.

Glenigan [online]. Available at: www.glenigan.com [accessed 22 December 2022] 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 [accessed 22 December 2022]

Global Construction Review – An online journal from the Chartered Institute of Building (CIOB) [online]. Available at www.globalconstructionreview.com [accessed 22 December 2022]

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: <https://cic.org.uk/projects/project.php?s=green-construction-board> [accessed 22 December 2022]

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 [accessed 22 December 2022]

The Guardian, Higher Education / Universities [online]. Further information is available at: www.guardian.co.uk/higher-education-network [accessed 22 December 2022]

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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 [accessed 22 December 2022]

HSE, Health & Safety in the construction industry [online]. Further information is available at: www.hse.gov.uk/construction [accessed 22 December 2022]

HSE Publications [online]. Available at: www.hse.gov.uk/pubns/index.htm [accessed 22 December 2022]

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 [accessed 22 December 2022]

Heritage Update: the online edition of the fortnightly Heritage Alliance's **Heritage Update** e-bulletin [online] and available at: www.theheritagealliance.org.uk/update [accessed 22 December 2022]

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 22 December 2022]

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: www.srhe.ac.uk/links/higher_education_statistics_and_research.asp [accessed 22 December 2022]

Historic England is the public body that looks after England's historic environment. Historic England champion historic places, helping people understand, value and care for them. Further information is available at: www.historicengland.org.uk [accessed 22 December 2022]

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 22 December 2022].

Home Builders Federation (HBF) represents and serves its members in a range of ways that include Ensuring senior politicians and government officials are aware of housing issues and the challenges faced by our members; and working with Government officials to ensure housing

policies are introduced that facilitate housing supply, in a way that is workable for the industry [online]. Available at: www.hbf.co.uk [accessed 22 December 2022]

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 22 December 2022]

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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 [accessed 22 December 2022]

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 [accessed 22 December 2022]

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 [accessed 22 December 2022]

ICE Virtual Library [online]. Available at: www.icevirtuallibrary.com [accessed 22 December 2022] 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 [accessed 22 December 2022]

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 Ireland. IHBC [online]. Available at: www.ihbc.org.uk [accessed 22 December 2022]

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 [accessed 22 December 2022]

IWFM Insight – discover leading research and resources for the workplace and facilities management profession. IWFM Insight [online]. Available at: www.iwfm.org.uk/insight [accessed 28 November 2022]

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 [accessed 22 December 2022]

IWFM Digital Magazine, facilitate - Informing workplace and facilities management professionals. IWFM *facilitate* [online]. Available at: www.facilitatemagazine.com/ [accessed 22 December 2022]

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 [accessed 22 December 2022]

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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 22 December 2022].

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 [accessed 22 December 2022] 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.journaltoocs.ac.uk/index.php [accessed 22 December 2022]

JSTOR Open Content - a digital library for scholars, researchers and students, JSTOR provides access to academic journal articles, books, and primary sources in seventy-five disciplines. Note: UCL Press publishes peer-reviewed scholarly monographs, edited collections, textbooks and journals. All of its books are available on: (a) **UCL Press**, and (b) **JSTOR** websites
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L

Leeds Beckett University's – School of the Built Environment, Engineering and Computing [online]. Further information that includes 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 [accessed 22 December 2022]

Leeds Beckett University's - Leeds Sustainability Institute [online]. Further Information is available at: www.leedsbeckett.ac.uk/leeds-sustainability-institute [accessed 22 December 2022]

Leeds Beckett University – The Library [online]. Available at: <http://libguides.leedsbeckett.ac.uk/home> [accessed 22 December 2022]

Lexology is a comprehensive source of international legal updates, analysis, and insights. Lexology publish more than 450 articles every day from over 1,100 law firms and service providers worldwide across fifty work areas in twenty-five languages. Lexology [online]. Available at: www.lexology.com [accessed 22 December 2022]

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 [accessed 22 December 2022]

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 22 December 2022]

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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 [accessed 22 December 2022]. 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

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Shoosmiths Insights & articles – Shoosmiths is a major UK law firm with a network of offices working together as one team. Read the latest insights, articles, and commentary from Shoosmiths or explore their content library that include – Placemaking; Real estate; Diversity & Inclusion; Litigation & disputes; Governance; Employment, and more. Shoosmiths [online]. Available at: www.shoosmiths.co.uk/insights [accessed 22 December 2022]

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UK BIM Framework – The overarching approach to implementing BIM in the UK. Further information on BIM Standards, Guides and Resources. UK BIM Framework [online]. Available at: www.ukbimframework.org [accessed 22 December 2022]

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UCEM e-Library is a comprehensive and valuable online resource, supplementing teaching and learning materials and enabling students to access a wealth of subject-specific and credible information to support them throughout their studies. UCEM e-Library [online]. Available at: www.ucem.ac.uk/e-library [accessed 22 December 2022]

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 [accessed 22 December 2022]

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 [accessed 22 December 2022]

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 one hundred years. ERBE Construction Films [online]. Further information is available at: www1.uwe.ac.uk/et/cp/erbe/constructionfilms.aspx [accessed 22 December 2022]

UWE, ERBE, The Construction Website is an interactive encyclopaedia covering construction, conservation and building history. It is expanded and revised on an annual basis [online]. Further information is available at: www1.uwe.ac.uk/et/cp/erbe/constructionweb.aspx [accessed 22 December 2022]

UWE, Library, Search for things: A-Z [online]. Available at: www1.uwe.ac.uk/library/searchforthingsa-z.aspx [accessed 22 December 2022]

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V

Virtual Training Suite - The Virtual Training Suite is a national eLearning service for Higher and Further Education in the UK, offering FREE "teach yourself" tutorials delivered over the Web, for students, lecturers and researchers who want to learn what the Internet can offer in their subject. This is a public service from **JISC**.

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Y

Yale Environment 360 - an online magazine offering opinion, analysis, reporting, and debate on global environmental issues. We feature original articles by scientists, journalists, environmentalists, academics, policy makers, and business people, as well as multimedia content and a daily digest of major environmental news. *Yale Environment 360* [online]. Available at: <https://e360.yale.edu/> [accessed 22 December 2022]

Z

Zetoc: Informing Research - The monitoring and search service for global research publications, providing access to over 36,000 journals and more than fifty-nine million article citations and conference papers through the British Library's electronic table of contents and over 875,000 Open Access (OA) article citations and conference papers from PubMed. Zetoc [online]. Available at: <http://zetoc.jisc.ac.uk/> [accessed 22 December 2022]

(Note: The web links provided were correct at the time of compilation.)

UCEM e-Library - The UCEM e-Library has a searchable database ([e-Library > section 9](#)) containing circa 1,000 [Useful web-links to e-Resources](#) for all subject areas covered within our programme of studies, pertaining to the built environment profession and the education sector.

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