



Knowledge Foundations

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What's in this month's issue

- **Latest UCEM News**, incl. - UCEM 'INSPIRE' event helps leaders build sustainable futures.
- **Things you need to know this week** – Government agency Homes England has launched an integrated, flexible funding spanning its land, grant and equity activities.
- **Latest Research** from Savills, RICS, CIOB, CBRE, JRF, The Smith Institute, and more.

Happy reading!

Issue 9 – September 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 practices, 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's current awareness service was to help keep students and staff informed of the education sector and industry-specific news, share current and best practices, 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

UCEM INSPIRE helps leaders build sustainable futures

- Committed organisational leadership is critically important in driving sustainability across the built and natural environment, according to contributors at UCEM's second 'INSPIRE@ events, 'Leadership for Sustainability in the Built Environment' which took place in London on Thursday 13th July 2023.

The **INSPIRE** (so that we can together **I**nfluence for **S**kills, **P**roductivity, **I**ndustry, **R**esearch and **E**ducation) event was supported by the Construction Industry Council (CIC), the Construction Leadership Council (CLC) and run in partnership with The Edge, a built environment think-tank. The event included a series of expert speeches, presentations and panel discussions.

During her Opening Address, Hannah Vickers, Chief of Staff at Mace, urged attendees to focus their organisations' efforts on tangible actions, regardless of whether they were leaders or followers in the sustainability field. Successful leadership requires knowing when to compete and when to cooperate to advance environmental performance.

Access further information on the event, and the article '[**UCEM INSPIRE helps leaders build sustainable future**](#)' in full.

Related article(s):

- [**UCEM INSPIRE event brings together sustainability leaders**](#)
- [**Foundations for success: UCEM convenes experts to improve built environment apprenticeships**](#)
- [**UCEM to convene cross industry event on enabling successful built environment apprenticeships.**](#)

Joyful celebrations at Summer 2023 Graduation Ceremony

- UCEM showed off its 200 new alumni at this weekend's (see publication date) graduation ceremonies.

The graduands became graduates at Reading Town Hall over two days alongside 600 proud guests made up of family, friends and UCEM staff. The atmosphere was certainly one of celebration and joy. After ensuring gowns and hats were on perfectly, graduands gathered with their families and friends to take pictures outside the Town Hall and St Laurence's Church before taking their seats in the grand surroundings of the concert hall.

Access further information on the event, and the article, '[**Joyful celebrations at Summer 2023 Graduation Ceremony**](#)' in full.

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['Joyful celebrations at Summer 2023 Graduation Ceremony'](#) in full.

UCEM places 13th in list of best 50 training providers

- UCEM has achieved its highest ranking yet in the RateMyApprenticeships award for the Best 50 Training Providers.

In August 2023, UCEM came 13th in a list of 50 Best Training Providers at the **RateMyApprenticeship** Awards Event – a jump of five places from 2022's results. What's more, Savills, one of our largest clients – has been named the top employer for the second year running in the list of the top 100 apprenticeship employers.

Access further information on the event, and the article ['UCEM places 13th in list of best 50 training providers'](#) in full.

Other UCEM News



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Tackling the Climate Crisis – deeper engagement from smaller and specialist universities highlighted in new report

- GuildHE – who represent 60 universities and college in the UK – has launched a new report ['Tackling the Climate Crisis'](#) which provides an in-depth insight into how smaller and specialist universities and colleges within the UK are engaging with the issue at an institutional level. The report considers five critical elements of university activity: Leadership and Governance, Teaching, Research and Knowledge Exchange, Community Engagement, and Campus Management.

The report suggests that there has been an acceleration in activities amongst universities and colleges over the last 18 months. Activities to tackle the climate crisis have become further embedded across institutions and at a more strategic level, with more institutions integrating environmental sustainable development in their curriculum.

Access the article ['Tackling the Climate Crisis – deeper engagement from smaller and specialist universities highlighted in new report'](#) in full.

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Open for applications: UCEM new masters degree to expand skills base and lead sustainability charge in built environments



© UCEM 2022

- New MSc for Innovation in Sustainable Built Environments to support more development of sustainable business in housing, development, construction and real estate.

UCEM, a university that provides education for the built environment sector globally, has launched a new Masters degree course covering sustainability and environmental management for the construction, real estate and other built environment sectors. In September 2023, the first cohort of students will focus on championing sustainability efforts, improving environmental and business impact at their organisations, and challenging established orthodoxies to ensure the best results.

The new online Masters degree from UCEM – the MSc Innovation in Sustainable Built Environments – will provide built environment professionals with the tools, knowledge and capabilities to develop sustainability professionals who want to diversity and apply their skills in different built environment sectors where they can have a significant impact. The course will equip professionals to lead their organisation's sustainability agenda, challenge assumptions and effect measurable change.

Access the article '[Open for applications: UCEM new masters degree to expand skills base and lead sustainability charge in built environments](#)' in full.

Related links:

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

UCEM Article: 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, energy, and spiralling inflation has plunged countless into poverty. In this article, UCEM takes a look at practical ways to save energy that can be actioned without spending too much money.

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

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Also:

Principal Ashley Wheaton appointed Chair of Trustees at Young Citizens

#StandWithUkraine - 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**

UCEM gains indefinite degree awarding powers

Education Department implements successful anonymous forum post post-trial

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: Homes

England launches integrated and flexible fund

- Government agency's new £1 billion fund signals fresh approach to bringing forward regeneration and homes.

Government agency Homes England has launched an integrated fund spanning its land, grant and equity activities. The new **Brownfield, Infrastructure and Land fund** has been established to bring forward strategic sites and housing-led opportunities supporting economic growth and long term housing supply. At least 60 per cent of activity will be focused on brownfield land. The agency will work with partners to find the optimum solution infrastructure, land and enabling, working flexibly on a place or individual site level and on single interventions or packages of integrated activity. It plans to invest £1 billion over the lifetime of the fund, with the aim of enabling delivery of 40,000 homes, 200,000 square metres of employment floorspace and private sector investment.

Also, this month,

- The Department for Levelling Up, Housing and Communities has set out proposals to create a fast-track planning process for Nationally Significant Infrastructure Projects (NSIPs). The consultation includes proposals to streamline the consenting process, bolster resources across the system, including at the Planning Inspectorate, and incentivise developers to engage more proactively and effectively with local authorities and communities.

- Retirement community developer Audley Group has entered a joint venture with investor Senior Living Investment Partners (SLIP) to create 600 homes in four new villages. The agreement is part of a plan by SLIP, a partnership between Pension Insurance Corporation and Octopus Real Estate, to deliver homes for up to 2000 people in 10 integrated retirement communities. The joint venture's first village, Audley Headley Court in Surrey, will see a grade 2 listed building restored and comprise 112 apartments alongside health and wellbeing facilities.

- Housebuilder Countryside Partnerships has sealed a deal to deliver 70 homes on a site in North Wingfield, Derbyshire. The agreement will see the homes for affordable rent and market sale built on a site owned by North East Derbyshire District Council, which was formerly occupied by post-war non-traditional housing. Countryside Partnerships will build the homes for the council, and they will be managed by Rykneld Homes, the council's arm's length management organisation (ALMO).

- Developer Great Portland Estates (GPE) has exchanged an option with The Crown Estate to potentially unlock the

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redevelopment of a site in London's St James's district. If exercised by GPE, the option will provide a new headlease and development agreement to facilitate redevelopment of French Railways House and 50 Jermyn Street.

- Housing secretary Michael Gove's refusal to allow Marks & Spencer to demolish its flagship store on London's Oxford Street and replace it with a mixed retail and office scheme has been condemned by the retailer's chief executive. CEO Stuart Machin said of the decision, "When 42 of the 269 shops on what should be our nation's premier street sit vacant, disregarding the expert opinion and approval of the appointing planning inspector and playing to the gallery by kiboshing the only retail-led regeneration proposal is a short-sighted act of self-sabotage by the Secretary of State and its effect will be felt far beyond M&S and the West End."

- Housing association South Liverpool Homes has joined north of England housing association consortium JV North to deliver low-carbon homes in the 2021-26 Affordable Homes Programme. The housing association is aiming to deliver 280 homes in the current programme, the majority with a top energy performance certificate rating of A. JV North's 12-strong membership includes providers One Manchester, Plus Dane Housing and Stockport Homes.

[Read the article, Smit, J. \(2023\) 'Homes England launches integrated and flexible fund' 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 [PlacemakingResource](#), scroll to the base of the homepage, and access route within 'Subscription and Registration').

Case Study: Creating more welcoming outdoor spaces for teenage girls

- A new park in Bradford has been designed to be more attractive and safe for teenage girls and inclusive to all, finds the author of this article.

Multi-use games areas (MUGAs), skate parks and BMX tracks provide plenty of opportunities for outdoor play and exercise for older children, but evidence shows that the users of such spaces are overwhelmingly male. Concerns around safety can deter women and teenage girls from using parks, with research carried out by the University of Leeds, funded by West Yorkshire mayor Tracy Brabin, finding that women in Britain are three times more likely than men to feel that space have nothing to offer them, according to Make Space for Girls, a charity that campaigns for parks and public spaces to be designed with teenage girls in mind.

Increased understanding of these issues has prompted the development of guidance to help drive change, like the resources available from [Make Space for Girls](#) and reports like

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Safer parks – improving access for women and girls, which has been produced by the University of Leeds, West Yorkshire Combined Authority, accreditation scheme the Green Flag Awards (Kepp Britain Tidy) and Make Space for Girls. All these factors are feeding into projects to create and re-shape outdoor spaces, as in Bradford, where a small green area in the Fagley neighbourhood, owned by social housing provider Incommunities, this month (see publication date) became the city's first outdoor space to be designed to be more attractive and safer for teenage girls and inclusive to all.

This debut project is part of the JU:MP: Move Play) programme to increase physical activity among children of 5-14 years of age in Bradford, which is funded by Sport England. It is delivered and evaluated by the Born in Bradford research programme hosted by Bradford Teaching Hospitals NHS Foundation Trust, by housing association Incommunities and Bradford Council.

Challenges

The 2400 square metre Fagley green space sits alongside a playground for younger children, also owned and maintained by Incommunities, and a MUGA with a basketball and football court. The green space was little used and provided a blank canvas for the £45,000 project, but its transformation raised a number of concerns. "Fagley is an area that has been stripped of assets, such as the children's centre and the community centre, deprivation is high and aspirations are quite low," explains Caroline Swain, community engagement manager at JU:MP.

Both local residents and the landowner had concerns that play equipment would be vandalised, with the latter fearing that it would not have the budget to replace any damaged equipment, "so if it were to be vandalised, it would have to be removed, leaving a further sense of loss for the community" says Swain. "it was clear that whatever was installed had to be made with fairly indestructible stuff," she adds.

Solutions

Rather than impose its own design solution, the project team worked with a local group of 11–15-year-old girls, asking them what they wanted to see in the space. "We held a series of workshops, so that we could work together to co-create a green space that would have elements chosen by the girls, but would be inclusive to all," explains Swain. The girls created mood boards and models with "wonderful ideas" she says, although aspirations have had to be scaled back to meet project constraints.

Consultation and co-design were coupled with the expertise of Bradford Council's landscape design team and Make Space for Girls' guidance to come up with the final design, which includes

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parkour equipment, different areas of seating and wildflower planting.

Community readiness has been central to project success. Since its opening the park has been well used by the whole community.

Project partners see the space providing multiple benefits. These benefits will be enhanced by animating the space with activities, events and regular play sessions and there are plans to create a Residents' association that can apply for future funding for further developments. Work continues to create more inclusive spaces in Bradford, with teenage girls being involved in the co-design of two more JU:MP projects.

[Read the Case Study, Smith, J \(2023\) 'Creating more welcoming outdoor spaces for teenage girls' 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 [PlacemakingResource](#), scroll to the base of the homepage, and access route within 'Subscription and Registration').

Analysis: What the government's long-term plan means for housing

- Government is focusing on delivering new homes in England's cities, but there are concerns measure could fail to provide homes for those in need, finds the author of this article.

There's no mention of homes on the list of Rishi Sunak's five pledges, but housing was given the prominence of announcements by both the prime minister and housing secretary Michael Gove this week (see publication date). As the prime minister reminded us, the government made a manifesto commitment to build 1 million homes over the course of this parliament, although its target to deliver 300,000 homes a year remains elusive and has been pushed even further beyond reach by the current economic downturn.

In response to its commitments, government presented a package of measures, described as a long-term plan for housing. This plan spans regeneration, inner city densification, further expansion of permitted development rights, creation of an arm's length body – the Office for Place – focusing on beauty and design, a “super-squad” of planners to drive through major housing development and more resources for local planning authorities. If some of these measures sound familiar, it is because they reflect current government priorities, forming part of a broader policy landscape that includes the Levelling Up and Regeneration Bill and amendments to the National Planning Policy Framework (NPPF).

Media headlines have highlighted the government's plan to establish a Cambridge Delivery Group, led by Homes England

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chair Peter Freeman, to plot a course for the Cambridge's expansion through the creation of a new urban quarter with laboratory space and, reportedly, up to 250,00 homes.

Local councils have been quick to react to the proposal. Cllr Mike Davey, leader of Cambridge City Council, highlighted the challenges identified in its emerging local plan for Greater Cambridge, "most notably the water shortage, a continuing housing affordability crisis and a lack of sustainable transport infrastructure". South Cambridgeshire District Council leader Cllr Bridget Smith said that the council has identified a need for 50,000 homes, but added, "When we published those plans earlier this year (2023), we said very clearly that that level of growth could only be delivered if the challenge over water supply could be solved, and the environment, including our vital chalk streams, is enhanced and improved."

A string of new development corporations is also in prospect under the government's plan, as well as further permitted development (PD) rights for commercial, warehouse and agricultural buildings to be converted to homes.

Launching the long-term plan at London's King's Cross, [Gove said](#) that there could be support for more development on small sites, through the updated NPPF. Responding to the ongoing safety questions around high rise building in the wake of the Grenfell fire, he also announced a Cladding Safety Scheme and a new 18 metre threshold for provision of second staircases in new higher rise buildings, rather than the 30 metres that had been initially proposed by government.

[Further information and read the article, Smit, J. \(2023\), 'Analysis: What the government's long-term plan means for housing' in full.](#)

Also: Analysis: Property prospects for 2023

[Smit, J \(2023\), 'Analysis: Property prospects for 2023'.](#)

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

Advice: Minimising overheating in new housing

- In the face of climate change, planners and urban designers need to consider how new homes will be cooled from the earliest stages of development, finds the author of this article.

According to the Met Office, June 2023 was the hottest month on record, and as climate change brings excessively hot summers and intense heatwaves, more people could find they are living in homes that reach uncomfortable temperatures.

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“Last year’s changes to building regulations seek to ensure new homes are better ventilated to ensure thermal comfort in the summer as the climate changes and the planning system needs to reflect that too,” says sustainability consultant Julie Godefroy. Back in 2015, a report from sustainable housebuilding body the Zero Carbon Hub said “it is clear that overheating is happening – potentially in up to 20 per cent of the housing stock in England. The expectation that the issue will worsen in the future is further cause for concern.” Godefroy says that the dangers of overheating need to be taken seriously in the south east and particularly London.

Here are five key issues to consider when designing new homes to reduce overheating and the need for air conditioning.

1. Address overheating in masterplans and site layouts – In June 2022, part O of the building regulations came into force, which requires that all new housing designs are subject to assessment in terms of overheating risk. Being able to ventilate the home effectively is the best way to tackle overheating.

2. Maximise ventilation from windows - Windows provide ventilation but can cause solar gain. Windows facing westwards should be avoided where possible because they are hard to shade.

3. Integrate shading into the building’s structure – Most homes require shading to avoid overheating from between the north west and north east. Shading needs to be building into the building’s structure. External shutters are more effective than internal shading because they stop the heat coming into the home. Balconies can offer shading to the homes below.

4. Plan the internal housing layout to aid cooling - “If a site is next to a busy road or railway line, you want to avoid having the bedrooms on that side of the development because of the noise when window’s are opened,” says Rory Bergin, partner at architect HTA. “Security issues also needs to be taken into account”, he adds.

5. Design areas around the housing to cool the air – The areas surrounding the homes needs to be considered to reduce internal overheating.

Landscaping can create a microclimate, reducing temperatures by at least a couple of degrees centigrade.

[Further information and read the article, Kochan, B. ‘Advice: Minimising overheating in new 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 [PlacemakingResource](#), scroll to the base of the homepage, and access route within ‘Subscription and Registration’).

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Education Latest [July 2023]

[Access the latest Education news](#)

[Fewer BTec pupils to face results delays this year](#)

- Some of last year's (2022) students say they lost university places when their results were delayed.

Fewer students taking vocational qualifications are expected to face delays to their results this year, England's regulator Ofqual says. **For Education, see also:**

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

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

BBC Latest – Climate [August 2023]

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

[Oceans break heat record, with grim implications](#)

- The oceans are a vital regulator for the climate and our weather but are rapidly heating up.

The oceans have hit their hottest ever recorded temperature as they soak up warmth from climate change, with dire implications for our planet's health. Oceans are a vital climate regulator. They soak up heat, produce half of the Earth's oxygen and drive weather patterns.

The average daily global sea surface temperature beat a 2016 record this week, according to the EU's climate change service Copernicus.

It reached 20.9C (69.73F) – far above the average for this time of year.

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 [August 2023]

Coronavirus pandemic

- Covid Inquiry: What have we learnt so far?,
- UK's pandemic strategy was wrong, says Hancock,
- Abuse of experts threatens disaster planning – Whitty,
- Isolating sooner might have avoided first lockdown, Hunt says,
- Ex-medical officer close to tears over Covid deaths, and
- Covid-19 in the UK.

[Access the BBC Health News, incl. 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 \(CM\) \(formerly Construction Manager\) \[August 2023\]](#)

[AI and collaboration among topics at Digital Construction Summit 2023](#)

- AI, data, collaboration and efficiency are among the key topics of debate at the Digital Construction Summit 2023 taking place on 11-15 September.

The **[Digital Construction Summit 2023](#)** kicks off with a panel session at 2.30pm on 11 September focused on AI's role in, and impact on, construction and the wider built environment.

On Tuesday 12 September, at 10.30am, the Elecosoft-sponsored session will focus on collaboration and at 2.30pm on Thursday 14 September, the session will answer the questions: what does good data look like?

Speakers include representatives from Aecom, BIM Academy, Buro Happold, Sir Robert McAlpine and VolkerFitzpatrick.

See the **[full agenda](#)** for more information and to register to attend the webinars.

More webinars, including the Mail Manager and NavVis sessions, will be announcement in the coming days (see publication date).

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You can watch the webinars live, or you can catch up with them on demand. Each webinar is free to attend, and it is worth one hour's CPD credit. Partners for the Digital Construction Summit 2023 are the Chartered Institute of Building (CIOB), Elecosoft, Mail Manager, and NavVis. The Summit is organised by *Construction Management* and *BIMplus*.

Further information as well as access to read the article in full – CM Staff (2023) '[AI and collaboration among topics at Digital Construction Summit 2023](https://constructionmanagement.co.uk/ai-and-collaboration-among-topics-at-digital-construction-summit-2023/)', *Construction Management* [online], 16 July. Available at: <https://constructionmanagement.co.uk/ai-and-collaboration-among-topics-at-digital-construction-summit-2023/> [accessed 26 August 2023]

Latest News: Global Construction Review (GCR) **[August 2023]**

UK 'risks losing workers to Saudi Arabia'

- The number of internet searches in the UK for construction jobs in Saudi Arabia has soared by 293% year on year, according to the online tradesperson marketplace, Rated People.

It warned that "a better quality of life and enhanced career opportunities are driving UK tradespeople to seek work abroad", with Saudi Arabia emerging as a possible destination of interest alongside Australia. Year-on-year growth in searches for construction jobs in Australia saw high growth as well, particularly jobs in plumbing (171% y-o-y growth), painting (158%), plastering (157%), roofing (130%), carpentry (129%), and tiling (129%).

Access and read the article in full, Sweet, R., (2023) '[UK risks losing workers to Saudi Arabia](https://www.globalconstructionreview.com/uk-risks-losing-workers-to-saudi-arabia/)', *Global Construction Review* [online], 4 August. Available at: www.globalconstructionreview.com/uk-risks-losing-workers-to-saudi-arabia/ [accessed 26 August 2023]

Further reading:

Developer sets record with 10 houses printed in Kenya

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 **[August 2023]** surrounding sectors such as **Real Estate** that include:

Clarity on roles and responsibilities of the Accountable Person under the Building Safety Act 2022

- The government has issued **more guidance** regarding Accountable Persons and the Principal Accountable Person under the Building Safety Act 2022 (BSA).

Also- Impact of MEES on the commercial real estate sector,
and **Analysing the top planning cases of 2022**

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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 duty holder 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 [July 2023] 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](#) [August 2023]

[End of Phase 2 Hearings](#) - 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.

Also: Latest update from the Inquiry [June 2023] – The Inquiry has published an update on the its next community drop-in session.

This update provides a digest of:

- **July 2023 Newsletter** – The Inquiry has published an update on its work.
- **End of Phase 2 Hearings** - The Inquiry has published an update

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on the end of Phase 2 hearings.

Read further information from the 'Grenfell Tower Inquiry' website.

Related Links:

By visiting the 'Built Environment Research' section of *Knowledge Foundations* and House of Commons Library, you will note under 'Housing and Planning' and within 'Social policy,' the top research briefings include - **The Cladding External Wall System (EWS)**.

Also:**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.

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

RICS latest insight report: [Women in surveying](#)

- Women in surveying and the wider built environment sector face recurring challenges through their careers due to discrimination, bias (whether unconscious or intentional) and inequity in opportunities and systemic practices. This '23 [Women in Survey insight report](#) analyses existing RISC membership data and the results of their flagship 2022 Survey of women in the profession.

RICS's aim is to offer insights on why women are not progressing in their careers and remaining in the profession. This will enable individuals, teams and organisations to reflect and further examine their own behaviours, policies and practices, and more importantly, begin their journey in taking positive action to deliver change with lasting impact.

Also: [Access Women in construction: building a career in a challenging environment](#). Twelve case studies of women working in the construction industry and their experiences.

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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 Property Monitors** – 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.
- **Market Surveys and Economic Analysis** – Used by governments, central banks, investors and other key stakeholders across the built environment, RICS market surveys provide a source of market intelligence.

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 June 2023]

- 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 21 June 2023' 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



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 Construction Manager article\(s\) entitled, 'Samaritans to work with roofers on mental health' in full,](#) and

[Banner artwork highlights construction suicides](#)

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.

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:

1. **Seeking to influence** – The NT seek to influence the planning system at local, regional, and national levels,
2. **Supporting spatial planning** – The NT support spatial planning which takes a holistic approach to its environment and its resources,
3. **Sensible management** – The NT promotes the wise management of the natural environment and built and cultural heritage,
4. **Protecting our environment** – The NT will seek to protect wild and remote landscapes from built development or urbanisation.
5. **Using property management plans** – In managing its land through management plans, the NT will support and help to achieve objectives,
6. **Objecting to proposals, where appropriate** – The NT object to land use or marine-based proposals that have a significant adverse impact on its properties and their settings and context, or in its wider interests.
7. **Using a sustainable construction approach** – When proposing development on their land to meet justified needs, the NT will use a sustainable construction approach. This will include the following:

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

The National Trusts' conservation process

The NT 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.

[Read the National Trust Land use and planning.](#)

[Access the National Trust website and our cause](#) (including Nature and climate, History and heritage, and Communities).

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

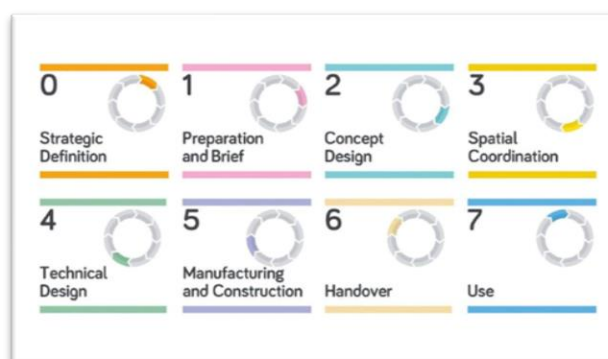
4 – Technical design – no change

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

[August 2023] –

- **Projects – Sisk Group's path to paperless procurement with Causeway, 11 July 2023.**

- As part of its digital transformation journey, Sisk Group is automating its systems and processes across 'procure-to-pay' and supplier management by implementing dedicated software solutions from Causeway Technologies. Here, IT project manager Claire Handrick discusses the challenges and outcomes of the process so far.

With a company-wide commitment to achieving net-zero emissions by 2030, Sisk Group IT project manager Claire Henrick is part of the IT projects team enabling the company's digital transformation to improve efficiency and business reporting and to eliminate the environmental impacts of previously heavy paper-based systems.

Sisk Group set out to find a digital, more strategic approach to procurement and to achieve process consistency among the

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UK and Ireland accounts payable teams.

“Originally, we had been given the task of finding a method that would improve goods received notes (GRNs), whereby items could be barcoded or QR-coded to make it easier to identify what had arrived on site,” explains Hendrick.

“However, we quickly discovered that we couldn’t tackle this in isolation and that there was, in fact, a bigger end-to-end project around procure-to-pay that needed addressing. We could solve GRNs to a point, but there was other work to be done first to enable them to be implemented fully.”

By automating Sisk Group’s payments process, Hendrick’s team knew they could increase efficiency, reduce risk from manual entry, and make full use of more accurate real-time reporting capabilities.

Gain access to further information (surrounding

- **Selecting the right partner** – Hendrick took a holistic approach to ensure that Sisk Group could maximise the benefits of digitising its current processes. It was clear that the company needed a partner that could facilitate integration across its entire procure-to-pay operation, providing software to plug the gaps.
- **Next steps: supplier management** – Sisk Group also needed a solution to manage supplier details in a single system. Previously, supplier and subcontractor details and performance had been decentralised and recorded inconsistently across different formats.
- **Performance management** – Within the next couple of years, Sisk Group expects to have a fully digital performance management system in place, including 360-degree feedback whereby its subcontractors can rate the contractor’s own performance too),

and full access to the project case study article, entitled [‘Sisk Group’s path to paperless procurement with Causeway’](#), BIMPLUS Projects.

Other BIMPLUS Projects include:

- **Projects – Glasgow university digital twins improve energy performance**, 16 June 2023.

- Digital twins of three buildings at the University of Glasgow have been used to assess how compliance models can be used to improve building performance.

Gain access to further information (surrounding Performance digital twins) and full access to the project case study article, entitled [‘Glasgow university digital twins improve energy performance’](#), BIMPLUS Projects.

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- **Projects – BIM crucial to realising complex steel geometry at Hydro Ness**, 2 June 2023.

- Featuring a striking canopy structure, the River Ness Hydroelectric generation project is both a geometrically complex build and also a key part of the local infrastructure. Hasson Engineering Solutions needed Trimble's Tekla Structures to bring the complex vision to life.

Gain access to further information (surrounding Custom components; Maintaining communication; and Demonstrating buildability) and full access to the project case study article, entitled '[BIM crucial to realising complex steel geometry at Hydro Ness](#)', BIMPLUS Projects.

- **Projects – Information management in extremis: BAM in Antarctica**, 31 March 2023.

- Ahead of his presentation at Digital Construction Week, Scott McLean of BAM reviews the role of information management in delivering the Antarctic Infrastructure Modernisation Programme (AIMP) for the British Antarctic Survey (BAS).

Gain access to further information (surrounding Extreme weather and providing clear communications) and full access to the project case study article, entitled '[Information management in extremis: BAM in Antarctica](#)', BIMPLUS Projects.

- **Projects – BIM house project strengthens community ties**, 31 March 2023.

- A BIM collaboration shows how high-quality sustainable housing can be created on a budget within rural areas and prevent first-time buyers from being priced out of their local communities.

Gain access to further information (including BIM aids design and visualisation process, A low-cost and rapid construction and A blueprint for future projects) and full access to the project case study article, entitled '[BIM house project strengthens community ties](#)', BIMPLUS Projects.

- **Projects – Mapping an historic building: Existing Condition's Atlantic challenge**, 3 March 2023.

- Needing to map a 32,000 sq. m historic building quickly and still generate high-quality data, Boston-based [Existing Conditions](#) designed a hybrid workflow after testing the [NavVis](#) mobile mapping system.

Gain full access to the project case study article, entitled '[Mapping an historic building: Existing Conditions' Atlantic challenge](#)', BIMPLUS Projects.

[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 Stavenger 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 [**July 2023**] of NBS CIS *Insights* focuses on – **Daylighting**, and covers:

- The importance of natural light,
- Glazing and passive solar design, and
- Design considerations.

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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 [August 2023]**UK Economy and Property Market Update, May 2023**

- Recession fears ease but significant challenges persist.

Summary: Economic newsflow remains generally resilient which has led the Bank of England to upgrade its growth forecast. However, concerns over inflation remain undiminished at this point which could yet lead to a further interest rate hike. At the very least, an early reversal of recent monetary tightening seems implausible. Significantly, real estate markets appear a little more settled than previously albeit activity indicators remain relatively subdued.

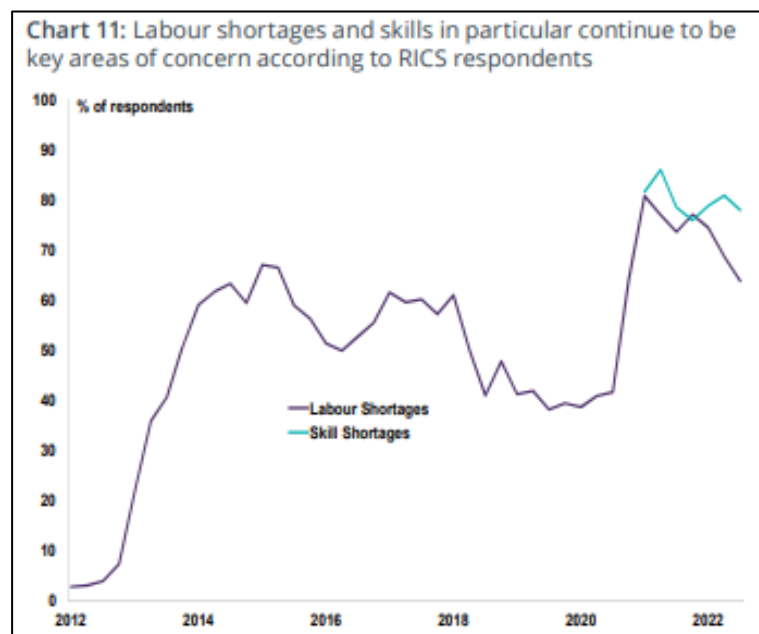
Construction Sector – The latest official data on construction activity points to a gently rising trend in output, despite the macro challenges, with total activity just over 6% above pre-pandemic levels (January 2020). Meanwhile, the *Q1 RICS Construction Monitor* also shows a modest improvement in workloads during the first three months of the year (2023).

Forward looking metrics from the survey are also painting a more upbeat picture compared with the Q4 results.

Meaningful challenges around both material costs as well as labour and skills continue to overhand the industry.

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Looking first at material costs, there is some good news with the year-on-year increase slowing to under 9% from a peak that approached 30%. Nevertheless, the direction of travel is still upwards, albeit more modestly. Moreover, the *RICS Monitor* still highlights significant concerns about this issue. At the same time, contributors to the survey remain particularly vexed by the scale of labour shortages in general and more pertinently, the difficulties in hiring skilled labour.



RICS 2023

Source: RICS Economics Research: *RICS UK Economy and Property Market Update* (February 2023), London: RICS, p5 - Chart 10.

Chart 11 shows something in the region of 80% of respondents viewing this as a factor hampering development plans.

[Read the full piece of research 'RICS UK Economy and Property Market Update, February 2023](#)

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: [June 2023](#)

- Rising interest rate expectations place renewed downward pressure on housing market activity.

- Indicators on new buyer enquiries and agreed sales slip deeper into negative territory,
- The ongoing dip in national house prices appears to gain momentum slightly during June, and
- Sales expectations deteriorate at both the three and twelve-month time horizons.

The results of the June 2023 *RICS Residential Survey* point to a renewed deterioration in sales market activity.

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This is on the back of the recent escalation in interest rate expectations. Indeed, as borrowing costs increased, many of the survey's indicators fell deeper into negative territory this month, albeit most metrics remain at least somewhat above the lows hit towards the end of last year (see publication date).

With respect to newer buyer enquiries, the national net balance slipped to -45% in June, down from a reading of -20% last month. As such, this marks an eight-month low for the buyer demand series. When disaggregated, respondents across all parts of the UK reported a firmly negative trend in buyer enquiries compared to May.

For newly agreed sales, the headline net balance fell to -34% this month, notably weaker than the figure of -8% posted last time around. In fact, June's return represents the most downbeat figure since December last year, when the net balance stood at -38%. Looking ahead, near-term sales expectations deteriorated to post a net balance of -36% in June (a four-month low), down sharply relative to the reading of -9% seen previously. On a twelve-month view, a net balance of -31% of survey participants foresee sales declining. This brings to an end a three-month run of largely stable sales expectations for the year ahead and adds further evidence of the negative impact of rising interest rate expectations on market sentiment.

Looking at supply, having picked up slightly during May, new sales instructions reportedly held more or less steady this month (net balance -1% vs +14%) previously). Meanwhile, average stock levels on estate agent's books were also little changed relative to last month (coming in at 37.4 properties). Although this level of inventory is still slightly higher than that reported at the end of last year, the average number of homes available for purchase currently remains very low on a longer-term historical comparison.

[Read the latest RICS UK Residential Market Survey: June 2023 in full.](#)

RICS - SPACIOUS 千居 Hong Kong Residential Monitor / Market Survey: [June 2023](#)

- Downturn hits sales market hardest as confidence fades across districts

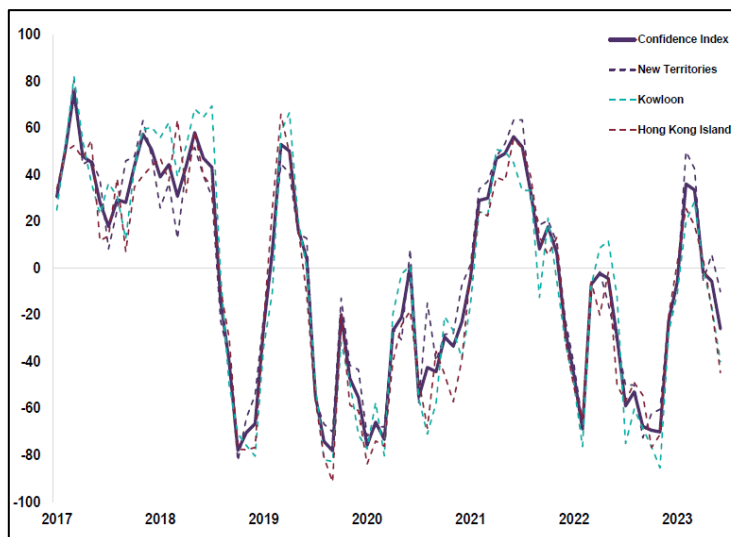
- Headline confidence index falls further into negative territory,
- The sales market sees declines in both price and sales expectations, and
- Mixed picture at district level for the rental market.

The June 2023 *RICS-Spacious Hong Kong Residential Property Monitor* results show a significant downturn in overall market sentiment. As highlighted in Chart 1, the headline Confidence Index fell from -6 to -26 over the month. The slack is seen across districts; in Hong Kong Island, the confidence index slipped from

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-17 to -45, in Kowloon from -17 to -40 and in the New Territories from +6 to -10. Meanwhile, the lettings market continues to display a more of a mixed picture.

Chart 1: Confidence Index*:



© RICS 2023

Source: RICS Economics Research: *RICS Hong Kong Residential Monitor – June 2023*, 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.

Read the latest RICS HK Residential Monitor: June 2023 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 Monitor, Q2 2023

- Outlook for CRE remains mixed with MEA and parts of APAC viewed as likely to outperform.

- Commercial Property Sentiment Index hovers in negative territory at a global level,
- Feedback from MEA and parts of APAC continues to paint a more upbeat picture,
- Rising interest rates in much of the world leads to further deterioration in credit conditions, and
- Expectations reflect polarisation between best in class and the wider market.

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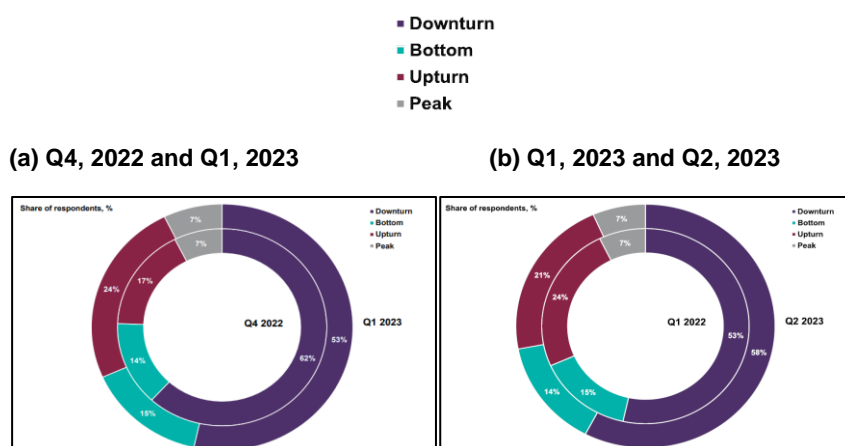
The Global Commercial Property Monitor (GCPM) Q2 2023

The results of Q2 *The Global Commercial Property Monitor (GCPM)* 2023 suggests that, at an aggregated level, sentiment remains downbeat. The headline Commercial Property Sentiment Index (CPSI) came in at -14, which compares with -11 in the first three months of the year; it has now recorded a negative result for five successive quarters. Feedback provided around both the occupier and investment market showed a modest deterioration compared with the previous iteration of the survey. In the case of the Occupier Sentiment Index, the global reading slipped from -8 to -11 while for the Investment Sentiment Index, the latest number is -17 as against -14.

Forward looking indicators on balance - The proportion of respondents who viewed the real estate market to be in a downturn globally stood at 53% (compared to 62% in Q4, 2022), as shown in Chart 6 (a), with a further 15% (compared with 14% in Q4, 2022) perceiving it to be at the bottom of the cycle.

Chart 6: Global Perceptions Regarding Point in Cycle

Share of respondents, %



© RICS 2023

Source: RICS Economics Research: *RICS Global Commercial Property Monitors*, (a) Q1 2023, London: RICS, p4 - Chart 6, and (b) Q2 2023, London: RICS, p4 - Chart

The proportion of respondents who view the real estate market to be in a downturn globally now stands at 58% (compared to 53% in Q1, 2023), as shown in Chart 6 (b), with a further 14% (compared with 15% in Q1, 2023) perceiving it to be at the bottom of the cycle.

Note: Comparisons can be made with previous *RICS Global Commercial Property Monitors* and have been covered within previous issues of *Knowledge Foundations*.

[Read the latest RICS Global Commercial Property Monitor, Q2 2023 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: **April 2023**

- Short-term measures of output by construction industry in April 2023 and contracts awarded for new construction work in Great Britain.

What's covered in the latest bulletin?

- Monthly construction output is estimated to have decreased 0.6% in volume terms in April 2023; this follows two months of consecutive growth.
- The decrease in monthly output came from a decrease in new work (1.0% fall), with a small offset from an increase in repair and maintenance (0.1%) on the month.
- At the sector level, five out of the nine sectors saw a fall in April 2023, with the main contributors to the monthly decrease being private housing repair and maintenance and private housing new work, which decreased 5.7% (£149 million) and 3.0% (£99 million), respectively.

Read the full statistical bulletin, 'Construction output in Great Britain: April 2023

Also: Latest release - Construction statistics, Great Britain: 2021 - A wide range of statistics on the construction industry, including the value of output, new orders by sector, number of firms and total employment, insolvencies and Output Price Indices.

Latest Statistics from HSE – Health and Safety Executive

Latest Key figures for Great Britain (2021/22)

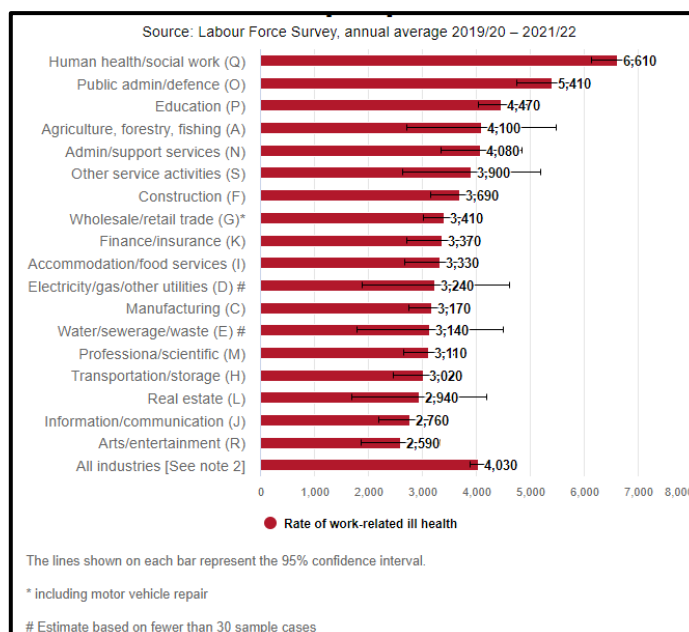
In 2021/22 an estimated 1.8 million workers (**N.B. 1.7 million in 2020/21**) were suffering from an illness they believed was caused or made worse by their work and 565,000 (**N.B. 441,000 in 2020/21**) workers sustained a non-fatal injury at work. [Source: Self-reports from the Labour Force Survey]. 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]



© Crown copyright 2023

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 17 March 2023]

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 – Real estate investment in 2023: macro outlook

- Market Trends: Savills.com, January 2023

No outlook for 2023 can avoid the topic of inflation. Coming into 2023 it was the overarching theme, fuelled first by the Covid pandemic and then the invasion of Ukraine.

On the other hand, there are positive signs. Easing supply chain shortages, falling commodity prices and weaker demand more generally, point to the possibility of inflation coming down rapidly in 2023.

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And yet the main concern for the world's major central banks is the pace of wage growth; tight labour markets, fuelled by a combination of strong job creation and a constrained supply of labour, are driving wages up.

Labour markets the pivotal factor for 2023 macroeconomics -

The outlook for 2023 is therefore contingent on developments across labour markets. Central banks are shooting for the Goldilocks Zone, but pitfalls lie either side of that target.

Too much tightening and they risk crashing the economy. Too little tightening and they risk inflation becoming entrenched via the notorious 'wage-price spiral' – necessitating a modern-day 'Volcker moment' that would also crash the economy.

Given the long and variable lags in the impact of rate hikes on economic activity, finding this sweet spot in monetary policy is extremely difficult.

Their messaging reflects this dilemma; central bankers are simultaneously emphasising a "data-dependent" approach and taking it "meeting-by-meeting," while incessantly pushing a higher-for-longer narrative on future interest rates. Clearly the two are incompatible – so expect more volatility across financial markets in 2023.

World economies set for a slow start in 2023 – In the meantime

In the meantime, recent economic data reveals little positive momentum being carried into the new year, while sentiment-based indicators suggest a further deterioration in activity in early 2023.

The global economy is likely to fall into recession, led by Europe and North America, where the cost-of-living crisis is most acute. However, the downturn should be relatively short and shallow – assuming a relatively modest deterioration in labour market outcomes.

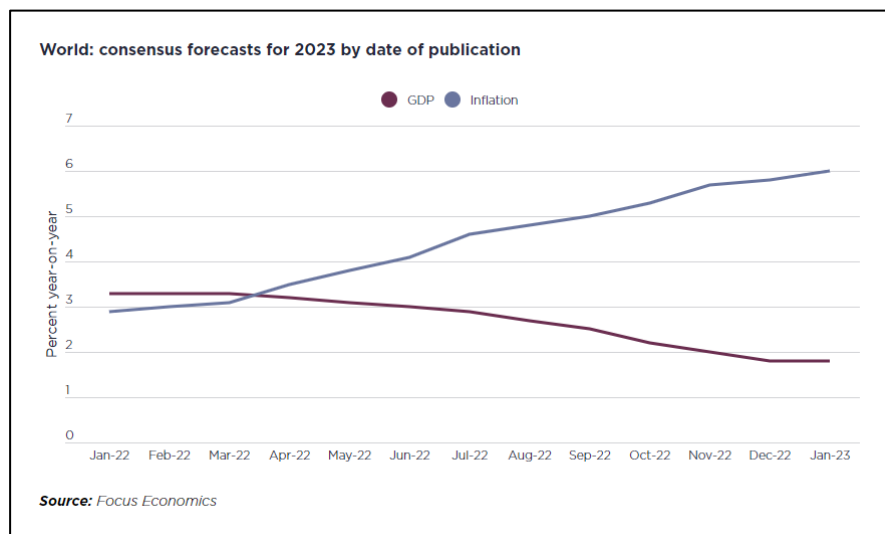
Overall, the global economy is expected to grow by just 1.8% next year (2024), well short of the 3.1% average for the decade leading up to the Covid-19 pandemic.

Fortunately, there are no obvious areas of systemic distress that could turn a recession into a depression. But there are myriad downside risks; not least in the potential spillovers from the rapid tightening of financial conditions over the past 12 months and the risk of policy misjudgements.

In the words of Warren Buffet, "It's only when the tide goes out that you learn who has been swimming naked." Highly leveraged parts of the global economy, such as housing markets, may well fall into this category. Meanwhile the war in Ukraine will continue, and warmer spring weather won't bring a sudden end to Europe's energy crisis.

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World: consensus forecasts for 2023 by date of publication



Source: Salmon, O, (2023) *Market Trends: Real estate investment in 2023: macro outlook*, Savills [online]. Available at: www.savills.com/impacts/market-trends/real-estate-investment-in-2023-macro-outlook.html [accessed 10 February 2023]

But there are also reasons for cautious optimism. Inflation has peaked, with interest rates set to follow suit. If inflation follows the path of least resistance, then the central bank pivot, which will support ailing economics, is still in play.

Developments in China are also positive. The authorities have eased zero-Covid rules; if managed correctly, this could prompt a strong domestic recovery and provide some impetus to global growth in the second half of the year.

However, if recent experience tells us anything, it is to expect the unexpected. Any exogenous shocks – relating to geopolitics, climate change, or, indeed, Covid-19 – will continue to wreak havoc on even the most conscientious of economics outlooks.

Read the article, Salmon O (2013), 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, lecturers, education, and their website, the Institute offers a platform for thought leadership on a wide range of topics.

Making retirement living affordable: the role of shared ownership for older people

APPG on Housing and Care for Older People (2023)

The Smith Institute supported the All-Party Parliamentary Group (APPG) on Housing and Care for Older People inquiry and report into the role of shared ownership housing for older people.

The report from the Inquiry Panel highlights and evaluates the key issues concerning the development of the market for shared ownership for older people, with particular regard to the government's current Older People's Shared Ownership (OPSO) scheme. It then, in respective sections on the key issues, comments on the current situation and set out recommendations for improving the offer and supporting the growth of the sector.

[Read the full piece of research, 'Making retirement living affordable: the role of shared ownership housing for older people.'](#)

Temporary accommodation at crisis point: Frontline perspectives from London and Greater Manchester

Farrelly, M., and Hackett, P, The Smith Institute (2022)

- This report examines statutory homelessness and temporary accommodation (TA) in London and Greater Manchester.

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It is a public-policy facing report to shed light on what is currently happening with the supply and demand of TA and to open up a wider discussion around what can be done to improve the situation going forward. It is not intended as an academic or technical comparative analysis of the different boroughs homelessness activities.

The findings and evaluations are based on extensive desk research and one to one interviews with housing officers and other housing professionals, housing providers, investors, politicians, experts, homelessness charities and campaigners. We also hosted two virtual roundtable discussions in the Spring of 2022 on Greater Manchester, chaired by Paul Dennett, Salford City Mayor and Deputy Mayor for Greater Manchester, and on London, chaired by Tom Copley, London Deputy Mayor for Housing and Residential Development.

Where relevant we have highlighted what specific boroughs are doing and have included examples of best practice and new ideas and approaches. We have laced the report with anonymised quotes from the interviews and made reference to the work of the GLA, London Councils, GMCA and other relevant organisations. We have evaluated the data and opinions and on the basis of what we've offered a series of talking points and policy recommendations. The concept of a TA system as used in this report combines the boroughs' statutory duties under the Homelessness Reduction Act (2017) and their responsibilities under relevant housing legislation and regulations.

The report covers the GLA and the 32 Greater London boroughs and the GMCA and its boroughs (Bolton, Bury, City of Manchester, Oldham, Rochdale, Salford, Stockport, Tameside, Trafford, Wigan). The data was drawn mainly from DLUHC, GLA, GMCA and other official statistics, as well as information collated by the boroughs, housing charities and professional bodies.

[Read the full piece of research, 'Temporary accommodation at crisis point: Frontline perspectives from London and Greater Manchester.'](#)

Understanding the impact of almshouse charities in the pandemic.

Hunter, P., The Smith Institute (2022)

- This independent study, commissioned by The Almshouse Association, seeks to understand the impact of the pandemic on almshouse charities and their residents, examine the difference almshouse charities have made, identify the lessons that can be drawn from the past two years; and highlight challenges the sector faces going forward.

[Read the full piece of research, 'Understanding the impact of almshouse charities in the pandemic.'](#)

[Back to top](#)**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 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.'](#)

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.'

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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.'](#)

Publications – The Smith Institute

[- 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.](#)

[- A National Housing Conversion Fund: buying properties to boost affordable housing supply.](#)

[- 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.](#)

[- 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.'](#)

LATEST: [CBRE \(2023\) 'UK Real Estate Market Outlook 2023'](#)

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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 **August 2023**, the [latest news & insights](#) include:

- **News & Opinion –**
 - [UK construction workloads a mixed picture while infrastructure remains as area of strength](#),
 - Building Safety Act Frequently Asked Questions
- **Digital Transformation –**
 - Digital facilities management: Measuring social performance,
- **Natural Environment –**
 - The future is bright: the future is active travel,
 - In the saddle: Has COVID-19 made cities safer for cyclists
- **Fire Safety –**
 - Cladding External Wall System (EWS) FAQs)
 - [RICS Fire Safety Hub](#) – read the latest guidance and development from RICS in the area of fire safety,
- **Also: [The future of BIM](#)** – An overview of what BIM is and how it is evolving, and

7) CIOB – Chartered Institute of Building

The quality of the built environment effects every member of society. As a professional body that represents the leaders and managers who work at every stage of the lifecycle of a construction project, The 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 **August 2023**, the latest CIOB Policy and [Research](#) include:

Economic and Social Impact

- *The Real Face of Construction 2023* – Launched in April 2023, The Real Face of Construction presents a picture for each economic region of the United Kingdom and Ireland, highlighting how the construction industry has performed in recent years. (25 April 2023)
- *CIOB Special report on Social Value for SMEs* (2 May 2023)

Ethics research

– *Understanding Mental Health in the Built Environment; The State of Well-being in the Construction Industry, and Building a Fairer System: Tackling modern slavery in construction supply chains.*

Education and skills research

– *Exploring the impact of the ageing population on the workforce and built environment.*

[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 updated their website that is now broken down into the following sections or subject areas:

Services that include Research, Resources, Training & Events,

Brexit and UK-EU relations – Research covering key Brexit moments negotiations the EU and its institutions and UK-EU relations after Brexit.

Coronavirus – Research relating to Covid-19 from the Commons Library and other parliamentary research services.

Economy, Business and Transport – Research on the economy, business transport and work and incomes. Also includes Economic Indicators and monthly economics updates.

Home Affairs incl. Research on 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 **August 2023**, the latest House of Commons Library, **Research publications** incl.

1. Research for future Commons business,
2. Interest Rates and Monetary Policy: Key Economics Indicators,
3. Clean Air Zones, Low Emissions Zones and the London ULEZ, and
4. Support for Mortgage Interest loans.

Review House of Commons Library, Research for this week

As of **August 2023** the latest **House of Commons Research**:

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

1. E-petitions debate: Pay and financial support for healthcare students,
2. University strike action in the UK,
3. Lifelong Learning (Higher Education Fee Limits) Bill: Progress of the Bill,
4. Estimates: Spending of the Department for Education on post-16 Further Education, Colleges and Adult Education, and
5. School inspections in England: Ofsted, and
6. Student loan statistics.

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

1. Support for Mortgage Interest loans,
2. Housing Market: Key Economic Indicators,
3. Leasehold reform in England and Wales: What's happening and when?
4. What is affordable housing?,
5. The Cladding External Wall System (EWS),
6. General debate on building safety and social housing, to mark six years since the Grenfell Tower tragedy, and
7. Planning and solar farms.

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

1. Constituency data: Households off the gas grid,
2. Rising cost of living in the UK,
3. Planning and solar farms,
4. Estimates Day debate on the spending of the Department for Energy Security and Net Zero on energy infrastructure,
5. Flood Re and household flood insurance,
6. Local authority data: Electric vehicles and charging points,
7. Clean Air Zones, Low Emission Zone and the London ULEZ,
8. Sustainability of heritage sites across the UK, and
9. Research on the increasing cost of living and inflation.

[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 (**August 2023**), 'Getting fizzy with it: valuing viticulture in England' – Since Taittinger's multimillion pound acquisition of 69 hectares of land in Kent, winemakers have been paying much greater attention to the region's grape growing prowess.

Subject Terms/Keywords: Economics; Environmental management; Environmental surveying; Land and resources; Rural; and Rural economy.

Latest articles within *Modus*:

- **Under the sea: how marine surveying maps the unknown** – Hydrography is one of surveying's lesser-known specialisms, but the biggest in terms of the sheer areas of the world it is covering. And there's still much to be discovered ...

Subject Terms/Keywords: Environmental surveying; Geomatics; Marine environments; Research; and Technology.

- **Andrew Reynolds FRICS: from bricklayer to the boardroom** – *Modus* meets the global chairman of Rider Levett Bucknall to discuss how the industry has changed during the past two decades and its biggest opportunities for innovation.

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Subject Terms/Keywords: Building surveying; Corporate real estate; Projects and people; Quantity surveying and construction; RICS standards and guidance; and Technology.

- Ann Gray FRICS (2023), **‘Rediscovering what it is to be a truly member-led institution’** – As you’ve heard me say before, in my many years of membership and every day as your President, it my fortune and please to speak and work with the many inspiring and engaging members I meet.

Subject Terms/Keywords: Commercial property; Corporate real estate; Diversity and inclusion; Projects and people; RICS standards and guidance; and Residential.

- **Art appreciation: does graffiti add value to buildings?** -

Commission artworks on the exterior of a property are often very desirable for building managers but unwanted graffiti can appear without warning.

Subject Terms/Keywords: Building control; Cities and placemaking; Commercial property; Commercial valuation; Heritage and conservation; Property finance and investment.

- **Let it grow: the 30x30 pledge to protect biodiversity** – Nearly 200 countries have signed a deal to conserve 30% of land and seas by the year 2030 – how will this be regulated and what does it mean for the built environment?

Subject Terms/Keywords: Environmental management; Environmental surveying; Land and resources; Land rights; Rural; and Rural economy.

- **Hybrid modular construction: is it the future?** – The UK is navigating some early bumps in the road with modular, while the sector is more developed in Asia, Scandinavia and the Netherlands.

Subject Terms/Keywords: Building surveying; Economics; Materials and resources; Quantity surveying and construction; and Sustainability.

- **Are data centres too demanding on raw materials** – As global demand for data storage continues to grow, more physical spaces to house servers are needed. But a balance between data demand and environmental concerns must be struck.

Subject Terms/Keywords: Data management; Facilities management; Land and resources; Materials and resources; Minerals and waste management; and Technology.

- **Buildings that elevated cities: The Hub on Causeway** – The vast mixed-use project was a catalyst for regeneration in Boston and is even home to a beehive named Buzzingham Palace.

Subject Terms/Keywords: Cities and placemaking; Commercial

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Property; Commercial valuation; Projects and people; and Property management.

- Who owns what: formalising land tenure rights in Africa –

Many Africans are unable to demonstrate that they own the land on which they live, which means they lose a valuable source of personal wealth.

Subject Terms/Keywords: Dispute management; Dispute resolution; Housing; Land and resources; Land rights; and Rural.

Also:

Alexandra Revell MRICS: renovating the Royal Albert Hall –

How do you carry out essential structural maintenance on a world-famous venue that hosts hundreds of concerts a year? *Modus* goes behind the scenes to find out,

and more.

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, **July 2023 - Issue 497** focusing on – LURB Bill to be Amended to Allow Parish Council Financial Support to Historical Religious Buildings; Draft Deal Agreed for UK to Return to Horizon Programme; Victorian Society Calls for Heritage Protection After Ushaw House Fire; and THA Manifesto coming out soon!

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, - In the latest **July/August 2023** edition, the cover feature looks at what is necessary to provide an equitably accessible workplace for everyone. In his 'True Access – True Success' feature, Nick Martindale investigates the notion that meeting environmental standards, adapting to changing occupancy patterns and competing to attract workers are seen as a typical catalysts for workplace design change in 2023.

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

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 2023. The Latest Edition [**August 2023**] focuses on – **Daylighting**, and covers -

- **The importance of natural light,**
- **Glazing and passive solar design, and**
- **Design considerations.**

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.

In-depth articles and case studies scheduled for the new volume of *Corporate Real Estate Journal* are provided overleaf.

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In-depth articles and case studies scheduled for the new volume, **Vol 12, Number 4 (2022-2023)** of ***Corporate Real Estate Journal*** incl.

Vol 12, Number 4 (2022-2023)**Practice papers**

1. Tactical approaches to achieving net zero carbon buildings,
2. Successful asset data collection and management programmes in corporate real estate,
3. Managing real estate risk with environmental due diligence: Transaction strategies for environmentally impacted properties,
4. Reaching the unreachable workforce: Adopting a mobile-first communication strategy to retain employees,
5. Seizing an opportunity: Reimagining a corporate campus during the pandemic,
6. A multidisciplinary approach to decarbonisation pathways for commercial stranded assets in the UK,
7. A paradigm shift in efficiency and service for commercial buildings, and
8. The Copernican office: The rise of the activity based working paradigm.

Articles from *Corporate Real Estate Journal* (2022-23), Vol 12, Number 3 (2022-2023)**Practice papers**

1. The ESG challenge for real estate,
2. Creating a smart building strategy,
3. Building the future of library and archives Canada: Assessing readiness for transformational projects,
4. UniCredit workplace transformation 2.0: Embracing the 'new normal',
5. Navigating uncertainty: Strategies for effective medical office asset management amid economic headwinds,
6. Integration of building science and data science to de-risk an affordable strategy for building decarbonisation,
7. The post-pandemic workplace across specialised knowledge in-person (SKIP) organisations, and
8. The state of ESG investing in Canada's commercial real estate market: Opportunities and risks.

Articles from *Corporate Real Estate Journal* (2022-23), Vol 12, Number 2 (2022-2023)**Practice papers**

1. Starting the purpose: How a people-first strategy can support real estate decisions,
2. Using data-driven to create a flexible and adaptable real estate portfolio while enhancing your employee experience, and
3. The role of commercial real estate in shaping our carbon future.

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Other articles/items from *Corporate Real Estate Journal* (2022-23), Volume 12, Number 1 and 2 include –

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

Forthcoming Vol 13 (2023-24) of *Corporate Real Estate Journal*

Also:

Vol 12 (2022-23) of *Corporate Real Estate Journal*

Vol 11 (2021-22) of *Corporate Real Estate Journal*

Vol 10 (2020-21) of *Corporate Real Estate Journal*

Vol 10 (1) (2020-21) Special issue: COVID-19, CRE and workplace response

Vol 9 (2019-20) of *Corporate Real Estate Journal*

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 15(2)** includes three research papers, two innovative practice paper and one book review.

Keywords: open education, distance education, e-learning, online education, quality, internationalisation, autonomy, personality traits, scale, textbook, engagement, assignment, accessibility, inclusion.

Editorial: Introduction to *Open Praxis* **Vol 15(2)**

'Openness in Education as a Praxis: From Individual Testimonials to Collective Voices'

Innovative practice articles include:

1. 'Towards Sustainable OER Practices: The Case of Bachelor Nursing in the Netherlands',
2. 'An Initiative to Develop OER-Based General Education Courses in Higher Education'.

Research articles include:

1. 'The Cost of Success: Exploring the Impact of Textbook Costs at a Hispanic-Serving R1 Institution',
2. 'Self-Directed Learning and Intrinsic Motivation Levels in MOOCs',
3. 'Portable Lightboard Use in Online Higher Education'.

Book review(s):

1. 'Book Review of *Winning Online Instruction: A Q&A for Higher Education Faculty*'.

- The main objective of this book titled *Winning Online Instruction: Q&A for Higher Education Faculty* is to facilitate higher education instructors' online teaching. This book is designed for instructors who have some or no experience within designing and teaching online courses, or who must develop online courses quickly as well ([Hillman et al, 2022](#)).

Keywords: distance education, online learning, e-learning, higher education, question and answer, instructors.

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. 25 (2022): Issue 1 (March 2023)**, article titles include:

- 'An analysis of team projects outcomes from student and instructor perspectives in online computing degrees'.
- One of the core aims of higher education is to provide an environment for students to acquire essential skills that will help them in the workplace. The purpose of this study is to review the delivery of a team assessment format that has been

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been specifically designed for the online environment.

Also, in EUODL – [Articles by UCEM staff, incl.](#)

- 'Transcript and Accessibility: Student Views from Using Webinars in Built Environment Education,' Vol 23(2), and
- 'Massive Open Online Courses and Economic Sustainability', by Liyanagunawardena, T.R. [et al.] UCEM, Vol 18(2). Also,
- 'Open Badges: A Systematic Review of Peer-Reviewed Published Literature (2011 – 2015)', by Liyanagunawardena, T. R., Scalzavara, S [et al.], UCEM, Vol 20(2)

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. **Note:** OLJ is indexed in the **Web of Science** (ESCI) with a **Journal Citation Indicator** of 1.32, and **Scopus** citescore of 5.7 for 2021, ranking it in the 93rd percentile of all journals in **Education**. OLJ is ranked among the top 3% of all open-access journals in the field of Education.

The OLC **Online Learning Journal**, latest edition,

[OLJ June 2023 Vol 27\(2\)](#)

EADTU Conference Special Issue

Editorial - Introduction to the Special Issue – Digital Reset: European Universities Transforming for a Changing World.

Articles/Papers include:

1. Clicking with Confidence: Influence of a Student Co-Designed MOOC on Students' Emotions and Online Learning Self-Efficacy,
2. The Impact of Online Exams on the Quality of Distance Learners' Exam and Exam Revision Experience: Perspectives from The Open University UK,
3. Refugees and Online Engagement in Higher Education: A Capabilitarian Model,
4. Massive Omission of Consent (MOOC): Ethical Research in Educational Big Data Studies,

Section II

Introduction to Section II – Volume 27, Issue 2

Articles/Papers include:

1. Student Attitudes Towards Distance Learning at a Large Urban Public College,
2. Keep Learning: Student Engagement in an Online Environment,

3. The Everydayness of Instructional Design and the Pursuit of Quality in Online Courses,
 4. Data-driven Decisions of Higher Education Instructors in an Era of a Global Pandemic,
 5. Teaching Presence in Asynchronous Online Classes: It's Not Just a Façade,
 6. Remote Global Learning: The Role and Use of Virtual Exchange for U.S. and Irish Graduate Students,
 7. Online Credit Recovery School-Level Enrollment: Intended and Unintended Consequences,
- 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

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.

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. 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

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importance of sustainability and technology; and an overview of the wide range of professionals involved in the industry.

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 \(DOAB\)](#)

Benchmarking Library, Information, and Education Services

Roper, L. (2023) 'Benchmarking the impact, quality, and value of an academic online e-Library', in Baker, D., Ellis, L., Williams, C. and Wragg, C. (eds) *Benchmarking Library, Information, And Education Services* [print book], Cambridge MA: Chandos

The book contributes to practical outputs of general benefit to the sector, including customers, clients or stakeholders, offering ideas for how to identify comparative strengths and weakness and improve or enhance present practices regardless of how well institutions currently perform.

Note: In the book chapter I wrote, I look at benchmarking libraries, applying the latest quality research to current working practices and showing how the UCEM library and information services perform against its peers and the benefit this has in supporting the organisation's future strategic planning.

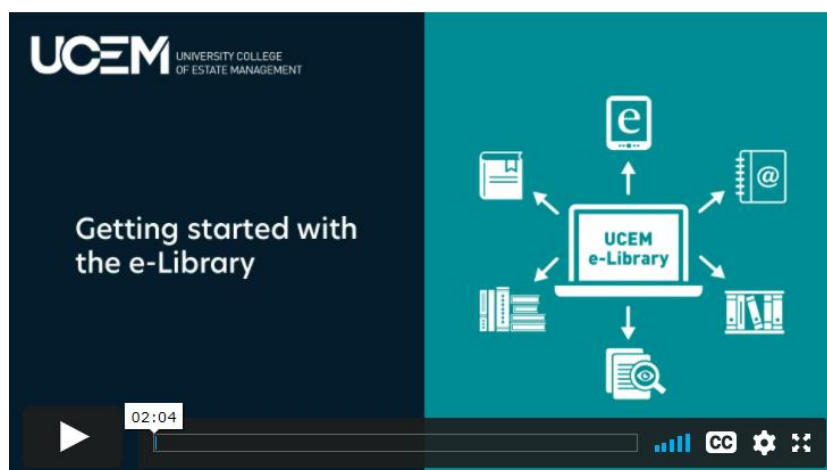
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UCEM e-Library Portrait

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 5 May 2023].

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 [2023 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.

[August 2023] - Here are some Open Access Journal articles available via Emerald, all around the theme of '**Artificial Intelligence and Education**'.

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

1. Nghiêm-Phê, B. and Nguyễn, T.H. (2022), 'University lecturers' use of active teaching methods: a segmentation study concerning trust empowerment, thinking styles and emotional intelligence', ***Journal of Asian Business and Economic Studies***, Vol 29(3), Emerald Publishing Ltd., pp. 189-204.
2. Kharbat, F.F., Alshawabkeh, A., and Woolsey, M.L. (2021) 'Identifying gaps in using artificial intelligence to support students with intellectual disabilities from education and health perspectives', ***Aslib Journal of Information Management***, Vol 73(1), Emerald Publishing Ltd., pp. 101-128.
3. Schiavone, F., and Bernhard, F. [et al.] (2023) 'Designing AI implications in the venture creation process', ***International Journal of Entrepreneurial Behavior & Research***, Vol 29(4), Emerald Publishing Ltd., pp. 838-859.



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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 [[August 2023](#)] the Hot Top Highlight – An Introduction to Structural Movement and Cracking**

In this week's blog, Property Elite explores an introduction to cracking. This will be relevant knowledge for all surveyors, particularly RICS APC or AssocRICS candidates with Inspection of Building Pathology as a technical competency.

What causes structural movement?

Buildings move all the time! Usually so slight or slowly though that the movement is not noticeable. The physical sign of structural movement is usually cracking to a building, externally and/or internally.

Movement can be caused by one or more reasons. These can be split into causes relating to the structure and causes relating to the ground. Also, decay or deterioration of building fabric.

A structural cause can include shrinkage of building materials, such as when mortar, plaster or concrete (which all have a high-water content) dry out and shrink. Also, Defective drainage.

A ground-related cause can include settlement, where foundations are too shallow or have insufficient load bearing capacity for the weight of the building.

Also, this Hot Topic Highlight covers – (i) How does cracking relate to the APC competencies? And (ii) How can I report on cracking?

[Further details and access to the Property Elite Hot Topic Highlight – An Introduction to Structural Movement and Cracking.](#)

Also –

- [Estates Gazette – APC Series – Rent Reviews and Calderbank Offers.](#)

- [Property Elite Hot Topic Highlight – New RICS Guidance Types](#)

- [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](#)



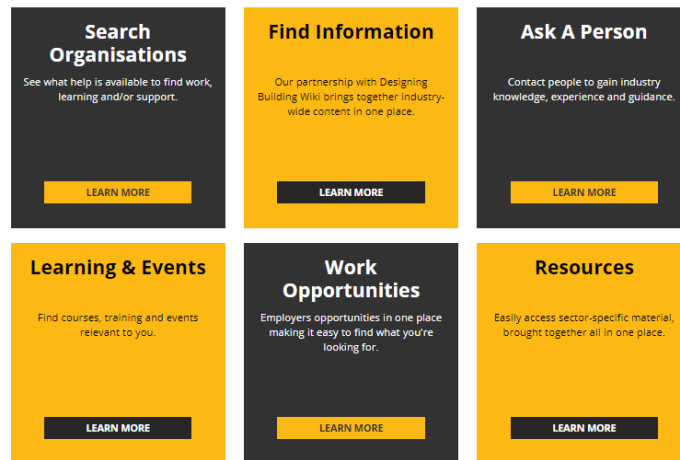
© UCEM 2021

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 focussed on the decarbonising our energy systems, UCEM looked 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:



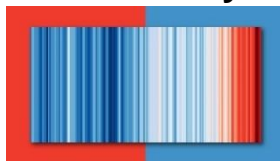
The document, entitled 'Carbon Zero: the professional institutions' climate action plan,' was released last week and coordinates the efforts of built environment institutions in meeting the UK government's 2050 net zero emissions target.

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 \(ICO\) website](#)

Latest Data Protection News [August 2023]

BBC News: Borough Council contacts 7,000 after data hack

- More than 7,000 people are written to or emailed by Colchester BC. Data from the outsourcing contractor Capita was found "on its unsecured data storage area", the council said. Capita said the data was now secure. **Keywords** include – [Data Breaches](#).

[Access the BBC News article, Dedman, S \(2023\) 'Council contacts 7,000 after data hack', in full.](#)

[Back to top](#)**ICO Latest News [August 2023] -****2 August 2023 – ICO warns of email data breach risk as it issues two reprimands**

The Information Commissioner's Office (ICO) has reprimanded two Northern Irish organisations for disclosing people's information inappropriately via email. Both the [Patient and Client Council \(PCC\)](#) and the [Executive Office](#) disclosed recipient details by using inappropriate group email options. They should have found an appropriate alternative such as mail merge.

Also: ICO urges organisations to harness the power of data safely by using privacy enhancing technologies (06/23)

ICO Blog: [Sharing personal data in an emergency – a guide for universities and colleges](#). (09/21)

[ICO consults on how organisations can continue to protect people's personal data when it's transferred outside of the UK](#) (08/21)

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](#),
- 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? [August 2023]

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: The ICO published guidance on the [National Security Provisions](#) in Part 3 of the DPA18 and updated the [Guide to Intelligence Services Processing](#) (04/21).

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The ICO have published:

Guidance on the [national security exemption](#) in Part 2 of the DPA18. (03/21)

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](#). (01/21)

[Data Sharing Code of Practice](#), alongside a [data sharing information hub](#) with further resources and support. (12/20)

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'**

LATEST: Access the newly upgraded Copyright Licensing Agency (CLA) website for further information

CLA Check Permissions tool

The **CLA Check Permissions 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 [August 2023]

New AI systems collide with copyright law

- Kelly McKernan says she "felt sick" when she discovered her artwork had been used to train an artificial intelligence system. Curiosity spurred her to type her name into a website called Have I Been Trained, which searches LAION, a data set which feeds artificial intelligence (AI) image generators including Stable Diffusion. She found over 50 pieces of artwork had been uploaded on to LAION.

Read the full BBC news item, Bearne, S., 'New AI systems collide with copyright law.'

Also: What is artificial intelligence and will it take jobs?

Latest 'BBC Copyright News' incl. Banksy Copyright case

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 9 June 2023]. **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 2023

This national and virtual conference was held on 16th May and in association with Naomi Korn Associates, as well as great speakers and further experts in the field in attendance.

#CILIPCopy23 / #copyright

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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:

- **Copyright, ethics and creator's rights,**
- **Government Copyright Policy following Brexit,**
- **International Solutions for Orphan Works and Their Applicability to UK Cultural Heritage Organisations, and**
- **Using the copyright exceptions to share content online.**

Sessions covered broad copyright impact for the profession incl.

- **Keynote: Close Encounters of the Copyright Kind: Locating the law in the everyday lives of creative practitioners**

Dr Smita Kheria, Senior Lecturer in Intellectual Property Law at Edinburgh Law School

In this talk, Smita drew upon empirical insights from her various funded projects that examined how copyright intersects with the everyday lives and practices of a range of creative practitioners (professional writers, illustrators, visual artists, musicians, and performers, as well as arts and humanities researchers and their creative collaborators, and online creative communities). She discussed how the role and value of copyright is perceived and understood by different types of creators and considered the similarities and differences in perspectives across divergent creative practices, while appraising the influence of underlying power dynamics, shifting business models, and evolving technologies. The talk concluded with some thoughts on how an appreciation of creators' perspectives on copyright could assist libraries and information organisations.

- **Navigating the copyright complexities of The British Library's *Unlocking Our Sound Heritage* project**

Matthew Lambert, Head of Copyright, Policy & Assurance, British Library

The British Library's NLHF funded *Unlocking Our Sound Heritage* (UOSH) project is a 5-year project aiming to preserve over 300,000 endangered sound recordings and make as many of them publicly available as possible. The project is now coming to the end of its fifth and final year and so this seems a good time to talk about the copyright complexities and look at the routes taken to navigate them.

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This has included:

- Difficulties of assessing copyright at scale and in complex works such as sound recordings with many layers of embedded rights.
- Clearance, both individually and at scale.
- LOML and ERA licenses.
- 'Clearance' of world and traditional music content e.g., seeking consent from community leaders where performers cannot be identified.
- Appropriateness of different license types for different content.
- Developing due diligence processes to research rights holders and manage risk.
- Making content available on site via dedicated terminals where clearance was not possible.

This session also touched on related issues such as:

- Assessing oral histories and managing data protection / sensitivity issues.
- The impact of Brexit and lockdown during the project

- **AI & IP: Where are we and where are we going?**

Ben White, Researcher at the Centre for Intellectual Property and Management, Bournemouth University

In 2014 the UK government was the second country in the world to introduce a copyright exception for text and data mining even though it was limited to non-commercial uses. Since then, European Union has introduced two exceptions permitting differing forms of commercial use.

Despite AI having huge economic importance, the UK is lagging behind many industrialised economies in terms of IP regulation of artificial intelligence. With a retreat from the Intellectual Property Office looking likely over introducing an updated exception for AI, this talk gave an up to date look at where we stand in this crucially important area of our economy.

- **Orphan Works post-Brexit: What next?**

Naomi Korn, Managing Director, Naomi Korn Associates

Orphan works - works that are in copyright but where the rights holders are unknown or cannot be traced - are a global, unsolved problem representing likely billions of items. Orphan works are particularly problematic for libraries and cultural heritage organisations who are the custodians of much orphan works material and can be committed to make them available online. Challenges can include the balancing of legal compliance versus organisational objectives, often resulting in laborious and time resource efforts in trying to locate rights holders.

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Following the UK's departure from the EU, the UK is no longer able to benefit from the EU Orphan Works Exception which provided a limited but helpful solution for the online publication of certain orphan works. Whilst the UK's Orphan Works Licensing Scheme (OWLS) remains in place, it has widely been criticised. Drawing on initial research as part of her PhD, Naomi describes and analyses the OWLS as a possible solution for orphan works. Naomi also discussed the range of orphan works international solutions which are available and critically analyse their viability to the UK's library and cultural heritage sector.

- **Can you ever use Copyright Exceptions when sharing copyright materials with a global audience?**

Debbie McDonnell, Intellectual Property Manager, British Council

We are working in an increasingly global setting – whether sharing materials with students in another country or devising digital resources aimed at an international audience. The UK copyright exceptions were updated 9 years ago to make them more suitable for the digital age – but can we use them at all for online activities where the materials will be used in many different countries?

Each country has its own copyright law with its own exceptions, however Debbie McDonnell, IP Manager from the British Council talked us through how exceptions function in a global setting and share some low and high-risk strategies for using copyright materials outside the UK under copyright exceptions or other means.

- **CLA Licensing and Product Innovation**

James Bennett, Head of Rights and Licensing, Copyright Licensing Agency (CLA) provided an update on the Copyright Licensing Agency's latest licensing initiatives.

- **Complicated copyright: What people want to know.**

Margaret Haig, Head of Copyright Operations, Intellectual Property Office (IPO)

Explaining the copyright framework to users and rights holders, as well as the general public and businesses, is one of the roles of the Intellectual Property Office. But with so many possible areas to cover, how do we choose areas on which to provide guidance? What do we include in our presentations? How can we get a wider audience for that guidance? This session will cover some of the trends in the copyright enquiries we receive, the guidance provided by the IPO to different audiences, and the copyright notice service. The session will also invite attendees to set out what copyright subjects would form a useful focus for future guidance.

Further information is available at: CILIP (2023) '[CILIP Copyright Conference 2023 programme](#)'. [CILIP.org.uk, Events](https://www.cilip.org.uk/Events).

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The Challenges of Remote Working at Present

- 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.

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](#).

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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

A to Z of useful references and web-links:

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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 26 August 2023]

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 26 August 2023]

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 26 August 2023]

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.

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 26 August 2023] (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 Ultimate).

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B

BBC Education [online]. Further information available at: www.bbc.co.uk/news/education [accessed 26 August 2023]

BBC Search [online]. Further information available at: www.bbc.co.uk/search [accessed 26 August 2023]

BIDSTATS [online] – Free UK tenders' portal. Find UK public sector contracts and further information available at: <https://bidstats.uk/> [accessed 26 August 2023]

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 26 August 2023]. 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 26 August 2023]

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 26 August 2023]

British and Irish Legal Information Institute (BAILLI) Case Law Search [online]. Further information available at: www.bailii.org/form/search_cases.html [accessed 26 August 2023]

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 26 August 2023]

Building Conservation.com [online] – Information resources for conservation, restoration, and repairs. Further information is available at: www.buildingconservation.com [accessed 26 August 2023]

Building Conservation.com Articles directory by subject [online]. Available at: www.buildingconservation.com/articles/articles.htm [accessed 26 August 2023]

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 26 August 2023]

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 26 August 2023]

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 26 August 2023]

BRE A-Z of BRE Services (from Accreditation to Zero Carbon) [online]. Further information is available at: <https://bregroup.com/a-z/> [accessed 26 August 2023]

BRE Case Studies [online]. Further information is available at: <https://bregroup.com/expertise/case-studies/> [accessed 26 August 2023]

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 26 August 2023]

Building talk [online]. Available at: www.buildingtalk.com [accessed 26 August 2023] *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 26 August 2023]

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 26 August 2023]

CBRE – With more than 100,000 professionals in over 100 countries, CBRE is the global leader in commercial real estate services and investment. CBRE [online]. Available at: www.cbre.co.uk [accessed 26 August 2023]

CBRE Insights and Research - CBRE sets the standard for global real estate research by providing clients with accurate and insightful market knowledge. CBRE [online]. Available at: www.cbre.co.uk/insights accessed 26 August 2023]

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 26 August 2023]

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 26 August 2023]

Centre for Digital Built Britain (CDBB) is a partnership between the Department of Business, Energy & Industrial Strategy, and the University of Cambridge to deliver a smart digital economy for infrastructure and construction for the future and transform the UK construction industry's approach to the way we plan, build, maintain, and use our social and economic infrastructure. CDBB [online]. Available at: www.cdbb.cam.ac.uk/AboutDBB [accessed 26 August 2023]

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 26 August 2023]

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 26 August 2023]

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 26 August 2023]

CIOB Library Incl. Library and Information Services [online]. Available at: www.ciob.org/learning/library [accessed 26 August 2023]

CIOB People - construction's new people development resource, reaching 55,000 industry professionals. [online]. Available at: <https://ciobpeople.com/> [accessed 26 August 2023]

CIOB's Construction Management journal (formerly *Construction Manager*) [online]. Available at: <https://constructionmanagement.co.uk/> [accessed 26 August 2023]

CIOB's Global Construction Review journal [online]. Available at: www.globalconstructionreview.com/ [accessed 26 August 2023]

CIOB BIM+ online newsletter [online]. Available at: www.bimplus.co.uk [accessed 26 August 2023]

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 26 August 2023]. 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 26 August 2023]

CIBSE Journal [online]. Available at: www.cibsejournal.com [accessed 26 August 2023].

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 26 August 2023]

Cities / buildings images database [online]. Available at: www.washington.edu/ark2 [accessed 26 August 2023] 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 26 August 2023]

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 26 August 2023]

Community-Led Housing (CLH) Toolkit: a resource for local authority and housing professionals' [online]. Available at: www.communityledhomes.org.uk/community-led-housing-toolkit [accessed 26 August 2023]. 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 26 August 2023]

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 26 August 2023]

COTAC Digital Bibliography [online]. Available at: http://cotac.global/digital_bib/ [accessed 26 August 2023]

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 26 August 2023]

Construction Enquirer is a news website in construction. Construction Enquirer [online]. Available at: www.constructionenquirer.com [accessed 26 August 2023]

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 26 August 2023].

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 26 August 2023]

The **Construction Industry Research and Information Association** (CIRIA) [online]. Further information and resources are available at: www.ciria.org/default.aspx [accessed 26 August 2023]

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 26 August 2023]

Construction Manager is the magazine of the Chartered Institute of Building (CIOB) [online] and available at: www.constructionmanagemagazine.com/ [accessed 26 August 2023]

Construction News [online]. Available at: www.constructionnews.co.uk [accessed 26 August 2023]

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 26 August 2023]

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 26 August 2023]

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.

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 26 August 2023]

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 26 August 2023]

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D

Delta T [online] is the Building Services Research and Information Association's quarterly journal. Bracknell: BSRIA [online]. Available at: www.bsria.com/uk/knowledge/bookshop/delta_t/ [accessed 26 August 2023]

Designing Buildings Wiki [online] and available at: www.designingbuildings.co.uk/wiki/Home [accessed 26 August 2023] 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 26 August 2023] 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 26 August 2023] 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 26 August 2023]. 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 26 August 2023]

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 26 August 2023]

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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 26 August 2023]

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 26 August 2023]

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 26 August 2023]

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 26 August 2023]

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 26 August 2023]. 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 26 August 2023] 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 26 August 2023].

ERES Digital Library [online] and available at: www.eres.org/index.php/activities/libraryeres [accessed 26 August 2023]

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G

Great Buildings Online [online]. Available at: www.architectureweek.com/search.html [accessed 26 August 2023] 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 26 August 2023] provides UK construction project sales leads, market analysis, forecasting, and company intelligence.

Global Research Gateway: CBRE's online Insights and Research – a resource for real estate research and reports. CBRE Global Research Gateway [online]. Available at: www.cbre.com/insights [accessed 26 August 2023]

Global Construction Review – An online journal from the Chartered Institute of Building (CIOB) [online]. Available at www.globalconstructionreview.com [accessed 26 August 2023]

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 26 August 2023]

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 26 August 2023]

The Guardian, Higher Education / Universities [online]. Further information is available at: www.guardian.co.uk/higher-education-network [accessed 26 August 2023]

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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 26 August 2023]

HSE, Health & Safety in the construction industry [online]. Further information is available at: www.hse.gov.uk/construction [accessed 26 August 2023]

HSE Publications [online]. Available at: www.hse.gov.uk/pubns/index.htm [accessed 26 August 2023]

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 26 August 2023]

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 26 August 2023]

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 26 August 2023]

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 26 August 2023]

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 26 August 2023].

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 26 August 2023]

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 26 August 2023]

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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 26 August 2023]

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 26 August 2023]

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 26 August 2023]

ICE Virtual Library [online]. Available at: www.icevirtuallibrary.com [accessed 26 August 2023] 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 26 August 2023]

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 26 August 2023]

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 26 August 2023]

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 26 August 2023]

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 26 August 2023]

IWFM Digital Magazine, *facilitate* - Informing workplace and facilities management professionals. IWFM *facilitate* [online]. Available at: www.facilitatemagazine.com/ [accessed 26 August 2023]

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 26 August 2023]

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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 50,642,372 records created from 142,932,638 records

contributed by 192 institutions. Jisc Library Hub Discover [online]. Available at: <https://discover.libraryhub.jisc.ac.uk> [accessed 26 August 2023].

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 26 August 2023] where you can also gain access to JISC's full digital resources offer.

Journal of Online Learning and Teaching (JOLT) - The **MERLOT Journal of Online Learning and Teaching** is a peer-reviewed, open-access, online publication that aims to promote scholarship in the use of the Internet and web-based multimedia resource in higher education.

JournalTOCs is the largest, free collection of scholarly Journal Title of Contents (TOCs) [online]. Available at: www.journaltoCs.ac.uk/index.php [accessed 26 August 2023]

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 [accessed 26 August 2023]

Leeds Beckett University's - Sustainability [online]. Further Information is available at: www.leedsbeckett.ac.uk/leeds-sustainability-institute [accessed 26 August 2023]

Leeds Beckett University – The Library [online]. Available at: <http://libguides.leedsbeckett.ac.uk/home> [accessed 26 August 2023]

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 26 August 2023]

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M

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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 26 August 2023]

Specification Online – the free to use news and online products resource for specifiers working across the architectural and building sector [online] and available at: <http://specificationonline.co.uk> [accessed 26 August 2023]

Supply Chain Sustainability School represents a common approach to developing sustainability competence in the supply chain. It is a free resource available to any supplier and is part of their continued commitment to lead the industry into a brighter, more sustainable future. Supply Chain Sustainability School [online]. Further information is available at: www.supplychainschool.co.uk/uk/default-home-main.aspx [accessed 26 August 2023]

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U

University College London (UCL) Press – UCL Press publishes peer-reviewed scholarly monographs, edited collections, textbooks and journals. All its books are available on: (a) UCL Press, and (b) JSTOR (see above).

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 26 August 2023]

University College of Estate Management (UCEM) is the leading provider of supported distance learning for real estate and construction professionals. UCEM [online]. Available at: www.ucem.ac.uk [accessed 26 August 2023]

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 26 August 2023]

UCEM Research repository – a digital online archive which will allow free access to UCEM-produced outputs, including but not limited to research publications, podcasts etc. UCEM Research repository [online]. Available at: <https://ucem.repository.guildhe.ac.uk/> [accessed 26 August 2023]

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 26 August 2023]

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: www.uwe.ac.uk/about/colleges-and-schools/arts-technology-and-environment/architecture-and-built-environment/erbe [accessed 26 August 2023]

- **UWE Construction and conservation films**
- **UWE Construction website**

UWE, Library, Search for things: A-Z [online]. Available at: www1.uwe.ac.uk/library/searchforthingsa-z.aspx [accessed 26 August 2023]

UWE, Research publications and reports – Providing immediate world-wide open access to all UWE's research output. Research at UWE Bristol [online]. Available at: www1.uwe.ac.uk/research.aspx [accessed 26 August 2023]

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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 26 August 2023]

Z

Zotero – Your personal research assistant. Zotero is a free, easy-to-use tool to help you organise, annotate, cite, and share research. Zotero [online]. Available at: www.zotero.org/ [accessed 26 August 2023]

(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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