



Knowledge Foundations

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What's in this month's issue

- **Latest UCEM News**, incl. - UCEM awarded two research grants to explore gender equality challenges in 2024.
- **Things you need to know this week** – The third phase of Government allocations from the Levelling Up Fund sees 55 projects across Britain share in almost £1bn.
- **Latest Research** from Savills, RICS, CIOB, CBRE, JRF, The Smith Institute, and more.

Happy reading!

Issue 2 – February 2024

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 awarded two research grants to explore gender equality challenges in 2024

UCEM is proud to have received two more externally funded research grants from the British Council to continue its exploration of gender equality.

These two projects follow **three previous grant received in 2023**, which led to successful research in Egypt and Jordan in the form of **project workshops** and reflect UCEM's continued efforts to champion gender equality on an international scale.

The new grants, which will focus on gender equality **Pakistan** and **Brazil**, are 12 months in duration.

Access further information on the event, and the article, '[UCEM awarded two research grants to explore gender equality challenges in 2024](#)' in full.

Other UCEM News



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UCEM to host built environment leadership event championing inclusivity

- UCEM was excited to host "Joined up leadership for an inclusive built environment", on Wednesday 31 January. Running as part of UCEM's 'INSPIRE' series,

"INSPIRE - so that we can together **IN**fluence for **S**kills, **P**roductivity, **I**ndustry, **R**esearch and **E**ducation"

this event underscores our commitment to **INSPIRE**. It embodies UCEM's dedication to reducing fragmentation and duplication in the sector, thereby enhancing the impact of existing diversity initiatives.

Access further information on the event, and the article, '[UCEM to host built environment leadership event championing inclusivity](#)' in full.

Related link:

- '[UCEM INSPIRE helps leaders build sustainable future](#)'.

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UCEM celebrates receiving ISO 14001 certification

UCEM have been awarded an ISO 14001 certification – an internationally recognised global standard that sets out the criteria for successful environment management systems.

This ISO is UCEM's first recognition of this kind. The aim of this standard is to help organisations establish an environmental management system – a framework that allows them to manage environmental issues, improve the efficiency of resource usage and reduce waste.

Being awarded this ISO:

- Demonstrates UCEM's commitment to the environment
- Increases employee engagement and environmental awareness throughout the organisation
- Improves the confidence of stakeholders and strengthens UCEM's reputation
- Provides UCEM with a competitive and financial advantage through improved efficiencies and reduced costs
- Encourages suppliers to improve their environmental performance.

The awarding of this ISO is just one part of our wider sustainability strategy and fits into the **How we operate** stated of the UCEM's ongoing [Globe initiative](#). It also addresses 13 of the [Sustainable Development Goals](#) set out by the United Nations. Rather than existing within a silo, this certification forms part of our vision to create a culture of sustainability within the organisation.

VISIT THE **GLOBE** WEBPAGE 

The next steps moving forward will be for UCEM to maintain this standard, keep up the hard work that went into achieving it, and more forward by displaying continuous improvement in future audits.

Access further information on the event, and the article, '[UCEM celebrates receiving ISO 14001 certification](#)' in full.

Related Links:

- [Globe: UCEM's ambition go create a more sustainable built environment](#)
- [Introducing: our Student Officers for Sustainability.](#)

Also: Please visit the '[Sustainability Hub](#)' within **Knowledge Foundations** for further supporting information.

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UCEM co-hosts international conference and signs partnership agreement with Batangas State University, Philippines

On November 22-24, UCEM co-hosted the sixth International Research Conference on Innovations in Engineering, Science and Technology (IRCIEST) at Batangas State University – Philippines' national engineering university.

UCEM was invited to co-host, and to sign a 5-year Memorandum of Understanding (MoU) collaboration partnership, as a leading player in sustainable built environment research. The MoU will support academic collaboration in the pursuit of mutually beneficial activities over the coming years, including research projects, conferences and webinars.

IRCIEST is a biannual conference that brings together academics, researchers, students and industry professionals from the Philippines and around the world. This event is designed to be a collaborative platform for attendants to network and share their knowledge, findings and experiences in the fields of engineering, science and technology. The overarching theme of this year's conference was ***Propelling Transformations and Accelerating Reforms through Research Innovations***. Specific focus was paid to artificial intelligence, food and agriculture and energy and environment, among many other fields, emerging technologies and approaches in the global landscape.

Learn and access further information on the [IRCIEST event](#), and the article, '[UCEM co-hosts international conference and signs partnership agreement with Batangas State University, Philippines](#)' in full.

UCEM launches 'Be part of the change' to challenge lack of representation in the built environment

- UCEM is proud to announce the launch of Be part of the change – our campaign to raise awareness and challenge the lack of representation within the built environment.

While the sector has made efforts to improve diversity and champion voices from under-represented backgrounds, there's still a lot that needs to change. Despite representing almost half of the UK's population, qualified female professionals make up **only 18% of the built and natural environment workforce**. What's more, over a quarter of Pakistani (35%), Indian (33%) and Black Caribbean (29%) employees **feel they have been overlooked for promotion** in the sector because of their ethnicity.

Access further information on the event, and the article '[UCEM launches 'Be part of the change' to challenge lack of representation in the built environment](#)' in full.

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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.](#)

Also:

[Tackling the Climate Crisis – deeper engagement from smaller and specialist universities highlighted in new report,](#)

[UCEM new masters degree to expand skills base and lead sustainability charge in built environments,](#)

[UCEM places 13th in list of best 50 training providers,](#)

[UCEM hosts hybrid workshop on gender equality in Jordan and Egypt,](#)

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

- [Access more information on UCEM's diversity and inclusion objectives.](#)

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

[UCEM gains indefinite degree awarding powers,](#)

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

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.

- [For more on UCEM's ambitions, take a look at the Institution's *Vision and Strategy* brochure](#)

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: MPs voice concern about housebuilding on flood plain

- Committee report says it is “unforgivable” to permit building homes in the flood plain without effective mitigation measures.

A cross-party committee of MPs investigating the UK’s flood resilience has said it is “unforgivable” to permit the building of houses in the flood plain without effective mitigation measures.

The Public Accounts Committee’s (PAC) report, published in January 2024, notes that the Environment Agency is a statutory consultee on planning applications that may increase flood risk, but that it does not have powers in the planning process to prevent building on flood plains without mitigation. It says the agency told the committee that 99 per cent of new homes’ planning applications complied with agency advice, but the report notes that the agency “also told us that in recent years a number of planning applications – some quite large ones – have gone against its advice”. It references Department for Environment, Food & Rural Affairs (DEFRA) research, published in July 2021 which found that over half of local planning authorities said they rarely or never inspected a new development to check compliance with flood risk planning conditions, due primarily to a lack of resources. The PAC recommends that the agency, working with the Department for Levelling Up, Housing and Communities and local planning authorities, should develop plans - including an assessment of any additional resources needed, to strengthen its follow-up process to ensure the agency’s planning advice has been fully implemented. The PAC report also finds that government lacks a measure of the flood resilience it expects to achieve, the DEFRA has not established what the appropriate balance is between building new defences and maintaining new one and that DEFRA is failing to provide leadership and support for local authorities on how risks from surface water flooding should be addressed.

Also, this month,

- Housebuilder Hill Group has acquired a former gold course site in Little Chalfont, Buckinghamshire, which has outline planning consent for a development of up to 380 homes.

- Investment manager Zenzic Capital has launched a £500 million purpose-built student accommodation (PBSA) strategy, which is targeting acquisition of existing stock and development of new assets.

- Mansfield has been awarded £20 million by the government to boost local regeneration and training, becoming the third area receiving funding under the government’s Levelling Up Partnership initiative.

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- Affordable homes provider Peabody and housebuilder Lovell Partnerships have formed a joint venture to deliver the 329-home second phase of Peabody's seven-phase regeneration masterplan for South Thamesmead, in southeast London.
- Asset management business Aviva Investors is providing £50 million to home counties affordable housing provider Hightown Housing Association.
- Housing association Bromford has sealed a deal to acquire a 217-home site in Matson, in Gloucestershire.

[Read the article, Smit, J. \(2024\) 'MPs voice concern about housebuilding on flood plain' 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: Delivering a creative and cultural cluster on a historic industrial site

- The regeneration of Wakefield Waterfront is nearing completion with the transformation of Rutland Mills, reports the author of this article.

The regeneration of Wakefield Waterfront in West Yorkshire is entering its final stages with the transformation of a Victorian centre of manufacturing industry into a hub for the creative communities of today and tomorrow.

Rutland Mills, a complex of nine historic mill buildings, is being reborn as Tileyard North, a 135,000sq ft creative industries hub for emerging and established artists and makers. When regeneration is complete, it will be the UK's largest creative community outside of London – a mixed use, creative and cultural cluster with state-of-the-art facilities.

The project, due for completion in 2024, is the product of an eight-year collaboration between Wakefield Council, developer City & Provincial Properties (CPP) and creative community Tileyard London. The £40 million project has been jointly funded by the partners, with support from the government's Levelling Up Fund and Leeds City Region Enterprise Partnership in partnership with West Yorkshire Combined Authority.

Challenges

Wakefield Waterfront has been a long-running and significant regeneration for the city, bringing a nationally significant art and sculpture gallery, offices, homes, and now creative workspace and complementary uses to an area on the periphery of the city.

The council first set its sights on regenerating the area flanking the River Calder around the turn of the millennium. A 15-year masterplan, jointly created by architect FaulknerBrowns and

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the council, was put into action and got off to a flying start with a mix of new office and residential buildings, and the development of the prestigious Hepworth Wakefield sculpture gallery in a new landmark building, designed by David Chipperfield Architects.

But before the next phase of development could get under way, the economy took a nosedive. “Our developers walked away, leaving us with Rutland Mills, derelict, run down and leaking,” recalls James Stephenson, senior development manager at the council. The council carried out essential works and elective demolition – reroofing one mill building to create additional gallery space for the Hepworth Wakefield and removing some shed buildings in the courtyard – all of which sparked some interest in the site.

In the end, that interest came not from the council’s efforts but from a chance visit to Hepworth Wakefield by CPP director Paul Kempe, where he spotted Rutland Mills, and its potential. The council supported CPP’s acquisition of the site, which was completed in 2019, and the regeneration got under way soon after.

Solution

The first phase of work was completed in December 2022 and provided 60,000sq ft of work and educational space in five buildings, all refurbishments and mostly listed. A central courtyard with restaurant and bar and an internal multi-functional event space forms the social heart for the local community. The spaces have hosted numerous events, ranging from regular regional food markets and craft fairs to gala dinners and large weddings.

The second phase of the regeneration, due to complete this year (2024), provides office space in a new building, while a grade 2 listed mill buildings is being refurbished and repurposed to create further complementary leisure offer. Originally, it was hoped that the historic buildings could be entirely naturally ventilated, but the refurbishment works have had to incorporate mechanical ventilation for soundproof facilities. The addition of lifts was also essential, with the council encouraging external additions in order to minimise damage to the historic buildings’ fabric. The new lift towers reference the site’s industrial heritage in their design but form a contemporary contrast to the brick buildings. The same can be said of the chimney to a former engine room in the courtyard, which has been retained and wrapped in a steel lattice frame that is illuminated by night.

The last building to be refurbished in phase 2 presented a significant refurbishment challenge, because of the lack of alignment between its floors and windows. Negotiations with Historic England led to a decision to move the floors into alignment, which has results in one floor – at attic level – being lost but gives the new top floor a generous floor-to-ceiling height, enhanced by exposed beams.

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Read the Case Study, Smith, J (2024) 'Delivering a creative and cultural cluster on a historic industrial site' in full.

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

Analysis: Verdict on the chancellor's autumn 2023 statement

- The autumn statement contains measures aimed at driving housebuilding, regeneration and growth but those in the industry question if they go far enough, finds the author of this article.

In his speech to the House of Commons last week (see publication date), chancellor Jeremy Hunt said that his autumn statement contained 110 growth measures. For England's regions, there's the prospect of four new devolution deals – for Greater Lincolnshire, Hull and East Yorkshire, Lancashire and Cornwall – as well as progress on single settlements for the devolution trailblazers of Greater Manchester and the West Midlands.

Local planning authorities will share in £32 million funding to address planning backlogs, and plans were announced to enable councils to fully recover the cost of planning fees for major applications, where decision meet required timescales. There is £110 million for a Local Nutrient Mitigation Fund, to address the nutrient pollution concerns holding back housebuilding activity in some areas. There will also be a consultation next year on a new permitted development right, which is intended to allow homeowners to convert a house into two apartments.

For the affordable housing sector, support includes £3 billion for the Affordable Homes Guarantee scheme, which supports measures to retrofit and provide affordable homes. But one of the biggest announcements will help tenants on the lowest incomes, as government has lifted the freeze on its local housing allowance benefit, raising it to 30 per cent of local market rents from next April (2024).

What the industry said:

The new devolution deals have been broadly welcomed but Andrew Carter, chief executive of urban think tank Centre for Cities, pointed out, "We are still a long way from a devolution framework that gives mayors extra incentives to promote economic growth. In order to do that, single settlements will need to be combined with fiscal devolution".

Shaun Davies, chair of public sector body, the Local Government Association, said that the new wave of devolution deals, "needs to signal a genuine 'local first' approach to policy making across

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Whitehall, to ensure as many communities as possible benefit from devolution, including the removal of burdensome negotiations and top-down imposition of new structures”.

Davies also welcomed moves to help unblock the planning system, arguing that government commitment to ensuring councils will be able to set planning fees to cover the full cost of processing some major applications “will mean local taxpayers no longer have to foot the bill”.

Royal Town Planning Institute (RTPI) chief executive Victoria Hills said more detail on funding to tackle the backlog was “eagerly” awaited. “A full cost recovery of planning applications for businesses will be a step toward providing local planning authorities with the essential resources they need to help both communities and businesses thrive,” she added. RTPI estimates that 15 percent of planning applications processed by local planning authorities come from businesses.

[Further comments from industry, information and read the article, Smit, J. \(2023\), ‘Analysis: Verdict on the chancellor’s autumn statement’ in full.](#)

Also: Analysis: Property prospects for 2023

- The UK may be desyined for recession this year (2023), but proptery and construction industry forecasters see some bright spots among the gloom.

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

Advice: Controlling short-term holiday lets

- Measures are coming forward to control short-term letting of homes to tourists, but councils needs to develop strong planning policies and be prepared to enforce regulations, finds the author of this article.

The advent of Airbnb and other online platforms have facilitated the use of thousands of homes for short lets for tourists and other visitors in many urban and rural areas. “This huge growth in short lets is driving up housing costs and causing the loss of housing for local communities,” says Dan Wilson Craw, deputy director of Generation Rent, a campaign group which represents the interest of private tenants.

“Homes are being taken out of the private rented market to be used as short-term holiday lets because their owners can make more money from tourists,” he says. Generation Rent estimated that in 2022 there were around 73,000 holiday lets in England that are registered for business rates. There are also 256,913 second homes. “Holiday lets are concentrated in major cities, particularly London, Manchester, Bristol and Leicester, as well as many towns and villages, and it’s growing fast,” he adds.

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Anna Evans, director of housing research consultancy Indigo House says that a study published in 2019 for the Scottish government showed that holiday lets rose three-fold between April 2016 and May 2019, to an estimated 32,000 in Scotland. At that point, there were around 12,000 Edinburgh. The 2019 study provided part of the background for the Scottish government's introduction of controls on short-term lets last year (2023).

Here are three key ideas for trying to control the growth of holiday lets.

1. Use planning controls to manage the growth of short-term lets – “As the new systems come in, local plan policies which limit planning permissions for homes to be used as holiday homes will be important,” says Cliff Hague, freelance planning consultant and researcher. “Councils will also need good information about the location of the holiday lets as the basis for any permission or refusal,” he adds.

The problem of holiday lets tend to be concentrated in areas of particular cities and rural tourist areas,” says Indigo House’s Evans.

2. Allocate resources for enforcement – “Councils needs to be set aside resources to enforce the 90-day rule in London,” says Generation Rent’s Wilson Craw.

Westminster City Council estimates that there are around 12,000 short-term lets in the London borough. It has a team of enforcement officers that sit in the environment, climate and public protection department in the council, according to a council spokesperson. It works alongside the Marble Arch Business Improvement District in central London.

3. Enforce tenancy conditions – Public sector and housing association landlords normally have a clause in their tenancy agreements restricting tenants from sub-letting the property,” points out Evans.

“Some social tenants were found to be sub-letting for short-term lets in the Indigo House study,” she says, “Landlords need to make sure that their tenant are aware of the restrictions on sub-letting their homes and the strict circumstances under which it is allowed, and the permission required.”

Further information and read the article, Kochan, B., ‘Advice: Controlling short-term holiday lets’ 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 [January 2024]

[Access the latest Education news](#)

[Ofsted inspections require more empathy – says new boss](#) –

The body overseeing school inspections must listen to the criticism it has received following the suicide of head teacher Ruth Pertty, its new chief says. A coroner ruled a critical Ofsted report contributed to her death.

For Education, see also: [School forced into daily Raac inspection](#), and UCEM article (2023) '[The concrete crisis: what's being done to address RAAC risks](#)', 13th September. Reading: UCEM.

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

BBC Latest – Climate [January 2024]

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

[Storm Henk-hit farmers call for stronger river defences](#)

- Flood-hit farmers are calling on the government to invest more in river defences in rural areas to protect UK food production.

Thousands of acres of crops and productive farmland are now sitting under floodwater left by Storm Henk. The NFU says farmers who are expected to let fields of crops flood to protect towns should also be compensated. A government spokesperson said £221, was being spent on maintaining flood defences in 2023/24.

Also: [What is COP28 and why is it so important?](#)

[Four ways climate change worsens extreme weather](#), and

[UN calls for radical changes to slow warming](#)

- A review of action on climate since the Paris agreement calls for an end to fossil fuels without carbon capture.

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 [January 2023]

Coronavirus pandemic

- What to do if you have Covid,
- What you need to know about Covid as new variant rises,
- What is the UK Covid inquiry and how long will it take, 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.

Note: Further information and the **UCEM e-Library Portrait** is provided later within *Knowledge Foundations*.

[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.](#)

Lessons Learned - Did 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 discusses if the coronavirus changed 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*) [January 2024]

Technical: Building HS2's giant 'Lego' viaduct

- The Thame Valley Viaduct on HS2 is being built from giant precast blocks weighing up to 90 tonnes.

A couple of miles north-west of the Buckinghamshire town of Aylesbury, the UK's longest – and the country's first – factory-made railway viaduct is slowly taking shape, like a giant Lego set.

When it's finished, the 880m-long structure will carry a stretch of HS2's London to Birmingham route across the flood plain of the Thame Valley.

HS2 North Chilterns to Aylesbury section: key projects –

24km of high-speed line; **18** overbridges; **Five** underpasses; **Three** viaducts (including the Thame Valley Viaduct); **Five** major road realignments; **One** Network Rail realignment; **Earthworks:** 6.6 million cu m excavation/8.3 million cu m fill.

Further information, as well as access to read the article in full – Lago, C. (2023) Technical: **'Building HS2's giant 'Lego' viaduct'**, *Construction Management* [online], 4 January. Available at: <https://constructionmanagement.co.uk/thame-valley-viaduct-hs2/> [accessed 5 January 2024]

[Back to top](#)**Also: Reinforced autoclaved aerated concrete (RAAC): key questions answered**

Useful RAAC guidance is shared, including the following:

- [Institution for Structural Engineers: RAAC investigation and assessment guidance page.](#)
- [Office of Government Property: RAAC safety briefing notice.](#)

Further information and related articles, as well as access to read the article in full – Mann, W. (2023) '[Reinforced autoclaved aerated concrete \(RAAC\): key questions answered \(constructionmanagement.co.uk\)](#)', *Construction Management* [online], 4 September. [accessed 26 August 2023]

Related article:

UCEM article (2023) '[The concrete crisis: what's being done to address RAAC risks](#)', 13th September. Reading: UCEM.

Latest News: Global Construction Review (GCR) [January 2024]

[\\$5bn electric vehicle plant accelerates in Atlanta](#) - Californian EV maker Rivian has selected Chicago contractor Clayco to build an 1,800-acre manufacturing plant outside Atlanta, Georgia.

The company, which makes SUVs and pick-ups, had previously planned to build the factory in Fort Worth, Texas, but was "outbid" by Georgia, [according to the Dallas Morning News](#). Georgia governor Brian Kemp said the plant would cost \$5bn to build, and when it is complete will assemble 400,000 EVs a year, creating 7,500 jobs.

Access and read the article in full, Quirke, J., (2024) '[\\$5bn electric vehicle plant accelerates in Atlanta](#)', *Global Construction Review* [online], 5 January. Available at: www.globalconstructionreview.com/5bn-electric-vehicle-plant-accelerates-in-atlanta/ [accessed 5 January 2024]

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 [\[January 2024\]](#) surrounding sectors such as **Living (Sector) incl. Real Estate** covering:

- [Shoosmiths strengthens real estate practice with further partner,](#)
- [Clarity on roles and responsibilities of the Accountable Person under the Building Safety Act 2022,](#) and

[Court considers discretionary grounds of opposition to a proposed lease renewal under the Landlord and Tenant Act 1954](#)

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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

Latest update [January 2024] CIRIA is pleased to announce 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 \[January 2024\]](#)

[End of Phase 2 Hearings](#) – The Inquiry concluded hearings from 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 – The next drop-in session for BSRs and members of the public will be on Monday 11 December 2023 from 16:30-17:30 at Bay20, 71 St Marks Rd, London W10 6JG.

• **December 2023 Newsletter** – The Inquiry has published an update on its work.

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

[Back to top](#)**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 at 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 by 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.

[Shoosmiths Insights](#) [online] - [Lessons from Grenfell: New fire safety responsibilities](#)

Amendments to the Regulatory Reform (Fire Safety) Order 2005 will add to the existing responsibilities of Responsible Persons under the Order which were expanded earlier this year (2023) by The Fire Safety (England) Regulations 2021[1].

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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 came 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 2023](#)

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 winner 2023: John Morden Centre by Mae. The [John Modern Centre](#) by Mae has been named winner of The Royal Institute of British Architects (RIBA) Stirling Prize 2023, awarded to the UK's best new building.

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Founded in 1695, Modern College is a charity dedicated to providing older people in need with a home for life, including the provision of residential and nursing care. Further information (including a video of the project) is available via RIBA, [Architecture.com](#) [online].

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 December 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 20 December 2023' in full.](#)

Contents:

- Julye 2023
- About the UK HPI, and
- Archived reports and data.

Related Content:

- UK House Price Index: data downloads September 2022
- UK House Price Index: reports 2022
- UK House Price Index: data downloads October 2022
- UK House Price Index for October 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

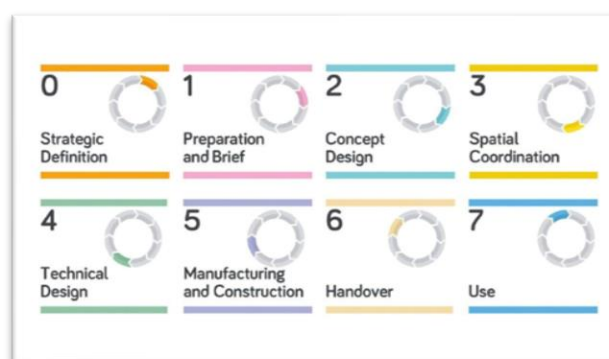
4 – Technical design – no change

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

[January 2024] –

- **Projects – Mace and Glider at 40 Leadenhall Street: from delay to digital exemplar, 25 September 2023.**

- A significant delay to starting on site allowed Mace and Glider to turn what would have been simply a challenging project in the City into a digital exemplar.

Mace won the tender to be the principal contractor on TH Real Estate's **40 Leadenhall Street** office scheme in the City of London in 2015. Delays relating to the original client, the state of the economy, and a new client, M&G Real Estate, taking ownership of the scheme meant the contractor didn't get to start on the site until the day before the covid lockdown started in 2020.

Designed by Make Architects to echo classic North American skyscraper designs, the project features two stepped towers, the northern at 34 storeys and the southern at 14 storeys. Together, the two towers create more than 80,000 sq. m of

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office space and 7,000 sq. m of retail and amenity space. Faced with the usual challenges of building on a tight footprint, Mace has leaned heavily on offsite construction, with prefabrication from its MEP business.

The long delay to starting on site presented an unexpected benefit: Mace's use of digital technology had moved on significantly since it had won the tender.

"Some of the technology we're using now, we weren't using at the time," explains Max Kidwai, BIM (digital) construction lead and BIM lead and project information manager at Mace for 40 Leadenhall Street. "Certainly, there are workflows and processes that we've now got in place that we didn't have then. There's a lot more structured data, which will help the client when they insure the building, and when they come to sell it, the client will have a more valuable asset."

40 Leadenhall Street project team

Client: M&G Real Estate; **Development manager:** Nuveen;

Architect: Make Architects; **Principal contractor:** Mace;

Asset information management and handover consultant:

Glider; **Smart building consultant:** Arcadis.

Gain access to further information (surrounding

- **Digital exemplar** – During the delay period, Mace took the decision that the project should be an exemplar of its use of digital technologies and processes, and secured the client's buy-in.
- **Managing up and down the chain** – this digital ecosystem allows Mace to manage the supply chain and project stakeholders. As a result of covid's operational impacts, Mace turned to BIM360 to maintain collaborative working across the project team.
- **Laser scanning** – Mace is also using Trimble Connect for laser scanning. Mace MEP's modules feature QR codes that allow for tracking and tracking via BIM360. Once the building is in operation, its maintenance team will be able to scan those codes and see all the data collection design and construction.)

and full access to the project case study article by Stanton, J., (2023), entitled, '[Digital collaboration key to Manchester campus success](#)', BIMPLUS Projects.

Other BIMPLUS Projects include:

- **Projects – Digital collaboration key to Manchester campus success**, 15 August 2023.

- A joint collaboration between Bond Bryan and Simpson Haugh has delivered a state-of-the-art city centre campus for The Manchester College and University Centre (UCEN) Manchester and digital played a central role.

Gain access to further information and full access to the project

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case study article by Stanton, J., (2023), entitled, '[Digital collaboration key to Manchester campus success](#)', BIMPLUS Projects.

- **Projects – Sisk Group's path to paperless procurement with Causeway**, 11 July 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 and full access to the project case study article, entitled '[Sisk Group's path to paperless procurement with Causeway](#)', BIMPLUS Projects.

- **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.

- **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.

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

22 December 2020

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

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

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

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

Related BIM+ Projects

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

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

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

Sisk highlights some significant outcomes:

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

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

Lead Contractor: The Central Finland Health Care District

BIM Tools: Tridify

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

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

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

Lead Contractor: Lead Designer: BDF

BIM Tools: Autodesk Revit

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

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

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

Client: Lodha; Main contractor: Mace

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

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

Client: Stavanger University Hospital

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

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

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

Latest BIM news – 10th annual BIM report 2020 available

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

Construction Information Service (CIS) Insights

The latest edition [**January 2024**] of NBS CIS *Insights* focuses on – **Building Safety Act implications for mechanical and electrical engineers** and covers:

- Not just for higher-risk buildings,
- What work falls into scope?,
- and
- Verification, competency, quality assurance, and signoff.

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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 [January 2024]**UK Economy and Property Market Update, **November 2023****

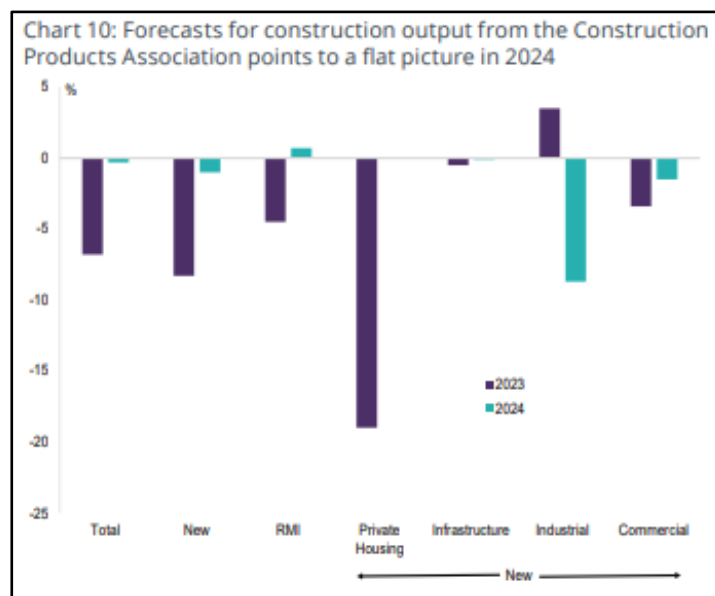
- Economy to remain sluggish but no interest rate cuts in prospect for a while to come.

Summary: Inflation, despite falling back from recent highs, remains well above the 2% target, with the Bank of England recently turning a little more pessimistic on its near-term trajectory. As a result, interest rates look set to remain on hold for a prolonged period, notwithstanding the weak economy. Against this backdrop, construction output is likely to continue to stagnate into 2024 while activity in both the residential and commercial property markets remains subdued.

Construction Sector – Although official data shows construction output broadly flat in recent months (see publication date), it still remains just over 2% higher than a year ago. This trend is also captured in the *Q3 RICS Construction Monitor* which reports the net balance of respondents indicating a drop in workloads slipping from -1% to -10% over the past three months. Significantly, the feedback from respondents to the survey demonstrates increasing pressure on private residential development as housebuilders slow the pace of work in response to the drop in sites visits and reservations (net balance -26%). The contrast to this downbeat picture is the more resilient insight being received regarding infrastructure, albeit that even the positive number for the latter is

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less so than in Q2. Perhaps unsurprisingly against this backdrop, the Construction Products Association are forecasting little change to the overall volume of output over the course of 2024, with new work slightly down and repair and maintenance slightly higher (Chart 10).



© RICS 2023

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

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

- Outlook for sales market activity continues to improve gradually

- Three and twelve-month sales expectations pick-up for a second consecutive month,
- Buyer enquiries indicator records the least downbeat reading since April 2022, and
- House price declines continue to moderate at the national level, the respondents now anticipating a flat trend over the year ahead.

The December 2023 *RICS Residential Survey* results signal another gradual improvement in market sentiment over the month. Indeed, likely driven by the continued easing in mortgage interest rates during recent weeks (see publication date), near-term sales expectations moved a little further into positive territory. Meanwhile, the tide seems to be turning with respect to house prices, with contributors now envisaging a largely flat trend coming through at the twelve-month time horizon.

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Looking at buyer demand, the headline net balance for the new buyer enquiries indicator registered a reading of -3% in December (compared to a figure of -13% in the previous results). Moreover, this metric has now turned less negative in each of the past four months, with the latest return moving into neutral territory (defined as a net balance reading between +5% and -5%) for the first time since April 2022.

Alongside this, the latest national net balance of -6% for the newly agreed sales measure also represents the least negative figure going back to early 2022. Looking ahead, near-term sales expectations continue to improve, with the December net balance edging up to +12%, building on a modestly positive reading of +7% beforehand. What's more, respondents now foresee a solid recovery in residential sales volumes emerging over the year ahead, with the latest net balance climbing to +34% (up from +24% last month). At the same time, the average length of time to complete a sale continues to shorten, with it now taking on average 18 weeks compared to a recent high of 20 weeks back in September.

With respect to supply, a generally stable trend was reported for new instructions over the month, evidenced by a flat new balance reading of +1% being recorded. In keeping with this, the average number of homes currently listed for sale on estate agents book remained at 39 for a second consecutive month, albeit this has risen from 34 properties at the start of 2023. Nevertheless, current stock levels remain relatively low when viewed in a longer-term historical comparison (inventory levels have averaged 51 homes per branch over the fifteen years).

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

RICS - SPACIOUS 千居 Hong Kong Residential Monitor / Market Survey: December 2023

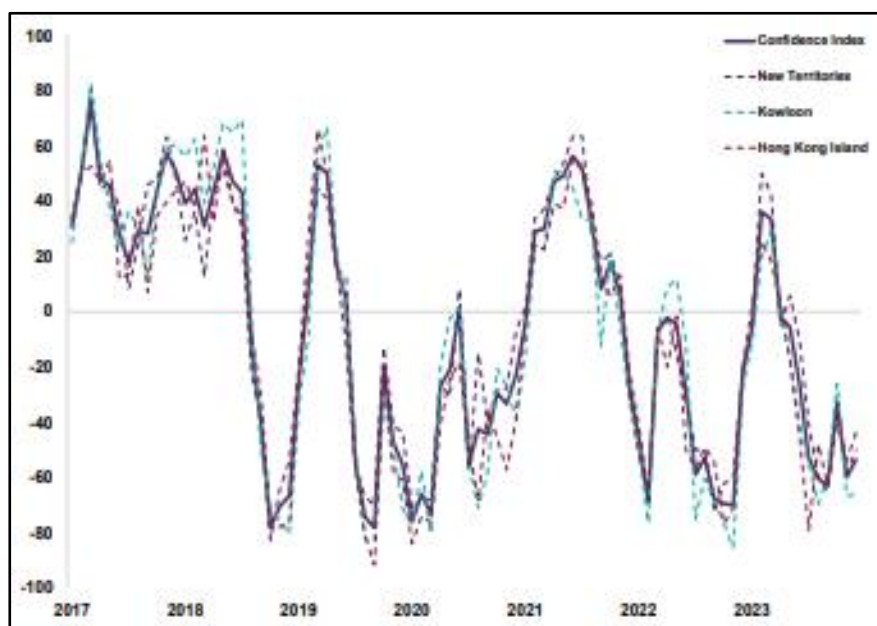
- Sentiment in sales market stuck in negative mood, while rental market shows firmer trend

- Headline confidence index stays in negative territory,
- The sales market is marked by low price and sales expectations, and
- Lettings market remains steady.

The results for the December 2023 *RICS-Spacious Hong Kong Residential Property Monitor* point to continuing negative sentiment in the sales market, while the lettings market shows a more stable trend. As depicted in Chart 1, the headline confidence index registered a negative reading at -54, comparable to the -60 recorded in November. At the district level, broadly similar negative headline indices are visible, indicating a subdued atmosphere across the region. Meanwhile, the lettings market sentiment holds steady across districts.

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Chart 1: Confidence Index*:



© RICS 2023

Source: RICS Economics Research: *RICS Hong Kong Residential Monitor – December 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: December 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, Q4 2023

- Credit conditions for CRE stabilise but feedback remains cautious away from MEA and a few parts of APAC.

- RICS Commercial Property Sentiment Index remains negative, and little changed from Q3 at a headline level,
- Modest signs of improvement evident across some of the more mature markets albeit the better readings are still generally tentative, and
- Feedback from MEA continues to strengthen but aggregate APAC sentiment deteriorates.

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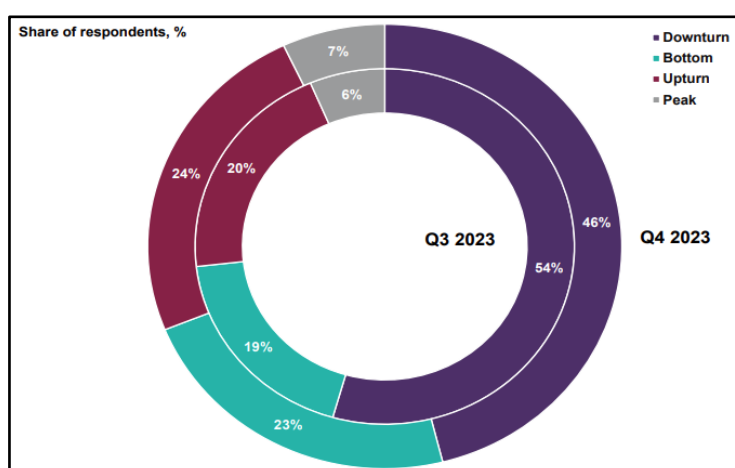
The Global Commercial Property Monitor (GCPM) Q4 2023

The headline RICS Global Commercial Property Sentiment Index (CPSI) for Q4 2023 came in broadly in-line with the Q3 reading at -15%. Significantly, this global metric has been little changed since the middle of 2022. A similar story is visible when the headline number is broken down into its component parts, with the investment component (ISI) steady at -18 and occupier sentiment (OSI) unchanged at -13.

Stage in cycle metric suggests gradual progress - Chart 6 shows the feedback to the question about where the real estate market is in the property cycle at a global level. In the latest iteration of the survey, 46% of contributors indicated that it is still in a downturn phase, with a further 23% signalling that it is now at the bottom of the cycle. The comparative results from Q3 are 55% and 19% (for Q2, the numbers were 58% and 14%). Meanwhile the share of respondents suggesting that the market is in the upturn phase of the cycle has edged up very slightly from 21% to 24%.

At a regional level, the results tell a similar story to a greater or lesser extent. For the Americas, the proportion of respondents who view the real estate market to be in either a downturn or at the bottom of the cycle has slipped from 70% to 65%, with an increasing share in the latter category. The equivalent figures for APAC are 68% and 66% and for Europe 88% and 82%. Meanwhile, the insight provided from MEA is understandably rather different with over 50% of respondents continuing to view the property market to be in an upturn phase of the cycle.

Chart 6: Global Perceptions Regarding Point in Cycle



© RICS 2023

Source: RICS Economics Research: *RICS Global Commercial Property Monitors, Q4 2023*, London: RICS, p4 - Chart 6.

[Read the latest RICS Global Commercial Property Monitor, Q4 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

Construction Industry highlights include – Construction output in Great Britain: **November 2023**

- Short-term measures of output by construction industry in November 2023.

What's covered in the latest bulletin?

- Construction output saw a decrease of 0.6% in the three months to November 2023; this came solely from a decrease in new work (3.6% fall), as repair and maintenance increased by 3.8%.

- Monthly construction output is estimated to have decreased 0.2% in volume terms in November 2023; this follows an upwardly revised decrease of 0.4% in October 2023, with the monthly value in level terms in November 2023 at £15,571 million.

- The decrease in monthly output came solely from a decrease in new work (2.0%), as repair and maintenance increased by (2.1%).

Read the full statistical bulletin, 'Construction output in Great Britain: November 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)

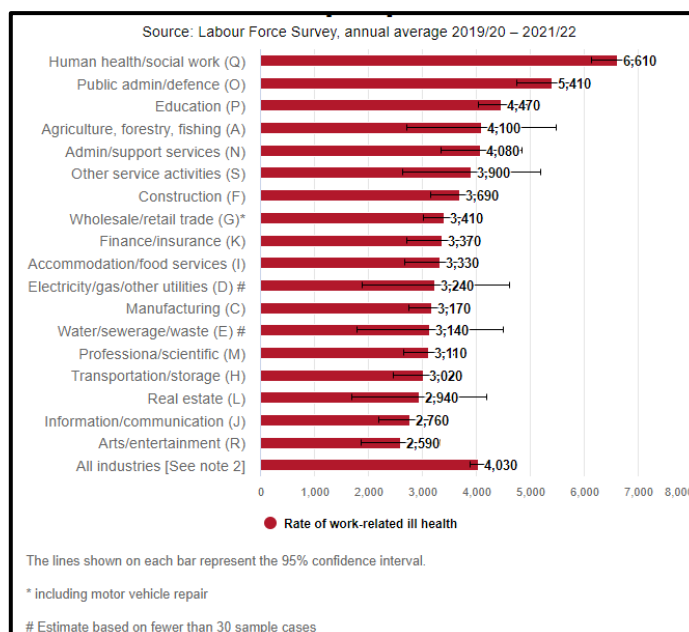
In 2021/22 an estimated 1.8 million workers (**N.B. 1.7 million in 2020/21**) were suffering from an illness they believed was caused or made worse by their work and 565,000 (**N.B. 441,000 in 2020/21**) workers sustained a non-fatal injury at work. [Source: Self-reports from the Labour Force Survey].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



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

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

- LATEST: Market Trends: Savills.com [January 2024]

Which macro themes will be key in driving real estate investment in 2024?

- The economics outlook will remain front and centre for investors in 2024, but other drivers of returns should not be discounted.

Most investors will be happy to consign 2023 to the past. But many of the major themes that occupied their minds in 2023 will linger on in 2024, based on a survey of the Savills global research network.

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Access further information and Salmon, O. (2023), [Market Trends – ‘Which macro themes will be key in driving real estate investment in 2024?’](#), article in full.

Also: [Market Trends – ‘The leading global second home locations’](#).

[Market Trends – ‘Prime push by occupiers fuels cautious optimism for landlords and boosts office costs’](#).

On the up: global real estate investment picks up for 2024

- 2024 should be a better one for global property investors, with a sustained bounce back expected. However, regional variations remain.



© Savills Market Trends, 2023

Real estate investors are looking forward to a more positive 2024, with recovery predicted across key parts of the global property market.

The outlook is for increased activity on the back of more attractive yields, with prime rents rising and repricing starting to re-align buyer and seller expectations.

Charts provided within this article (and including ‘Outlooks for 2024’ provided overleaf) are based on Savills’ annual survey of Savills global research experts, who provide their investment outlooks and top tips for the coming year.

The outlook for global property is becoming more positive. Investment activity is expected to rise moderately or remain unchanged across most property sectors in Europe and the Middle East in 2024. Only a small minority of respondents expect activity to decline, so the worst of the contractions caused by rising interest rates appear to be behind us.

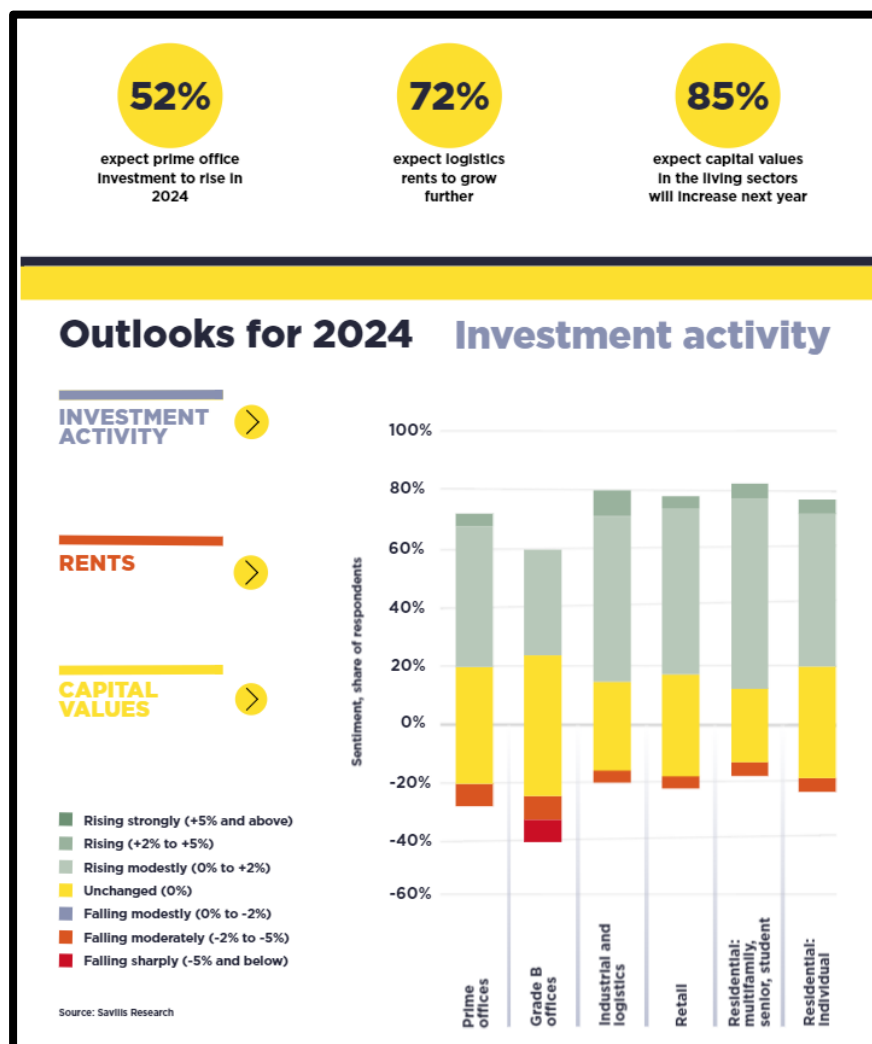
There is more optimism about the activity in residential markets, particular the multifamily sector, where demand outstrips supply in the many areas. Buoyed by strong fundamentals, the logistics property market also looks set to perform well in 2024.

It's a more mixed outlook for offices, however, especially outside the prime sector, where 16% of respondents expect investment activity to decline in 2024.

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Overall, 5% to 10% of respondents anticipate a strong rise in investment activity. Savills believe this will be driven primarily by prime purchases, alongside opportunistic investment in distressed assets that are expected to come to market.

[Outlooks for 2024](#)



© Savills Market Trends, 2023

Source: Tostevin, P., and Mitsostergiou, E, (2023) *Market Trends: On the up: global real estate investment picks for 2024*, Savills [online]. Available at: www.savills.com/impacts/market-trends/on-the-up-global-real-estate-investment-picks-for-2024.html [accessed 8 December 2023]

Access [‘On the up: global real estate investment picks for 2024’, in full.](#)

Also: [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](#)

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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.

A framing toolkit: How to talk about homes

Part of [Talking about housing](#)

Related topics – Housing; Affordable housing; Housing Market

- You can download the framing toolkit to help tell a new story about homes. It contains essential guidance and tips for how to communicate to the public about the important of decent and affordable homes as fundamental to a healthy, decent life.

The toolkit offers practical examples to bring to life the five framing principles for explaining about homes and the housing crisis. These frames are designed to support communicators and campaigners in the housing sector and beyond.

This FrameWorks UK toolkit is part of the Joseph Rowntree Foundation and the Nationwide Foundation's co-funded Talking about Housing project.

Access the JRF(2023) '[How to talk about homes – toolkit](#)' (1.41 MB), in full.

Also gain access to the following free downloads that include: Research Findings and Related Links surrounding:

- **Housing**
 - Affordable Housing
 - Home Ownership
 - Housing Market
 - Private Rented Sector,
 - Social Housing
- **Society**
 - Emerging Futures,
- **Living Standards**
 - Cost of Living,
- **People**
 - **Child poverty**, and

UK Poverty:

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

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

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

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

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

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

[JRF Spring Budget 2021 analysis](#)

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

3) The Smith Institute

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

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) CIBE – 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](#)
- 1. **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 CIBE

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 CIBE, 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 **January 2024**, the [latest news & insights](#) include:

- **News & Opinion –**
 - [Further drop in housebuilding sees UK construction workloads fall](#) (11/23)
 - [UK construction workloads a mixed picture while infrastructure remains as area of strength](#),
 - [Building Safety Act FAQs](#) and [Information](#) (01/24)
- **Digital Transformation / Tech Partner Programme –**
 - Advancements in drone technology, and
 - Unlocking Operational BIM Benefits
- **Market & Geopolitics –**
 - The outlook for office markets: Towards a two-tiered system?
- **Fire Safety –**
 - [Cladding External Wall System \(EWS\) FAQs](#) (12/23),
 - [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.

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 **January 2024**, the latest CIOB Policy and [Research](#) include:

Economic and Social Impact

- Research: *Harnessing Scotland's Social Housing Expertise*
- Research: *Balancing the tax system with climate goals* (10/23)
- *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*; and *The State of Well-being in the Construction Industry*.
- *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 **January 2024**, the latest House of Commons Library, **[Research publications](#)** incl.

1. Research for Commons business,
2. NHS strike action in England,
3. The UK economy : a dashboard, and
4. UK Election Statistics: 1918-2023: A century of elections.

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

As of **January 2024** the latest **[House of Commons Research](#):**

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

1. Higher education student numbers,
2. School strike action in the UK,
3. Relationships and Sex Education in Schools (England),
4. Suicide prevention: Policy and strategy,
5. Language teaching in schools (England),
6. Teacher recruitment and retention in England,
7. International students in the UK higher education,
8. The Privy Council: history, functions and membership
9. Support for children and young people's mental health (England), and Suicide prevention: Policy and strategy, and

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

1. Housing Market: Key Economic Indicators,
2. Leasehold reform in England and Wales: What's happening and when?
3. Local Housing Allowance (LHA): Help with rent for private tenants,
4. Local authority data: housing supply,
5. Leasehold high-rise flats: who pays for fire safety work? and
6. Fire safety in houses and flats.

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

1. Offshore Petroleum Licensing Bill 2023-24: Second Reading,
2. Gas and electricity prices during the 'energy crisis' and beyond,
3. Help with energy bills,
4. Energy efficiency in UK homes,
5. Debate on Water, Sanitation and Hygiene and sustainable development,
6. The UK's plans and progress to reach net zero by 2050,
7. The Energy Bill and households: FAQs,
8. Climate change "Loss and Damage" fund.

[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** (**January 2024**), 'Each of you has a role to play in this decisive decade' – In the first column as RICS President, Tina Paillet FRICS addresses the challenges facing surveyors and the built environment – with climate crisis at the forefront.

Subject Terms/Keywords: Building surveying; Facilities management; Quantity surveying and construction; RICS standards and guidance; Sustainability; and Technology.

Latest articles within *Modus*:

- **The voices of 2023 on *Modus*** – It's been a big year for the Building the Future podcast, with guests including mayor of Greater Manchester Andy Burnham, regeneration expert Kate Willard and RICS president Ann Gray FRICS.

Subject Terms/Keywords: Building surveying; Diversity and inclusion; Economics; Infrastructure; Planning and development; and Sustainability.

- **What were the most popular stories of 2023 on *Modus*?** – Profiles of RICS members, as well as topics related to climate change and architecture have it into our top 10 most-read articles

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in 2023.

The Top ten most read articles include the following:

1. Which real estate sector pays the most?,
2. Future-proof: retrofitting commercial property,
3. Brutal or beautiful? The Barbican Estate,
4. Alexandra Revell MRICS: renovating the Royal Albert Hall,
5. At your convenience: the importance of good toilets,
6. From soldier to surveyor,
7. Alan Bainbridge FRICS: transforming the BBC's estate,
8. Buildings that elevated cities: The Shard, London,
9. What are the most important features of office design?, and
10. How to ensure biodiversity net gain in developments.

Subject Terms/Keywords: Commercial property; Commercial valuation; Corporate real estate; Economics; Residential; and Sustainability.

- Are urban waterways the key to greener transport? –

Whether it's for moving people or reliable last mile logistics, rivers and canals are a transport network that already exists in most cities. But are we making the most of them?

Subject Terms/Keywords: Cities and placemaking; Infrastructure; Infrastructure and services; Land and resources; Marine environments; and Quantity surveying and construction.

- Hans-Michael Brey FRICS: street art shapes communities –

The CEO of Urban Nation museum in Berlin explains how street art brings neighbourhoods together and gets residents more involved in their upkeep and development.

Subject Terms/Keywords: Building control; Cities and placemaking; Housing; Residential; and Wellbeing.

- Lights, camera, regeneration: building film studios – A new film studio can bring investment to a local economy as well as create plenty of high-quality jobs. And demand for such property has dramatically increased in the TV streaming age.

Subject Terms/Keywords: Cities and placemaking; Commercial property; Economics; Projects and people; Property finance and investment; and Quantity surveying and construction.

- 13 essential sustainability features from 2023 – While COP28 was happening in Dubai, *Modus* took a look back at the broad range of sustainability-focused topics featured in 2023, from 'carbon blindness' to building with bamboo.

Subject terms: Environmental Surveying; Environmental management; Land and resources; Rural; Sustainability; and Water management.

- Building the future: 'remember why we became surveyors'

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2023 RICS President Ann Gray FRICS discusses the challenges and highlights of 2023, creating the structure for change and growing the global membership.

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

Also:**- Four-day work week: coming to the built environment? –**

Shorter working weeks with no loss of pay to employees have been successful in a series of global trials – staff are better rested, happier and more productive.

Subject Terms/Keywords: Building control; Commercial Property; Economics; Research; Sustainability; and Wellbeing, 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, **December 2023 - Issue 508** focusing on – Final edition of *Heritage Update* of 2023; Home Office Overhauls Visa Rules, Abolishes Shortage Occupations List; Advanced British Standard consultation, and Qualities Minister Attacks 'Woke' Archaeological Study'. 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, - This latest **January/February 2024** edition of *Facilitate* focuses on the rarity of entering a new year with the racing certainty of a general election. The very nature of the system forces talk of policy innovation from all sides – something that can only be a good thing for the management of the workplace.

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 [**January 2024**] focuses on – **Why specification is more important than ever**, and covers -

- **Types of specification,**
- **Essential reasons to use specification and desirable outcomes,** and
- **The Building Safety Act and the golden thread of information.**

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 13, Number 1 (2023-2024)** of ***Corporate Real Estate Journal*** incl.

Vol 13, Number 1 (2023-24)**• Case Studies**

Cutting the cord: How and why HERE Technologies fired their service provider and took real estate in-house (and whether other end users should too)

Also:

- Delivering inclusive workplace experiences to support corporate strategy, and
- Reimagining real estate and facilities management outsourcing: A bp and JLL case study.

Vol 13, Number 1 (2023-2024)**Practice papers**

1. The critical role of data governance in corporate real estate,
2. Leveraging healthy buildings as a tool to apply a people-centric approach to ESG,
3. Strategies for using quantitative and qualitative metrics to optimise hybrid work solutions,
4. Meeting the demand of change: A clear path to a better digital enterprise architecture,
5. Redefining the modern urban office: The role of gardens in elevating productivity and well-being in the workplace, and
6. Creating a workplace fit for your current and future workforce.

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)

[Back to top](#)**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, and more.

Also:

Vol 13 (2023-24) of [Corporate Real Estate Journal](#)

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(4)** includes six research papers and one book review.

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

Editorial: Introduction to *Open Praxis* **Vol 15(4)**

'Unleashing the potential of generative AI, conversational agents and chatbots in educational praxis: A systematic review and bibliometric analysis of GenAI in education.

Research articles include:

1. 'A Conceptual Approach to Transform and Enhance Academic Mentorship: Through Open Educational Practices',
2. 'Foregrounding Care in Online Student Engagement in a South African E-learning University,
3. 'The Impact of Open Educational Resource Professional Development for Teachers in Secondary Education',
4. 'Intergovernmental Organisations (IGOs) and Governmental Open Educational Resources (OER) Policies: Instruments of International Policy Influence',
5. 'University Lecturers' Feelings, Awareness and Attitudes Towards Open Education Resources: Experience from Two Higher Learning Institutions in Tanzania' and
3. 'Crisis-Based Remote Education: A Comprehensive Model'.

Book review(s):

1. 'Book Review of *Teaching in the Online Classroom: Surviving and Thriving in the New Normal*' - by S. Haslinda Mukhtar, and M. Khalid M. Nasir.

Source: Lemov, D. (eds.) (2020). *Teaching in The Online Classroom: Surviving and Thriving in The New Normal*. San Francisco: Jossey-Bass. ISBN 9781-119-762-935.

Keywords: Teaching, learning, online classroom, online learning, new normal.

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 (2023): 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 EURODL – 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(4)

2023 OLC Conference Special Issue: AERA Online Teaching and Learning SIG

Editorial - Introduction to the Special Issue – Highlighting AERA's Online Teaching and Learning SIG 2023.

Articles/Papers include:

1. The Online Teaching Motivation Scale (OTMS): Development and Validation of a Survey Instrument,
2. Bridging Theory and Measurement in Student Engagement,
3. Course Design Approaches and Behavioural Patterns in Massive Open Online Courses for Professional Learning.
4. Deep Learning Models for Analyzing Social Construction of Knowledge Online,
5. Measuring Faculty Engagement in Online Formative or Whole-Person Education,
6. College Students Networked Knowledge Activities, and Digital Competence,
7. Higher Education Instructor Perception of Helpfulness of Inclusive and Equitable Online Teaching Strategies,
8. Conceptions of Time in Educational Technology.

Section II

Introduction to Section II – Volume 27, Issue 4

Articles/Papers include:

1. From Online Learner Readiness to Life-long Learning Skills: A Validation of the Learning Skills Journey Tool,
2. A study on the Relationship between Domain Specific Self-Efficacy and Self-Regulation in e-Learning,
3. Success Rate Disparities Between Online and On-campus Economics Courses.
4. Humanising Online Pedagogy through Asynchronous Discussion Forums.

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.

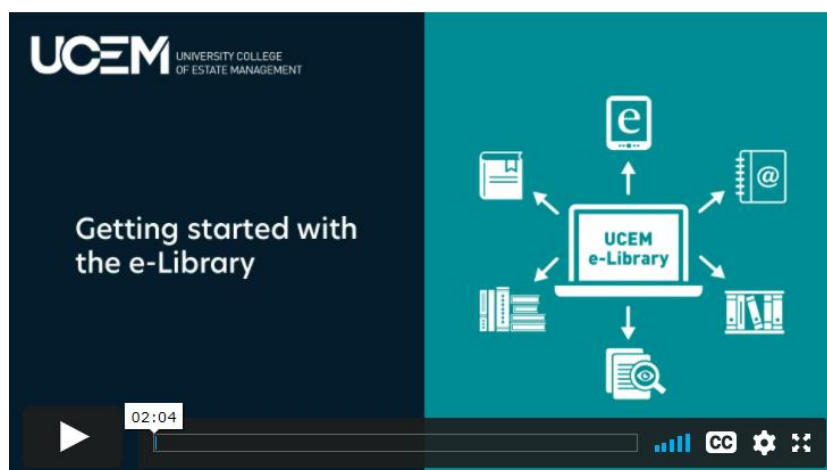
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UCEM e-Library Portrait

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 (2023) *Getting started with the e-Library* [video], YouTube. Available at: www.youtube.com/watch?v=iEg8DFUFIfY&t=5s [accessed 6 October 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.

[January 2024] - Here are some Open Access Journal articles available via Emerald, all around the theme of

'Artificial Intelligence in Education'.

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

1. Wójcik, M. (2021), 'Augmented intelligence technology. The ethical and practical problems of its implementation in libraries', **Library Hi Tech**, Vol. 39(2), pp. 435-447.
2. Giuggioli, G. and Pellegrini, M.M. (2023), 'Artificial intelligence as an enabler for entrepreneurs: a systematic literature review and an agenda for future research', **International Journal of Entrepreneurial Behavior & Research**, Vol. 29(4), pp. 816-837.
3. Fedock, B., Paladino, A., Bailey, L. And Moses, B. (2018), 'Perceptions of robotics emulation of human ethics in educational settings: a content analysis', **Journal of Research in Innovative Teaching & Learning**, Vol 11(2), pp. 126-138.



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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 [January 2024] the Hot Topic Highlight – RICS Professional Discounted Cash Flow Valuations (1st Edition)**

In this week's blog, Property Elite look at the RICS *Professional Standard Discounted Cash Flow Valuations* (1st Edition). This is essential reading for all RICS APC and AssocRICS candidates with Valuation as a technical competency, as well as qualified surveyors and RICS Registered Valuers.

What is DCF?

RICS (2023) define a DCF as “a valuation model that seeks to determine the value of real estate investment property by examining its future net income or projected cash flow from the investment and then discounting that cash flow to arrive at an estimated current value of the investment”.

Access and download a full copy of the [Professional Discounted Cash Flow Valuations \(1st Edition\)](#) on the RICS website. Note: RICS provide a glossary of other helpful terms relating to DCFs on pages 3 to 6 of the Professional Standard.

The Professional Standard relates to the use of the explicit DCF method (under the income approach in VPS 5 the Red Book Global) to value investment property. Investment property includes all income-generating asset types (e.g., commercial and residential) and both occupied and vacant property

Also covered in this blog: **How does this relate to VPS 4 of the Red Book Global?, What does a DCF look like?, and Do I have to use DCFs going forward?**

Further details and access to the Property Elite Hot Topic Highlight – RICS Professional DCF Valuations, 1st edn.

Also –

- Estates Gazette – APC Series -

- o [RICS APC Pathways, & APC Lifeline 2024 Update](#)
- o [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



© EGI 2023

Estates Gazette recently published a supplement entitled '[Starting out in Real Estate](#)'.

This publication highlights the many varied and interesting career opportunities in real estate and has a number of contributions from UCEM. It's an interesting and informative read, covering areas such as:

- **What is Real Estate?** The asset classes, sectors and careers in the industry explained
- **A Day In The Life** – EG ask 19 professionals about their roles and skill sets
- **In Conversation with...** Crown Estate CEO Dan Labbad on how young people can change the world for the better, &
- **All About Apprenticeships** – How a degree apprenticeship works and why one could be right for you.

Also: 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.

[TARGETjobs](#) (incl. [Construction and Property](#)) include graduate career guides and directories available for you to view online and download for future reference covering: [Explore Property](#), [Explore Engineering](#), 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.

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Building People

Enabling connections for a competent, diverse, and valued built environment workforce

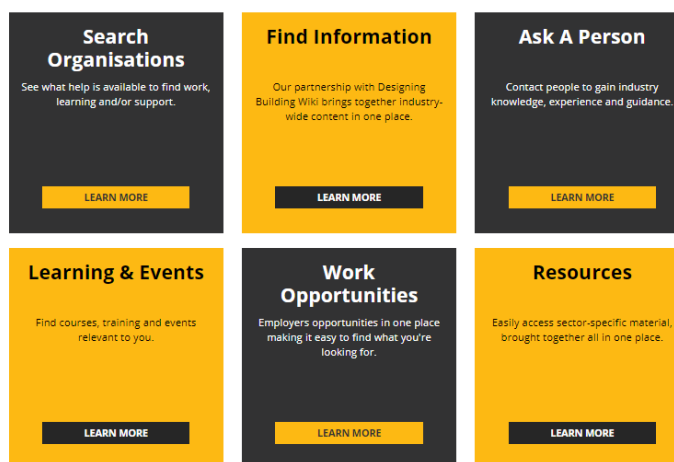


© UCEM 2021

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.

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

- It is an exciting time for Building People 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 thought 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.

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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 sustainable built environment. **Note:** 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.

LATEST NEWS: The Building Cost Information Service (BCIS) has launched a free-to-access benchmark tool – **Built Environment Carbon Database (BECD)**, for infrastructure carbon assessment in the UK construction industry.

Building Research Establishment (BRE) Sustainability

- 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: Practical guidance and support for delivering genuine sustainability benefits.

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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:



Carbon Zero: the professional institutions' climate action plan

The signatories to this Action Plan agree that:

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

© CIC 2021

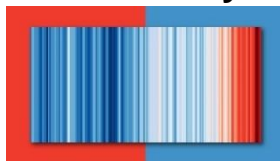
The document, entitled 'Carbon Zero: the professional institutions' climate action plan,' was released last week and coordinates the efforts of built environment institutions in meeting the UK government's 2050 net zero emissions target.

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

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

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



[Image: courtesy Ed Hawkins]

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

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

QSAND and the Sustainability Goals

The UN Sustainable Development Agenda, adopted by world leaders in 2015, maps out a 15-year plan to fight inequality, end poverty and tackle climate change challenges.

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

Libraries' contribution to SDGs

Agenda Vision: Universal literacy

Goal 3: Good health and wellbeing

Goal 4: Contribution to quality education

Goal 5: Culture

Goals 5, 9, 7: ICT skills and access

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

Goal 16: Access to information

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



(UN.org 2022)

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

[Back to top](#)**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(s):**CIOB: Guide to Sustainability in the Built Environment**

- The Chartered Institute of Building (CIOB) has published a sustainability guide for built environment professionals.

The guide covers topics including sustainability development goals, green financing, embodied and operational carbon, biodiversity and social value. It offers practical tools and strategies to help professionals embrace sustainable practices during the planning, construction and ongoing operation of a building, to support national and global efforts to reach net zero, while also improving the environment for communities.

Further information is available at: ***A Guide to Sustainability in the Built Environment is available on the CIOB website.***

Note: This book is also available via the UCEM e-Library.

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

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

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 [January 2024]

BBC News: Corringham school apologies after sharing personal pupil data

- A school has apologised for sending an email to parents which listed the personal data of 69 pupils who were being disciplined for bad behaviour. The message included an attachment which contained information about pupils' special educational needs (SEN) status. **Keywords** include – [Data Breaches](#).

[Access the BBC News article, \(2023\) 'Corringham school apologises after sharing personal pupil data', in full.](#)

[Back to top](#)**ICO Latest News [January 2024] -**

6 December 2023 – **UK Information Commissioner warns against 2024 becoming the year people lose trust in AI**

- People's concerns starting to outstrip excitement
- Tech developers must embed privacy from the very start to maintain trust

Also:

ICO publishes guidance to ensure lawful monitoring in the workplace (10/23)

Joint statement on data scraping and data protection (08/23)

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)

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? [January 2024]

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



© iStock (2021)

“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 [[January 2024](#)]

New York Times sues Microsoft and OpenAI for 'billions'

- US news organisation the New York Times is suing Chat-GPT-owner OpenAI over claims its copyright was infringed to train the system.

The lawsuit, [which also names Microsoft as a defendant](#), says the firms should be held responsible for "billions of dollars" in damages.

Read the full BBC news item, Gerken, T., 'New York Times sues Microsoft and OpenAI for 'billions'.'

Also: New AI systems collide with copyright law, and 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 26 January 2024]. 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 custodian 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

- The challenges of remote working and points 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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N - O - P - Q - R - S - T - U - V - W - X - Y - Z

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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 January 2024]

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 January 2024]

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 January 2024]

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 January 2024] (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

Barbour ABI [online]. Explore the latest Construction Market Analysis Reports, for free. Further information available at: <https://barbour-abi.com/resources/reports/> [accessed 26 January 2024]

BBC Search and BBC Education [online]. Further information available at: www.bbc.co.uk/search and www.bbc.co.uk/news/education [accessed 26 January 2024]

BIDSTATS [online] – Free UK tenders' portal. Find UK public sector contracts and further information available at: <https://bidstats.uk/> [accessed 26 January 2024]

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 January 2024]. 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 January 2024]

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 January 2024]

British and Irish Legal Information Institute (BAILLI) Case Law Search [online]. Further information available at: www.bailii.org/form/search_cases.html [accessed 26 January 2024]

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 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 January 2024]

Building Conservation.com [online] – Information resources for conservation, restoration, and repairs. Further information is available at: www.buildingconservation.com [accessed 26 January 2024]

Building Conservation.com Articles directory by subject [online]. Available at: www.buildingconservation.com/articles/articles.htm [accessed 26 January 2024]

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 January 2024]

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 January 2024]

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 January 2024]

BRE A-Z of BRE Services (from Accreditation to Zero Carbon) [online]. Further information is available at: <https://bregroup.com/a-z/> [accessed 26 January 2024]

BRE Case Studies [online]. Further information is available at: <https://bregroup.com/expertise/case-studies/> [accessed 26 January 2024]

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 January 2024]

Building talk [online]. Available at: www.buildingtalk.com [accessed 26 January 2024] *Building Talk* is an email newsletter for Architects, Civil Engineers and Building Services Contractors.

Built Environment Carbon Database (BECD) is a free-to-use repository of whole-life carbon assessments of built assets and product LCA data. BECD [online]. Available at: <https://carbon.becd.co.uk/> [accessed 26 January 2024]

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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 January 2024]

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 January 2024]

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 January 2024]

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 January 2024]

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 January 2024]

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 January 2024]

Centre for Digital Built Britain (CDBB) is a partnership between the Department of Business, Energy & Industrial Strategy, and the University of Cambridge to deliver a smart digital economy for infrastructure and construction for the future and transform the UK construction industry's approach to the way we plan, build, maintain, and use our social and economic infrastructure. CDBB [online]. Available at: www.cdabb.cam.ac.uk/AboutDBB [accessed 26 January 2024]

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 January 2024]

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 January 2024]

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 January 2024]

CIOB Library Incl. Library and Information Services [online]. Available at: www.ciob.org/learning/library [accessed 26 January 2024]

CIOB People - construction's new people development resource, reaching 55,000 industry professionals. [online]. Available at: <https://ciobpeople.com/> [accessed 26 January 2024]

CIOB's Construction Management journal (formerly *Construction Manager*) [online]. Available at: <https://constructionmanagement.co.uk/> [accessed 26 January 2024]

CIOB's Global Construction Review journal [online]. Available at: www.globalconstructionreview.com/ [accessed 26 January 2024]

CIOB BIM+ online newsletter [online]. Available at: www.bimplus.co.uk [accessed 26 January 2024]

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 January 2024]. 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 January 2024]

CIBSE Journal [online]. Available at: www.cibsejournal.com [accessed 26 January 2024].

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 January 2024]

Cities / buildings images database [online]. Available at: www.washington.edu/ark2 [accessed 26 January 2024] 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 January 2024]

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 January 2024]

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 January 2024]. 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 January 2024]

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 January 2024]

COTAC Digital Bibliography [online]. Available at: http://cotac.global/digital_bib/ [accessed 26 January 2024]

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 January 2024]

Construction Enquirer is a news website in construction. Construction Enquirer [online]. Available at: www.constructionenquirer.com [accessed 26 January 2024]

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 January 2024].

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 January 2024]

The **Construction Industry Research and Information Association** (CIRIA) [online]. Further information and resources are available at: www.ciria.org/default.aspx [accessed 26 January 2024]

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 January 2024]

Construction Manager is the magazine of the Chartered Institute of Building (CIOB) [online] and available at: www.constructionmanagemagazine.com/ [accessed 26 January 2024]

Construction News [online]. Available at: www.constructionnews.co.uk [accessed 26 January 2024]

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 January 2024]

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 January 2024]

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 January 2024]

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 January 2024]

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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 January 2024]

Designing Buildings Wiki [online] and available at: www.designingbuildings.co.uk/wiki/Home [accessed 26 January 2024] 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 January 2024] 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 January 2024] 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 January 2024]. 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 January 2024]

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 January 2024]

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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 January 2024]

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 January 2024]

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 January 2024]

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 January 2024]

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 January 2024]. 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 January 2024] 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 January 2024].

ERES Digital Library [online] and available at: www.eres.org/index.php/activities/libraryeres [accessed 26 January 2024]

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G

Great Buildings Online [online]. Available at: www.architectureweek.com/search.html [accessed 26 January 2024] 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 January 2024] 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 January 2024]

Global Construction Review – An online journal from the Chartered Institute of Building (CIOB) [online]. Available at www.globalconstructionreview.com [accessed 26 January 2024]

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 January 2024]

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 January 2024]

The Guardian, Higher Education / Universities [online]. Further information is available at: www.guardian.co.uk/higher-education-network [accessed 26 January 2024]

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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 January 2024]

HSE, Health & Safety in the construction industry [online]. Further information is available at: www.hse.gov.uk/construction [accessed 26 January 2024]

HSE Publications [online]. Available at: www.hse.gov.uk/pubns/index.htm [accessed 26 January 2024]

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 January 2024]

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 January 2024]

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 January 2024]

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 January 2024]

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 January 2024].

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 January 2024]

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 January 2024]

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I

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 January 2024]

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 January 2024]

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 January 2024]

ICE Virtual Library [online]. Available at: www.icevirtuallibrary.com [accessed 26 January 2024] 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 January 2024]

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 January 2024]

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 January 2024]

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 January 2024]

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 January 2024]

IWFM Digital Magazine, *facilitate* - Informing workplace and facilities management professionals. IWFM *facilitate* [online]. Available at: www.facilitatemagazine.com/ [accessed 26 January 2024]

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 January 2024]

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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 January 2024].

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 January 2024] 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 January 2024]

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 January 2024]

Leeds Beckett University's - Sustainability [online]. Further Information is available at: www.leedsbeckett.ac.uk/leeds-sustainability-institute [accessed 26 January 2024]

Leeds Beckett University – The Library [online]. Available at: <http://libguides.leedsbeckett.ac.uk/home> [accessed 26 January 2024]

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 January 2024]

Local Government Association (LGA) is the national voice of local government. They work with councils to support, promote, and improve local government. LGA [online]. Available at: www.local.gov.uk [accessed 26 January 2024]

LGA Building Safety Knowledge Hub - The Local Government Association and the National Housing Federation are co-hosting an online social housing building owner network across England, to provide information, and develop and share good practice, on building safety. LGA [online]. Available at: www.local.gov.uk/topics/community-safety/building-safety-knowledge-hub [accessed 26 January 2024]

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M

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N

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Registry of Open Access Repositories - ROAR is hosted at the University of Southampton, UK and is made possible by funding from the JISC. ROAR is part of the EPrints.org network and promotes the development of open access by providing timely information about the growth and status of repositories throughout the world. ROAR [online]. Available at: <http://roar.eprints.org/> [accessed 26 January 2024]

Residential Landlord – an online resource providing Landlord Resources, a Document Download Centre (containing templates and free tenancy agreements to amend and use as required), news and views, advice, and guidance [online]. Further information is available at: <https://residentiallandlord.co.uk/> [accessed 26 January 2024]

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RICS Knowledge and Information Services – The aim is to combine the best of RICS's traditional library service (**RICS library catalogue**) and space with an enquiry and resource service, RICS Knowledge and Information Service [online]. Available at: www.rics.org/profession-standards/knowledge-and-information-services [accessed 26 January 2024]

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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 January 2024]

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 January 2024]

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 January 2024]

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Tomorrow's Engineers brings together resources and evidence to support the engineering community in getting the most out of their engagement activity. Tomorrow's Engineer [online]. Available at: www.tomorrowsengineers.org.uk [accessed 26 January 2024]

Trust in Digital Repositories (TrustDR) – a research project that examined how to effectively manage the legal aspects of digital collections of learning resources and produced a policy

development toolkit. TrustDR [online]. Available at: <https://trustdr.digitalinsite.co.uk> [accessed 26 January 2024]

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U

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UK BIM Alliance - here to help the built environment sector to take the first fundamental step in your journey to digital transformation. UK BIM Alliance [online]. Available at: <https://ukbimalliance.co.uk/> [accessed 26 January 2024]

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 January 2024]

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 January 2024]

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 January 2024]

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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 January 2024]

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 January 2024]

- **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 January 2024]

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 January 2024]

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 January 2024]

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 January 2024]

(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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