University of the Built Environment
EST. 1919

Patron: His Majesty King Charles III

Horizons, 60 Queen's Road, Reading, RG1 4BS
ube.ac.uk | +44(0)118 921 4696 | enquiries@ube.ac.uk

University of the Built Environment
Institutional Research Repository

Title	Knowledge Foundations, Issue 12 - December 2023
Author(s)	Lucy B M Roper
ORCID	https://orcid.org/0009-0008-3176-2266
Type	Other
Publication title	
Publisher	UCEM
ISSN/ISBN	
Date	1 December 2023
Version	
DOI	
Repository link	https://ube.repository.guildhe.ac.uk/id/eprint/100/
Link to publication	https://www.ucem.ac.uk/e-library
Notes	This publication version may differ from the final version

Copyright:
The University aims to make research outputs available to a broader audience via its digital Repository. Where copyright permits, full text material held in the Repository is made freely available. URLs from GuildHE Research Repositories maybe freely distributed and linked to. Please refer to each manuscript for any further copyright restrictions.

Reuse: Copies of full items can be used for personal research or study, educational, or not-for-profit purposes without prior permission or charge provided that the authors, title and full bibliographic details are credited, a hyperlink and/or URL is given for the original metadata page, and the content is not changed in any way.

Knowledge Foundations

Inside This Issue

01 UCEM News
02 Other News
03 Property & Construction Statistics
04 Built Environment Research
05 e-Journal Review
06 e-Book Review
07 UCEM e-Library
08 Student Career Service
09 UCEM's Sustainability Hub
10 Information Governance

A to Z of useful references and web-links

What's in this month's issue

- **Latest UCEM News,** incl. - Principal Ashley Wheaton marks 10-year anniversary at UCEM.
- **Things you need to know this week** – Levelling Up and Regeneration Bill becomes law. New laws are intended to speed up planning and boost housing delivery and regeneration.
- **Latest Research** from Savills, RICS, CIOB, CBRE, JRF, The Smith Institute, and more.

Happy reading!

Issue 12 – December 2023

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

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

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

(R. David Lankes)

The initial aim of this UCEM Library's current awareness service was to help keep students and staff informed of the education sector and industry-specific news, share current and best practices, highlight the latest research, and identify case studies that will support studying and supplement teaching and learning resources. However, over the years and upon request, the readership has now expanded.

We welcome news and information from readers to include in future editions - please **email us**.

Supported Online Learning

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

Visit Supported Online Learning

Back to top

UCEM News

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

Happy Christmas and a prosperous New Year!

Also:

Principal Ashley Wheaton marks 10-year anniversary at UCEM

1 November marked a special day in the UCEM calendar as Ashley Wheaton celebrate 10 years in post. In a hybrid speed to staff both at the Horizons office in Reading and to employees working remotely, Ashley looked back on is tenure to date and assessed the progress UCEM had made in that time.

Access further information on our Student Officers, and the article, '**Principal Ashley Wheaton marks 10-year anniversary at UCEM**' in full.

Globe: UCEM's ambition to create a more sustainable built environment

UCEM is proud to announce Globe – our framework to drive change and advocate for a more sustainable built environment. Climate change is a global emergency – it isn't going away any time soon. With temperatures and sea levels rising and more and more extreme weather events occurring around the world, the race is on to mee the UN's Sustainable Development Goals and achieve net zero.

Access further information on our Student Officers, and the article, '**Globe: UCEM's ambition go create a more sustainable built environment**' in full.

Introducing: our Student Officers for Sustainability

- Our ambition at UCEM is to become the world's most sustainable university and we believe our students are at the heart of our journey to achieve this. Our Student Officers will lead on and support us to deliver sustainability student initiatives, be our critical partner, champion the learner voice and raise awareness of UCEM's sustainability work to our student community and beyond.

Access further information on our Student Officers, and the article, '**Introducing: our Student Officers for Sustainability**' in full.

Back to top

Other UCEM News

© UCEM 2021

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.

UCEM INSPIRE helps leaders build sustainable futures

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

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

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

Back to top

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**.
- **Related article(s):**

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

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

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

Access the article '**Tackling the Climate Crisis – deeper engagement from smaller and specialist universities highlighted in new report**' in full.

UCEM new masters degree to expand skills base and lead sustainability charge in built environments

© UCEM 2022

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

Access the article '**UCEM new masters degree to expand skills base and lead sustainability charge in built environments**' in full, and **MSc Innovation in Sustainable Built Environments programme page** for further information.

Back to top

UCEM Article: Practical tips for saving energy costs

- We are in the midst of a cost-of-living crisis which has spread across the globe. Significant increases to the cost of food, energy, and spiralling inflation has plunged countless into poverty. In this article, UCEM takes a look at practical ways to save energy that can be actioned without spending too much money.

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

Also:

UCEM places 13th in list of best 50 training providers

UCEM hosts hybrid workshop on gender equality in Jordon and Egypt

UCEM joins campaign to drive better gender balance at board level, and

- **Access further information about the 30% Club**,
- **Access more information on UCEM's diversity and inclusion objectives**

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, and

- **Access further information on Advance HE.**
- **For more on UCEM's ambitions, take a looks at the Institution's *Vision and Strategy* brochure**

Note: Keep abreast of the latest UCEM News and events – Read our blog to keep updated on Building Environment industry insights, student case studies, and thoughts from UCEM Principal: Ashley Wheaton.

Further information and the latest developments can also be found via the **UCEM Website**, **& don't forget** that the UCEM **e-Library** can be accessed 24/7 (via the VLE-Virtual Learning Environment) with a wealth of valuable resources to help 😊. If you have any further questions, please contact:

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

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

Back to top

Other News

Things you need to know this week: Levelling Up and Regeneration Bill becomes law

- New laws are intended to speed up planning and boost housing delivery and regeneration activity.

The government's Levelling Up and Regeneration Bill has this month (see publication date) received royal assent and become law. New measures introduced through the act to drive regeneration include powers for local authorities to bring empty buildings back into use, using high street auctions, and reform of compensation for compulsory purchase orders by removing 'hope value' where justified. Victoria Hills, chief executive of the Royal Town Planning Institute (RTPI) said of the act: "Government must now engage frequently with planners to ensure that new reulgations and policy changes enabled by this work as intended to get more homes delivered, attract more investment for growth and level up our country." Sam Stafford, planning director at housebuilding industry body the Home Builders Federation, said, "We hope that reforms aimed at simplifying the planning system can be followed through".

Also, this month,

- Solihull, West Northamptonshire and Wolverhampton councils have all named development partners for upcoming regeneration schemes. Solihull Council has selected developer Muse as its preferred partner for the mixed-use redevelopment of the town centre's Mell Square.

- West Northamptonshire Council has confirmed developer Cityheart as its preferred partner to help bring forward the redevelopment of two sites close to Northampton station in the town centre. The Four Waterside and Marefair sites are earmarked for a hotel, office space and a hotel, which will be delivered alongside public realm improvements. Work on the redevelopment is expected to start in 2025.

- City of Wolverhampton Council has confirmed build to rent redeveloper Placefirst as its preferred partner to deliver 366 homes in Wolverhampton's Canalside Quarter regeneration area. The developer has already secured planning permission to deliver homes and commercial space on the brownfield site at Lower Horsley Fields. It will note finalise plans while the site close to the city's new transport interchange continues to be remediated in preparation for construction to start in 2024.

- Major Japanese developer and home manufacture Daiwa House has entered the UK housebuilding sector in a partnership with developer Lendlease. The pair are collaborating to deliver 259 homes at Lendlease's ongoing Elephant Park scheme, at the

Back to top

Elephant and Castle in south London.

- Independent evaluation of the impact of the 2023 Eurovision Song Contest on host city Liverpool found the event gave a £54 million economic boost to the city region. The study looked at the economic and social impacts of staging the event on behalf of Ukraine, as well as its influence on cultural relations, impact on wellbeing in the city and city region, visitor experience and the effectiveness of strategic collaboration between delivery agencies.

Read the article, Smit, J. (2023) 'Levelling Up and Regeneration Bill becomes law' 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: A model health and cultural centre for elderly people

- 2023's RIBA Stirling Prize winner, the John Morden Centre, is exemplary in its design and its broad focus on health and wellbeing, writes the author of this article.

The Royal Institute of British Architects' (RIBA) Stirling Prize is associated with high profile buildings, like analytics and media company Bloomberg's Foster + Partners' designed landmark headquarters in the City of London, 2018's winner. This year, the prize has gone to a project that is less high profile, but nonetheless important in the contribution it makes to national debate about pressing social challenges that ultimately touch us all.

The John Morden Centre, in Blackheath, south east Longon, is a hub for elderly people, which usually combines a health centre with cultural and social spaces, including an arts and crafts room, a café and a theatre, the latter created in an existing building integrated into it. Carefully and considerately crafted, designed and executed, it is a beacon of best practice in a country where the social care sector is in dire straits, with an estimated 1.6 million people aged 65 or over having unmet needs for care and support, according to charity age UK.

The charity's State of health and care of older people in England 2023 report highlights how the failure to prevent and intervene early to enable older people to stay fit and well has negative consequences for the elderly, their families and carers and the National Health Service. In addition, loneliness has been found by the charity to afflict 1.4 million older people in the UK and is associated with poorer physical and mental health and lower wellbeing.

These are all key concerns for the UK today but are set to become even more costly – in both human and financial terms – with our

Back to top

ageing demographic. The 2021 Census found that 18 per cent of the population is now aged 65 or over, up from 16.4 per cent in 2011.

Challenges

The hub has been created by Morden College, a charity, founded in 1695, that supports older people in financial hardship. It houses almost 300 people on its sites in Blackheath, south east London and Beckenham in Kent, in its almshouses and extra-care home.

Its Blackheath campus is the location of its almshouse, the grade 1 listed Morden College, whose design is attributed to Sir Christopher Wren. The hub is the latest in a series of additional accommodation buildings to be built on the fringes of the campus over the centuries and has been constructed on a constrained silver of land that had predominantly been used as a car park.

Solution

Mae's design for the centre reinterprets aspects of the original college building, having a similar cloister and tall chimneys. The colonnade, extending through the centre and past courtyard gardens, leads to a series of pavilions housing the health, cultural and social spaces, the pavilions themselves mirroring the chapel and dining room attached to the college's quadrangle.

The hub's layout was largely determined by the constraints of the long, narrow site. But this has enabled the different functions to have separate spaces in the pavilions, so that the choir can rehears in the theatre without disturbing patients receiving attention in the health centre, for example.

Learning

The client's brief was inspired by the cancer support centres developed by the Maggie's charity on hospital campuses, and in particular, says Alex Ely, founding director of the centre's architect, Mae, "recognised the potential for architecture to uplift the spirit".

The building thoughtfully supports users while studiously avoiding more traditional approaches. Seating and handrails are integrated into the cloister, which has been made wide enough for two wheelchairs to pass. Windows along either side of the cloister provide views to the gardens, and to activities in the pavilions, connecting people to nature and community.

Project team

Architect: Mae; **Client:** Morden College; **Main contractor:** Clive Graham Associates; **Structural engineer:** Michael Hadi Associates; **M&E consultant:** BOOM; **Project manager and quantity surveyor:** Calford Seaden; **Planning consultant:** Stanway Little; and **Landscape designer:** J&L Gibbons.

Back to top

Read the Case Study, Smith, J (2023) 'A model health and cultural centre for elderly people' 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: Helping high street retail survive and thrive

- Government initiatives to help the high street retail uses may not go far enough, finds the author of this article.

The government has made retail intervention and repurposing key levers in its strategies to help drive levelling up and high street revival across the UK.

While change of use of empty shops is being facilitated through permitted development rights, occupancy of vacant retail premises is set to be enabled through the Levelling Up and Regeneration Bill's (LURB) proposed High Street Rental Auction (HSRA) powers.

Place based network, the Institute of Place Management (IPM), estimates that HSRAs might be deployed for just one or two in every 20 vacant units. In **a position paper** publication in June, it points to a number of reasons why they may not be well used.

Property body the British Property Federation (BPF) has **consistently argued** for alternative interventions that could help support the retail sector, including business rate reform, root-and-branch review of landlord and tenant legislation and the creation of new town centre investment zones.

Business rate reform is, however one of a range of measures being advocated by researchers following a three-year study of 100 high streets. **The study** by Manchester Metropolitan University, working with architect BDP and neighbourhood charity Quality of Life Foundation and funded by the Royal Commission for the Exhibition of 1851, sets out a series of practical actions.

Manchester Metropolitan University's (MMU's) recommendations to help town centre and high street decline:

1. Halting out-of-town development and relocating services like local councils and leisure facilities in and around town centres.
2. Better, more positive town planning rather than permitted development tights, that allow the conversion of vacant shops to housing, which reduces the attractiveness and retail footfall of high streets.
3. Planning for future uncertainty by building urban environments made up of small and medium-sized flexible units that can be adapted.

Back to top

4. Increasing the diversity of retail and stopping the measure of success based on the presence of a small number of national retailers.
5. Tackling vacancy by providing incentives for independents, like low commitment pop-up leases, subdividing units and recycling fittings.
6. Reforming business rates, which for many retailers are unsustainably high.
7. Considering new models for town centre development that are less dependent on pre-lets to major retailers. This will involve a new breed of retailer developer as well as an increasing role for councils in acquiring and managing retail space.
8. Rejecting the unified ownership model of shopping centres in favour of a diversity of owners and units encourage innovation and resilience.
9. Improving the environment of high streets to instil confidence, change perceptions and help with practical methods like space for seating and markets.

Further information and read the article, Smit, J. (2023), 'Analysis: Helping high street retail survive and thrive' 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: Promoting life science clusters in urban centres

- Life science companies are increasingly looking to urban locations for their research and development operations, but councils need to understand their particular needs, finds the author of this article.

The vital role of the life science sector gained the spotlight during the Covid pandemic, with the development of vaccines. The companies, which develop a far wider range of biomedical products than vaccines, are moving into urban centres and can play an important role in their revitalisation.

The contribution that life sciences make to the UK economy is growing fast. In 2020, their turnover in the UK was £88.9 billion and the sector is responsible for 268,000 jobs in 6,330 companies, according to figures from the government's Office for Life Sciences.

Science clusters are mainly located in the triangle between London, Oxford and Cambridge, but there are developments in Bristol, Manchester and Glasgow.

Back to top

Here are five ways to promote life science clusters in urban centres.

1. Use local plans to support new clusters

“Local authorities need to work with their universities and hospital and identify opportunities in their local plans and economic strategies for new clusters”, says Guy Kaddish, partner at planning consultancy Bidwells.

Live sciences are encouraged within the National Planning Policy Framework and are included in the flexible use class E, which allows a range of businesses and services within town centres. “To meet the particular requirements of their operations, councils need to understand the companies’ needs,” says Kaddish.

2. Support the retrofit of existing city centre buildings for life science companies

“With the pressure to respond to the growing demand from life science companies, developers are looking to adapt existing buildings,” says Alex Neal, partner at consultancy Gerald Eve.

3. Create a mix of uses and tech sectors

“Locations should include a mix of uses and can incorporate clusters working in a range of sectors,” says Stanhope’s Reay. The company took on the BBC’s former headquarters at White City, in west London, and is converting the existing buildings and planning new ones.

4. Building on existing science parks

Many universities over the years set up science parks for spin-off companies from their science and technology departments. These tended to be on the edge of town in a leafy green location. The demand from companies and scientists now is for more urban locations, at least for the research and development functions.

5. Maximise local benefits

The life sciences sector offers local communities many opportunities for training and work experience.

Some councils have policies to secure affordable workspace as part of the Section 106 agreement. Camden has a policy that 20 per centre of new workspace should be available to start-ups at below market rents.

Further information and read the article, Kochan, B. ‘Advice: Promoting life sciences clusters in urban centres’ 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’).

Back to top

Education Latest [November 2023]

Access the latest Education news

Bedford students given £3.6k to help with university costs -A student who has been given financial help to attend university says that without the money, they would not have been able to study.

Also: UCEM Financial Support on UCEM Website

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 [November 2023]

Access the BBC News, Latest Climate reality check

World shift to clean energy is unstoppable, IEA report says

- The world is on an "unstoppable" shift towards renewable energy but the phase down of fossil fuels is not happening quickly enough, a new report says.

The International Energy Agency, the global energy watchdog, predicted renewables would provide half of the world's electricity by 2030.

But it wanted that emissions were still too high to prevent temperatures rising about a key threshold of 1.5C.

Also: 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 [November 2023]

Coronavirus pandemic

- What to do if you have Covid,
- Error to open pubs not schools, Covid enquiry told,
- What you need to know about Covid as new variant rises
- What is the UK Covid inquiry and how long will it take,
- Covid and flu winter jabs to be brough forward, and
- Covid-19 in the UK.

Access the BBC Health News, incl. Latest Coronavirus pandemic news

Back to top

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

Access the BBC News article entitled, 'Coronavirus: Why some people want to keep working from home,' in full.

Also:

Living with Covid plan to restore our freedom - PM

What are the UK's 'Living with Covid' plans?

The evolution of building surveying education during COVID-19

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

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

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

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

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

Further information and access to the article 'The evolution of building surveying education during COVID-19', in full.

Access further information about UCEM's Supported Online Learning > e-Library.

Will COVID-19 accelerate construction's digital transformation?

- With many industry professionals forced to work remotely, is now the perfect time for construction to get up to speed with all

Back to top

things BIM and digital? *Construction Manager* magazine finds out if the coronavirus will change the way we work forever.

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

Mark Boyle – Global design direct, Robert Bird says, **'Our digital processes lend themselves to remote working.' (Boyle 2020),** and Gary Fannon – Technology director, Turner and Townsend says, **'Early digital adopters will be reaping the rewards.' (Fannon 2020)**

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

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

Read the *Construction Management* (formerly *Construction Manager)* article 'Will Covid-19 accelerate construction's digital transformation', in full.

Related links:

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

Read the *Construction Management* article, 'What will the post-pandemic office look like?' in full.

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

Read the Shoosmiths article, 'Generation Work from Home' – the impact of default flexible working' in full.

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

© Emerald Publishing 2021

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

Back to top

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 © Henry Stewart Talks Ltd 2021

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*) [November 2023]

Dealing with combustible cladding down under

- Flammable facades are not just a feature of UK buildings. The author of this article reports from Sydney on Australia's approach to cladding remediation.

The Australian state of New South Wales (NSW) is attracting international attention for its approach to replacing flammable cladding on multi-unit residential buildings.

Launched in March 2021 after the stated passed the Design and Building Practitioners Act 2020 the year before, Project Remediate targets 225 buildings deemed at risk, predominantly in Sydney and its greater metropolitan area.

Further information, as well as access to read the article in full – Sweet, R. (2023) 'Dealing with combustible cladding down under', *Construction Management* [online], 31 October. Available at: https://constructionmanagement.co.uk/combustible-cladding-australia/ [Accessed 3 November 2023]

Also: Reinforced autoclaved aerated concrete (RAAC): key questions answered

Back to top

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) [November 2023]

Montreal's new bridges made with 70,000 wine bottles

- Canadian architect Provencher_Roy is toasting the completion of a pair of bridges it designed in Montreal made with concrete 10% comprised of ground, recycled glass.

Calling it a world first, the practice said the 40,000kg of glass used as a ternary binder represented **70,000 wine bottles.** It said using the ground glass pozzolan cut greenhouse gas emissions on the project by 40 tonnes, the equivalent of one car driving 200,000km.

Access and read the article in full, Sweet, R., (2023) 'Montreal's new bridges made with 70,000 wine bottles', *Global Construction Review* [online], 3 November. Available at: www.globalconstructionreview.com/montreals-new-bridges-made-with-70000-wine-bottles/ [accessed 3 November 2023]

Further reading:

Developer sets record with 10 houses printed in Kenya

Shoosmiths UK law firm Insights and Articles

- Read the latest insights, articles, and commentary from Shoosmiths UK law firm or explore their content library, or listen to the latest podcasts **[November 2023]** surrounding sectors such as **Living (Sector) incl. Real Estate** covering:

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

- The court has considered the discretionary grounds of opposition under the Landlord and Tenant Act 1954 ("the 954 Act") in the recent case of **Gill v Lees News Ltd [2023] EWVA Civ 1178.**

Back to top

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

Back to top

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 Apprenticeshop 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 rgulatory 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.

Back to top

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 [November 2023] 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 natils* (C794)**

Grenfell Tower Inquiry – latest developments

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

Latest update [November 2023]

End of Phase 2 Hearings

- The Inquiry has concluded hearings for Phase 2 and is closed to the public. The Inquiry Panel will continue preparing the final report.

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

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

• **October 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 costruction industry had early evidence of the dangers posed by cladding, 13 years before the Grenfell Tower fire.

Panels, commonly used on buildings in the UK, failed fire tests carried out in 2004.the Inquiry venue at 13 Bishop's Bridge Road, London, W2 6BU. The results marked "Commercial in confidence," were circulated within an industry advisory group. They were recently passed to the BBC (see publication date) and, until now, neve made public. Hundreds of thousands of flat owners are now threatened with large bills because of construction materials which pose a risk in fires.

The 2004 results were among the first from a British test of full-scale building systems, developed in the late 1990s when there were growing concerns in Parliament about the risks of cladding. The tests were part of research commissioned the then Labour government to determine what standards building systems should have to meet.

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

Related Topics:

- Construction industry
- UK fire safety
- Grenfell Tower fire
- Grenfell Tower Inquiry

Also:

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

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].

Back to top

Government details fire safety-related changes to planning system

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

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

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

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

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

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

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

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

RIBA Stirling Prize 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.

Back to top

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.

UTS ePRESS is Open Access and licensed under **Creative Commons Attribution 4.0 International Licence**.

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.

Back to top

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.

Back to top

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 September 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 case 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 16 August 2023' in full.

Contents:

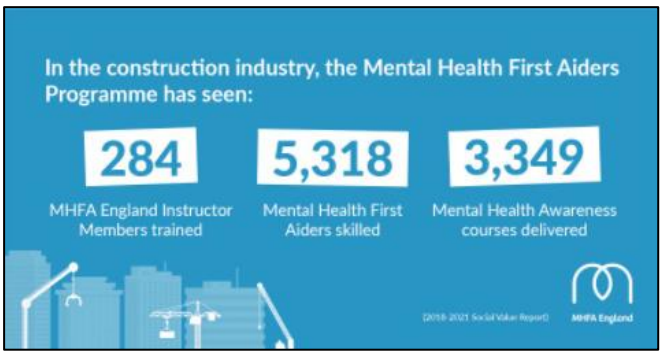
- Julye 2023
- About the UK HPI, and
- Archived reports and data.

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

Back to top

Tackling mental health and wellbeing within the construction industry



© MHFA England

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

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

Find out more about the social value of the programme

Related Links:

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

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

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

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

UCEM mental health strategy

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

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

Back to top

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

Back to top

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:

Back to top

- 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.

Back to top

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

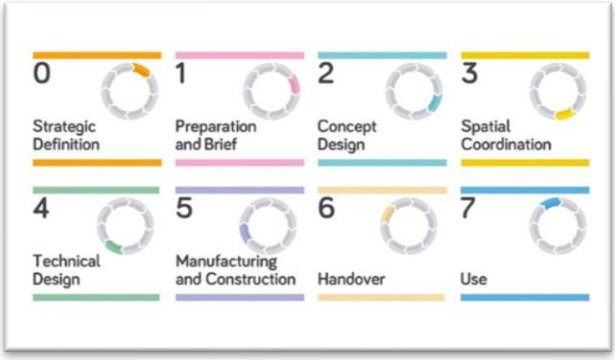
4 – Technical design – no change

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

Back to top

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

[November 2023] –

- **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

Back to top

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'**, **BIM**PLUS 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

Back to top

case study article by Stanton, J., (2023), entitled, **'Digital collaboration key to Manchester campus success'**, **BIM**PLUS 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'**, **BIM**PLUS 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'**, **BIM**PLUS 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'**, **BIM**PLUS 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'**, **BIM**PLUS Projects.

Back to top

BIM in action: 2020's top five projects

22 December 2020

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

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

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

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

Related BIM+ Projects

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

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

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

  Sisk highlights some significant outcomes:

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

Back to top

- **(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 Stavenger 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 **[November 2023]** of NBS CIS *Insights* 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 global thread of information.

Back to top

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 [November 2023]

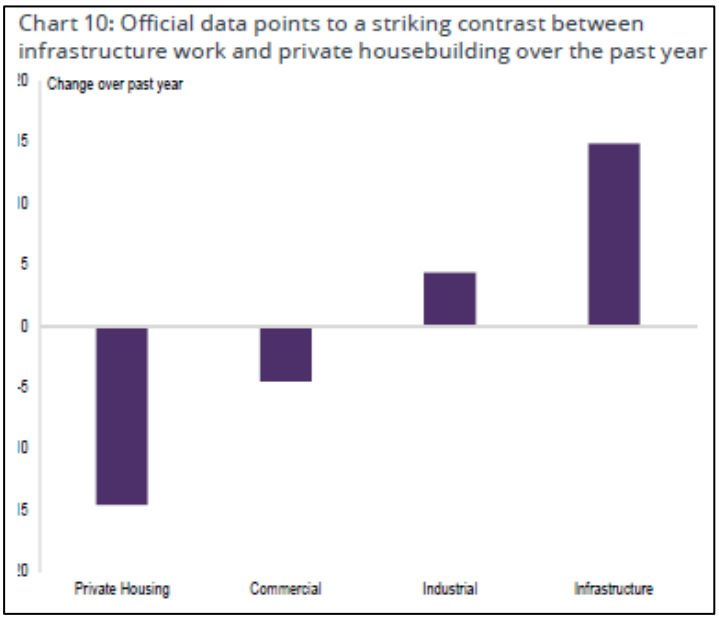
UK Economy and Property Market Update, August 2023
- Interest rates likely to remain at an elevated level for some time to come.

Summary: Although the headline inflation rate is beginning to fall, concerns persist about the core measure which could remain a little more troublesome. This is fuelling expectations that interest rates will stay close to current levels through well into next year (2024). Feedback around commercial real estate points to the subdued trend persisting while the resilience in the residential sector is seen as likely to fade somewhat. However, construction activity is still expected to grow over the coming year led by workloads in the infrastructure sector.

Construction Sector – Official data on construction activity is pointing to an essentially flat picture at an aggregated level, however this marks significantly divergent trends at a sector level. Most notably as highlighted in Chart 10 overleaf, private housing output appears to be around 15% lower than a year ago. The contrast to this is provided by the infrastructure component which is showing a broader similar gain over the same time period thanks to HS2, Hinkley Point and the Thames Tideway. This has been sufficient to counter delays and cancellations to some roads projects as well as work stopping at Euston station.

Back to top

Meanwhile as might be expected, industrial related work is continuing to grow while commercial developing is trend a little lower.



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

Looking forward, feedback to the Q2 *RICS Construction Monitor* suggests that workloads in the private residential sector will be fairly flat over the next twelve months. A net balance of just +1% of respondents anticipate an increase in activity (rather than a decrease) which compares with +9% in Q1. Predictably, the insights provided around infrastructure continue to show a more buoyant picture with the net balance at +27%, little changed from the previous survey.

Read the full piece of research 'RICS UK Economy and Property Market Update, August 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: September 2023
- Conditions remain challenging across the sales market

- Indicators on demand, sales, instructions and prices all remain in negative territory,
- Near-term outlook still downbeat although twelve-month sales expectations are now stable, and
- Mismatch between rising tenant demand and falling supply continues to drive rents higher.

The September 2023 *RICS Residential Survey* results continue to depict a challenging market backdrop, with stretched mortgage affordability still the dominant factor weighing on buyer demand.

Back to top

While the near-term outlook remains relatively downbeat, twelve-month sales expectations have at least stabilised of late. Perhaps linked to this, anecdotal comments left by contributors suggest that the Bank of England's decision to pause monetary policy tightening last month (see publication date) has provided a little bit of support to market sentiment.

In terms of buyer demand, the latest headline net balance for the new buyer enquiries series came in at -39% during September. Although still consistent with a weak demand picture, the latest reading is marginally less negative than the figure of -46% seen in the previous iteration of the survey. Nevertheless, most parts of the UK continue to return firmly negative reading for the new buyer enquiries indicator at this stage.

Looking at agreed sales, the September results remain mired in negative territory, producing a national net balance of -37%. That said, this is again slightly less downcast than readings of -46% and -45% seen in August and July respectively. For the coming three months, respondents continue to envisage a decline in sales volumes, even if the latest net balance moved to -24% from a more negative reading of -36% beforehand. Looking further ahead, the twelve-month sales expectations series returned a net balance of +3% (up from -5% last time) which is signalling a much more stable trend in sales volumes emerging over the year ahead.

Alongside the continued softness in buyer demand, respondents also note that the volume of new listings coming onto the sales markets is in decline (evidenced by a net balance reading of -17% in September). As such, new instructions have now reportedly fallen in each of the last three months, resulting in average stock levels on estate agents books holding broadly steady at 38 properties since July.

Read the latest RICS UK Residential Market Survey: September 2023 in full.

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

- Sales market sentiment remains negative while rental market continues to recover

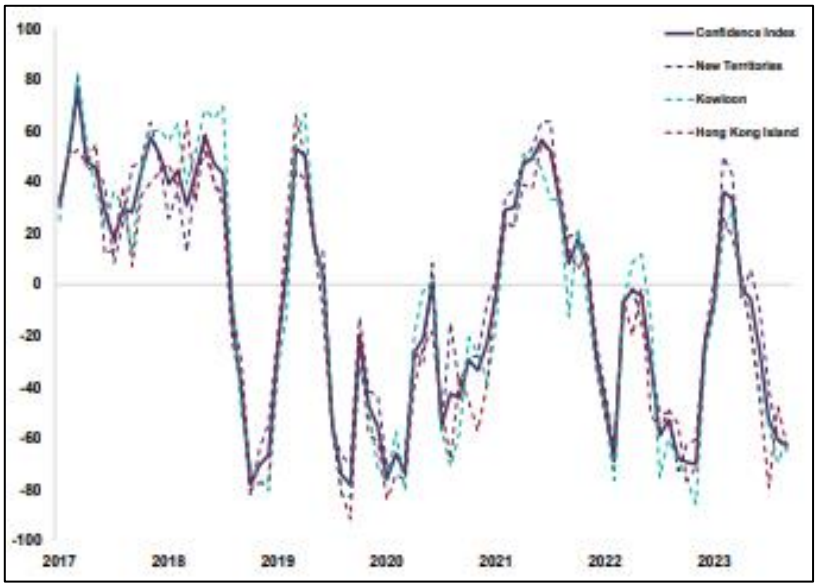
- Headline confidence index still in negative territory,
- New buyer enquiries continue to drop, and
- Long-term rental expectation turn positive.

The results for the September 2023 *RICS-Spacious Hong Kong Residential Property Monitor* show a stark contrast between feedback for sales and lettings markets. Chart 1 displays the headline confidence index which continues to show weakened sentiment with a reading of -63 in the latest month (September 2023). At the district level, Hong Kong Island saw the most significant declines, slipping from -48 to -63. Concurrently, the

Back to top

headline index in Kowloon and the New Territories stood at -60 and -65, which are similar to the levels seen in August.

Chart 1: Confidence Index*:



© RICS 2023

Source: RICS Economics Research: *RICS Hong Kong Residential Monitor – September 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: September 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, Q3 2023
- CRE sentiment broadly unchanged in Q3 with MEA and parts of APAC seen as outperforming.

- Commercial Property Sentiment Index remains in negative territory at a global level,
- Little sign of a shift in the mood music across more mature markets where feedback remains downbeat,
- The results from MEA and parts of APAC continue to paid a more positive picture, and
- Expectations continue to favour non-traditional assets.

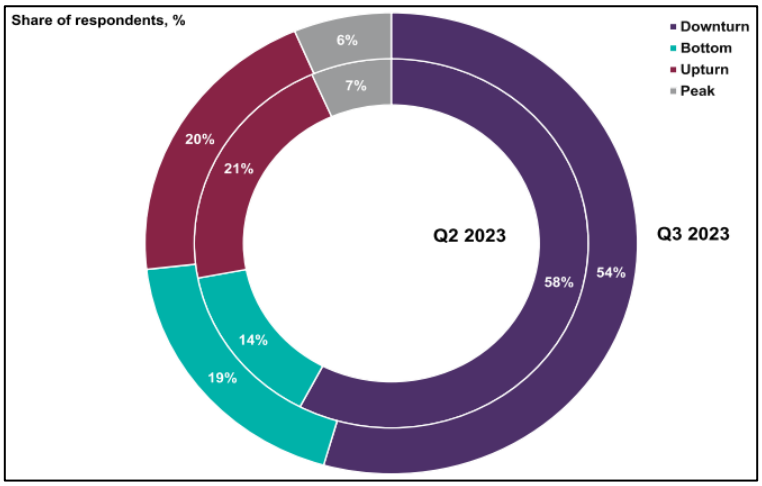
Back to top

The Global Commercial Property Monitor (GCPM) Q3 2023

With the interest rate cycle in advanced economies seemingly close to peaking, but the Fed's overarching message of 'higher for longer' becoming more embedded in expectations, it perhaps no surprise that feedback to the *Q3 The Global Commercial Property Monitor (GCPM)* is little changed from that received in Q2. Most notably, the headline Commercial Property Sentiment Index (CPSI) came in at -15, which compares with -14 in the previous three-month period, -11 in Q1 and -15 in the final three months of 2022. The largely unchanged (albeit negative reading) for the aggregated metric was also reflected in both the occupier and investment component parts. In the case of the Occupier Sentiment Index, the global reading slipped from -11 to -13 while for the Investment Sentiment Index, the latest number is -18 as against -14.

Perceptions regarding property cycle paints cautious message – Chart 6 shows the global response to the question regarding where the real estate market currently sits in the property cycle. This, of course, masks the very divergent regional and (more markedly) country trends visible in the results. Nevertheless, it provides an overarching picture highlighting the challenging environment for real estate. If one is looking for any encouragement, it might be provided by the proportion of respondents suggesting the market is in the early phase of a downturn dropping to 20%, the lowest share since Q1 2022. However, this has been offset by an increase in the percentage indicating the market to be either in the middle of a downturn or at the bottom of the cycle (54% as against 44% in Q2).

Chart 6: Global Perceptions Regarding Point in Cycle



© RICS 2023

Source: RICS Economics Research: *RICS Global Commercial Property Monitors, Q3 2023*, London: RICS, p4 - Chart 6.

Read the latest RICS Global Commercial Property Monitor, Q3 2023 in full.

Back to top

Latest Statistics from the Office for National Statistics (ONS)

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

Construction Industry highlights include – Construction output in Great Britain: August 2023
- Short-term measures of output by construction industry in August 2023, contracts awarded for new construction work in Great Britain.

What's covered in the latest bulletin?
- Monthly construction output is estimated to have decreased 0.5% in volume terms in August 2023; this follows an upwardly revised decrease of 0.4% in July 2023, with the monthly value in level terms in August 2023 at £15,584 million.
- Monthly construction output is estimated to have decreased 0.5% in volume terms in August 2023; this follows an upwardly revised decrease of 0.4% in July 2023, with the monthly value in level terms in August 2023 at £15,584 million.
- Monthly construction output is estimated to have decreased 0.5% in volume terms in August 2023; this follows an upwardly revised decrease of 0.4% in July 2023, with the monthly value in level terms in August 2023 at £15,584 million.

Read the full statistical bulletin, 'Construction output in Great Britain: August 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.

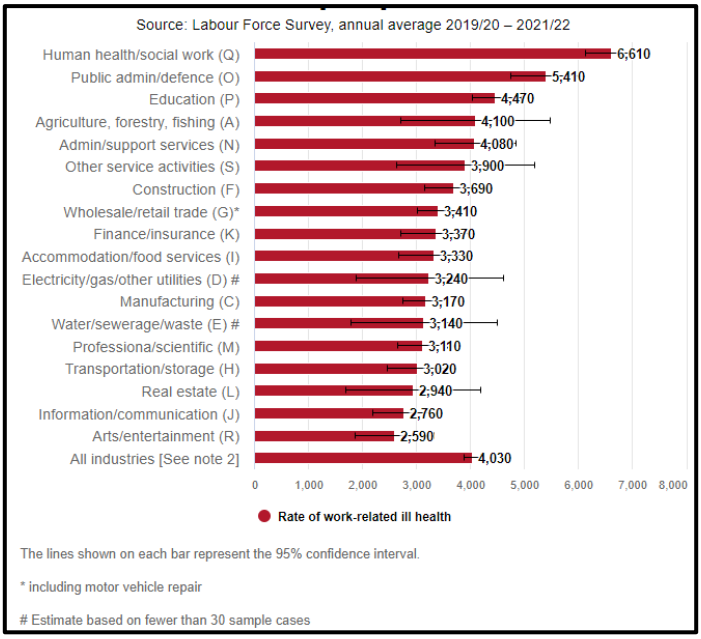
Latest Statistics from HSE – Health and Safety Executive

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).

Back to top

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

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



© Crown copyright 2023

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

Source: HSE (2022) 'Self-reported work-related ill health', Bootle: HSE [online]. Available at: **www.gov.uk/statistics/industry** [accessed 17 March 2023]

Access further information on health and safety statistics from HSE – Health and Safety Executive.

Back to top

Built Environment Research

Latest Policy and Research from:

1) Savills *Market Trends*

- LATEST: Market Trends: Savills.com [November 2023]

A global semiconductor chip race will create opportunities for real estate investors

- Semiconductors; your country needs you!

The Ford Motor Company market their range of light commercial vehicles in the UK as the 'Backbone of Britain.' While a clever metaphor, that is where the analogy ends. In the automotive sector, and indeed, across much of the global economy, the true backbone is the semiconductor.

Back to top

Access further information and Salmon, O. (2023), Market Trends – 'A global semiconductor chip race will create opportunities for real estate investors', 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'.

Real estate investment in 2023: macro-outlook

- As the bears reign supreme, central banks search for the elusive 'Goldilocks Zone', says the author of this Market Trends report.

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

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

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

World economies set for a slow start in 2023 – Recent economic data reveals little positive momentum being carried into the new year, while sentiment-based indicators suggest a further deterioration in activity in early 2023.

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

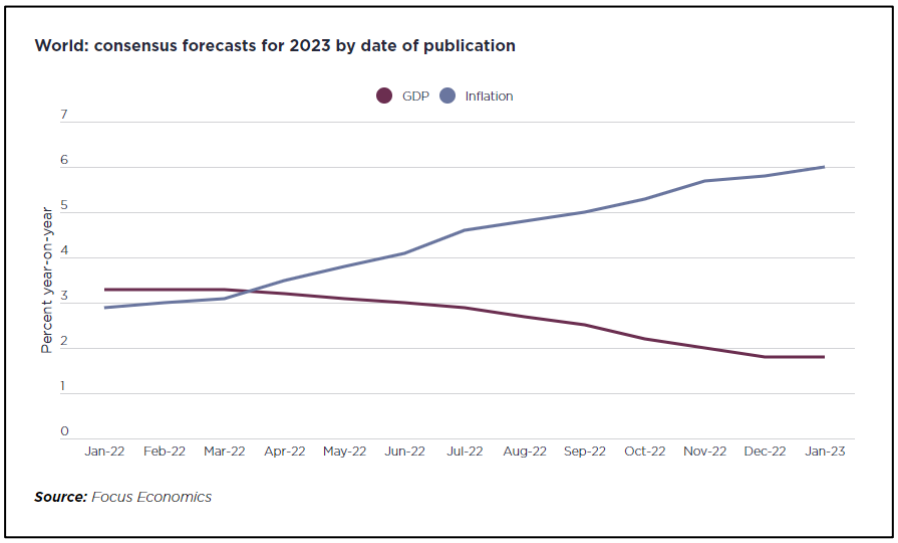
Overall, the global economy is expected to grow by just 1.8% next year (2024), well short of the 3.1% average for the decade leading up to the Covid-19 pandemic.

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

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

Back to top

World: consensus forecasts for 2023 by date of publication



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

But there are also reasons for cautious optimism. Inflation has peaked, with interest rates set to follow suit. If inflation follows the path of least resistance, then the central bank pivot, which will support ailing economics, is still in play.
Developments in China are also positive. The authorities have eased zero-Covid rules; if managed correctly, this could prompt a strong domestic recovery and provide some impetus to global growth in the second half of the year. However, if recent experience tells us anything, it is to expect the unexpected. Any exogenous shocks – relating to geopolitics, climate change, or, indeed, Covid-19 – will continue to wreak havoc on even the most conscientious of economics outlooks.

Access Real estate investment in 2023: macro outlook**, in full.**

Also: Access Salmon O (2013), Market Trends – '*Four trends shaping global retail real estate*', in full, and

Market Trends – '*The total value of global real estate*', in full.

Read Savills Investment tips and trends by region -

- **Read more EMEA tips**, ○ **Read more Asia-Pacific tips**
- **Read more North America tips**

Read Savills World cities prime residential forecasts

In earlier issues (05/20) Savills discuss the potential changes that may be seen across the different sectors. If you prefer to read a specific sector, then select the relevant sections title to go straight there and include: **Office sector**, **Logistics sector**, **Retail sector**, **Hotels sector**, **Institutional residential sector**, **Senior housing and healthcare sectors**, **End-use residential sector**, and **Conclusion**.

Back to top

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

Back to top

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, lecturers, education, and their website, the Institute offers a platform for thought leadership on a wide range of topics.

Making retirement living affordable: the tole 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.

Back to top

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 practie 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 econnomic and financial impacts of the COVID panemic, inclding 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.'

Back to top

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'

Back to top

5) CABE – Chartered Institute of Building Engineers

Latest news: Fire Safety Act and Regulations

- **Changes to Building Regulations for fire safety in specific types of buildings**
  - On 1 June 2022, the Department for Levelling Up Housing and Communities (DHLUHC) announced the outcome of its consultation on extending controls on use of combustible materials, and additional fire safety measures in higher risk buildings. These will come into force on 1 December 2022.
    - **Further information on the Changes to the Building Regulations** and
    - **More details can be found in the Amendment Document issued by DLUHC**

- **Coming into force of Schedule 1 of the Fire Safety Act relating to Fire Risk Assessments**
  - The Fire Safety Act 2021 will come into force in 2023, but ahead of this Section 1 – Premises to which the Regulatory Reform (Fire Safety) Order (FSO) applies and Section 3 – Risk-based guidance about the discharge of duties under the FSO of the Act commenced on 16 May 2022.
    - **Fire Safety Act Commencement Prioritisation Advice**
    - **Information on commencement of Section 1 and 3 of the Fire Safety Act**
    - **Fire Risk Assessment Prioritisation Tool**

Key publications from CABE

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

Also: **Access *Safer people, safer homes: Building Safety Management***

Access the Chartered Association of Building Engineers for further information. and **Access *Building Engineer* website**

6) RICS – Royal Institution of Chartered Surveyors

- RICS recognise the huge importance of property, land, construction and the built environment. Through their market surveys and research, they aim to advance the thinking of the profession and raise the profile of the industry.

Note: Latest research published by RICS is covered earlier within *Knowledge Foundations* and under **Other News** > **RICS Market Surveys**.

Back to top

As of **November 2023**, 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 intrastructure remains as area of strength,**
  - Building Safety Act Frequently Asked Questions
- **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 (11/23),
  - **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 **November 2023**, the latest CIOB Policy and **Research** include:

Economic and Social Impact

- 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

Back to top

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 transrpot 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 **November 2023**, the latest House of Commons Library, **Research publications** incl.

1. Research for Commons business,
2. 2023 Israel-Hamas conflict: UK and international response,
3. Average Earnings: Key Economic Indicators, and
4. The conlict in Ukraine.

Review House of Commons Library, Research for this week
As of **November 2023** the latest **House of Commons Research:**

Back to top

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

1. Careers guidance in schools, colleges and universities (England),
2. Support for students from Ukraine in UK higher education,
3. Support for care leavers,
4. Educational outcomes of Black pupils and students,
5. School buildings and capital funding (England),
6. Support for children and young people's mental health (England), and Suicide prevention: Policy and strategy, and
7. Lifelong Learning (Higher Education Fee Limits) Bill: Progress of the Bill.

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

1. Can my landlord prevent me from keeping a pet? (England),
2. Can private landlords refuse to let to benefit claimants and people with children?,
3. Housing Marketing: Key Economic Indicators,
4. Debate on planning considerations for renewable energy providers,
5. Leasehold high-rise flats: who pays for fire safety work? and
6. Fire safety in houses and flats, and

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

1. Debate on energy social tariffs,
2. Debate on planning considerations for renewable energy providers,
3. Rising cost of living in the UK,
4. Debate on Water, Sanitation and Hygiene and sustainable development,
5. Air quality: policies, proposals and concerns,
6. The Energy Bill and households: FAQs,
7. Energy Bill [HL] 2022-23 Committee stage report and
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 constructions 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

Back to top

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*** (**November 2023**), 'Tick tock talk: the daylight-saving debate' – Should we 'lock the clock' and stop changing the time twice a year or would that prove detrimental to industries and individuals around the world?'

Subject Terms/Keywords: Building control; Energy; Facilities management; Health and safety; Rural; and Wellbeing.

Latest articles within *Modus*:

- **Rural practice is a small community, but it's at the heart of some big issues –** The first edition of the Institution of Surveyors Transactions in 1868 has a section on Historical Notes. Among its musings is: "The maintenance of a population by arable cultivation must have been one of the first steps towards civilization."

Subject Terms/Keywords: Land and resources; Land rights; Rural; Rural economy; and Surveying Profession.

- What are the most important features of office design? – What staff want from their workplace has changed with the rise of hybrid working – *Modus* analyses the results of the global Leesman report, *The Workplace Reset.*

Back to top

Subject Terms/Keywords: Building control; Commercial property; Facilities management; Health and safety; Running your business; and Wellbeing.

- **Common recruitment mistakes and how to avoid them –** In a competitive labour market, employers must make sure they are giving candidates plenty of reasons to want to work for them.

Subject Terms/Keywords: Building surveying; Planning and development; projects and people; Quantity surveying and construction; and Running your business.

- **Leading RICS: meet the new CEO, Justin Young –** Transformation is crucial to Justin Young's plan as CEO, but he also wants to build stronger bonds with members and offer stability, strategy and a renewed sense of purpose.

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

- **Sanjay Dutt FRICS: what we can learn from dabbawalas** – "The Indian warehousing and logistics sector played a pivotal role in the country's post-pandemic economic recovery," says the CEO of TATA Realty and Infrastructure.

Subject Terms/Keywords: Commercial property; Economics; Infrastructure and services; Residential; and Sustainability.

- **Mumbai's dabbawalas: leaders in last mile logistics** – The 133-year-old lunchtime delivery system in Mumbai provides important lessons on how urban supply chains can work more efficiently and sustainably.

Subject Terms/Keywords: Commercial property; Economic; Infrastructure; Infrastructure and services; Residential; and Sustainability.

- **Concrete giants: Japan's Brutalist buildings –** The architectural styles of Brutalism and Metabolism gained popularity in post Second World War Japan, offering functionality and a way to build quickly and efficiently.

Subject Terms/Keywords: Building conservation; Cities and placemaking; Heritage and conservation; Materials and resources; and Quantity surveying and construction.

- Alan Bainbridge FRICS: transforming the BBC's estate – Making sure workplaces are future-ready, accessible and sustainable for the UK's national broadcaster is a big task that receives public and political scrutiny.

Subject terms: Building control; Commercial property; Diversity and inclusion; Ethical practice; Project management; and Sustainability.

Back to top

- **SMEs are engines of sustainable growth and employment –** RICS President Ann Gray FRICS speaks to three SME founders about the benefits of starting your own business in the built environment.

Subject Terms/Keywords: Building surveying; Planning and development; Projects and people; Quantity surveying and construction; RICS standards and guidance; and Running your business.

Also:

- **Building the future: the race to net zero –** "You can decarbonise and no de-industrialise, you can have clean growth," says former cabinet minister for energy Chris Skidmore MP, in the latest episode of the *Modus* podcast.

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, **November 2023 - Issue 505** focusing on – Levelling Up and Regeneration Bill Receives Royal Assent; Heritage Debate Speakers Announced; Heritage Heroes 2024 Launched; and '**National Trust issues key manifesto asks to protect nature and heritage for everyone'** incl. details on the NT Policy Platform.

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

Back to top

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

Institute of Workplace and Facilities Management (IWFM) *Facilitate*, - This latest **November/December 2023** edition of *Facilitate* focuses on the people and projects taking the plaudits at this year's IWFM Impact awards. Brought together they demonstrate a truly extraordinary variety of work, the ingenuity and commitment of character and spirit.

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 **[November 2023]** 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.

Back to top

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 © Henry Stewart Talks Ltd 2022

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**.

This work is licensed under a **Creative Commons Attribution 3.0 Unported License (CC BY 3.0)**.

Back to top

This latest *Open Praxis* special issue **Vol 15(3)** includes three research papers, two innovative practice paper and one book review.

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

Editorial: Introduction to *Open Praxis* **Vol 15(3)**
'Generative AI, Synthetic Contents, Open Educational Resources (OER), and Open Educational Practices (OEP): A New Front in the Openness Landscape'.

Research articles include:
1. 'Epistemic Considerations of Open Education to Re-Source Educators' Praxis Sustainably',
2. 'The Relationship between Satisfaction, Interaction, E-learning Readiness, and Academic Achievement in Online Learning' and
3. 'Why All the Hype about ChatGPT? Academics' Views of a Chat-based Conversational Learning Strategy at an Open Distance e-Learning Institution.

Innovative practice articles include:
1. 'Reviewing a 5-Year Grant-Funded Campus OER Initiative: Reflections, Successes, & Challenges',
2. 'Deigning OER with Equity: An Example of Situating Equity in a Community College Statistics Course Redesign', and
3. 'Critiquing Sustainable Openness in Technology-Based Education from the Perspective of Cost-Effectiveness and Accessibility'.

Book review(s):
1. 'Book Review of ***Handbook of Open, Distance, and Digital Education*** (HODDE)*'* - edited by Prof. Dr. Olaf Zawacki-Richter and Prof. Dr. Insung Jung, is an **open-source reference book**.

Keywords: Open learning, distance education, digital education, online learning, open and distance learning.

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

Back to top

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(3)

2023 OLC Conference Special Issue

Editorial - Introduction to the Special Issue – Select Papers Presented at the 2022 OLC Accelerate Conference and the 2023 OLC Innovate Conference.

Articles/Papers include:

1. Institutional Support for Academic Engagement in Online and Blended Learning Environments,
2. Using AI to Evaluate a Competency-Based Online Writing Course in Nursing,
3. Student Ratings and Course Modalities.

Section II

Introduction to Section II – Volume 27, Issue 3

Articles/Papers include:

1. Leveraging Digital Literacies to Support Refugee Youth and Families' Success in Online Learning: A Theoretical Perspective Using a Socioecological Approach,
2. Building Community Online: Moving toward Humanization Through Relationship-Focused Technology Use,
3. The Influence of Collaboration, Participation, and Experience on Undergraduate Learner Engagement in the Online Teaching-learning Environment.

4. Engagement in Online Learning among Thai and German Students: The Role of Classmates, Instructors, Technology and Learning Environments across Country Contexts,
5. Special Educator Course Format Preferences,
6. (Meta)Cognitive Presence for Graduate Student Teacher Training,
7. Examining the Development of K-12 Students' Cognitive Presence Over Time,
8. Technologies, Strategies, and Supports Helpful to Faculty in the e-Mentoring of Dissertations,

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)

Back to top

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

Back to top

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.

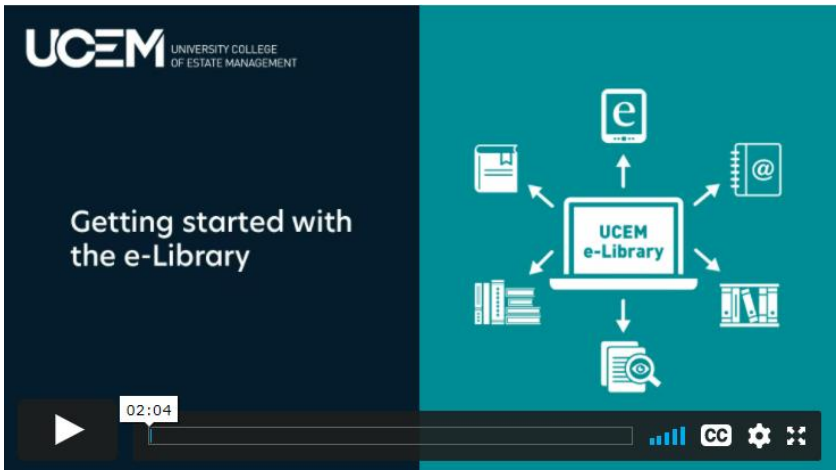
Back to top

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.



© UCEM 2023

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.

Back to top

The sections that make up the UCEM e-Library:

© UCEM 2017

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.

Back to top

Supported by: Emerald Publishing Ltd
The work of the UCEM e-Library is endorsed by Emerald Publishing Ltd

© Emerald Publishing 2021

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.

© Emerald Publishing 2021

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.

[November 2023] - 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.

© UCEM 2021

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

Back to top

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

© 2022 — Property Elite LLP

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 **[November 2023]** the **Hot Topic Highlight – UK VPGA 11 Valuation of UK Residential Property**

In this week's blog, Property Elite look at UK VPGA 11 – Valuation of UK Residential Property. This is part of the UK National Supplement, which is published in a new edition to take effect on 1 May 2024.

What has changed in the revised UK VPGA 11?

The revised UK VPGA 11 provides comprehensive guidance on UK valuations of residential property. UK VPGAs 12 and 13 have been incorporated into UK VPGA 11 in the new edition of the UK National Supplement. RICS have confirmed that UK VPGA 11 will supplement additional valuation guidance that will be published in future.

In the interim, they confirm that residential valuers will need to refer back to the UK VPGAs 11, 12 and 13 in the 2017 edition of the UK National Supplement. They also provide a list of relevant guidance currently published in the new UK VPGA 11.12. RICS confirm that valuers should also specifically refer to VPGA 2 of the Red Book Global in relation to secured lending valuations.

Also covered in this blog: **What is the role and remit of the residential valuer?, What does UK VPGA 11 say about inspection?** And **What does UK VPGA say about investigations?**

Further details and access to the Property Elite Hot Topic Highlight – UK VPGA 11 Valuation of UK Residential Property

Also –

- Estates Gazette – APC Series -

- **RICS APC Pathways.**
- **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

Back to top

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 changed 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.

Back to top

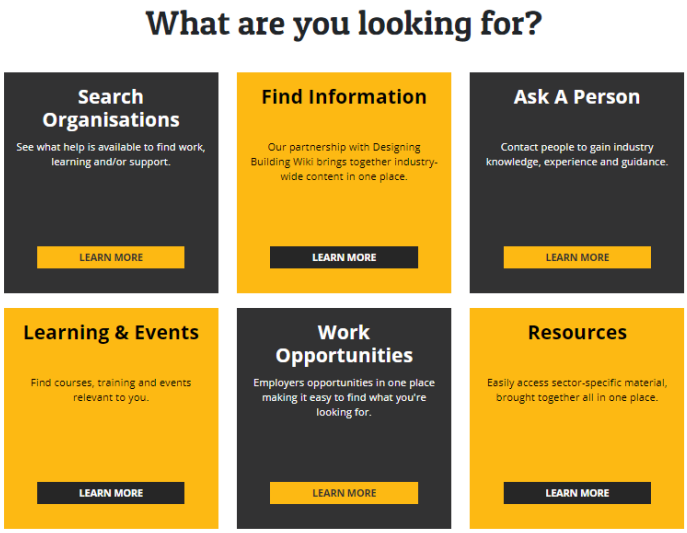
Building People

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:



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

Back to top

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.

Back to top

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

Back to top

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!

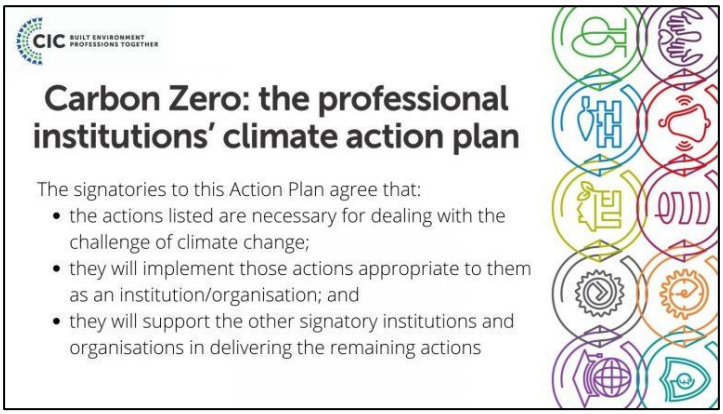
5. Invest in energy saving appliances, like an air fryer – While it's good to buy home appliances based on their energy ratings, it's also good to research alternative types of appliances you can buy. One big change you can make is switching to an air fryer for day-to-day cooking rather than using a 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:



© CIC 2021

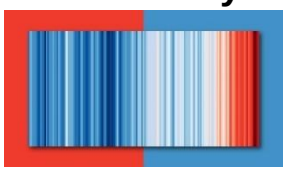
The document, entitled 'Carbon Zero: the professional institutions' climate action plan,' was released last week and coordinates the efforts of built environment institutions in meeting the UK government's 2050 net zero emissions target.

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.

Back to top

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



[Image: courtesy Ed Hawkins]

(Climate stripes as shown is 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

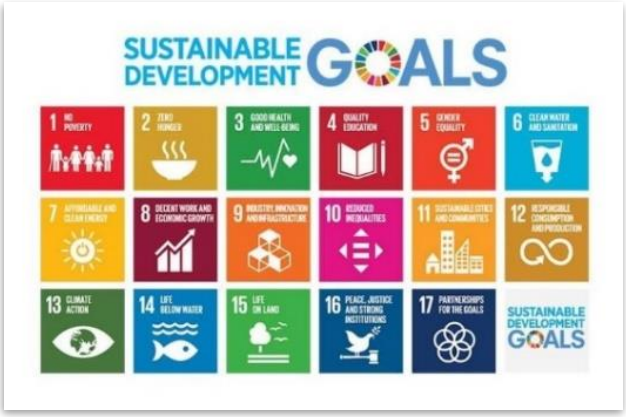
The UN Sustainable Development Agenda, adopted by world leaders in 2015, maps out a 15-year plan to fight inequality, end poverty and tackle climate change challenges.

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

Back to top

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 [November 2023]

BBC News: Huge data breach at Southend-on-Sea City Council

- Details of over 2,000 staff and councillors have been made public in a council data breach. Southend-on-Sea City Council could face six-figure fines for the mistake. The information disclosed included names, addresses and National Insurance numbers. **Keywords** include – Data Breaches**.**

Access the BBC News article, (2023) 'Huge data breach at Southend-on-Sea City Council', in full.

Back to top

ICO Latest News [**November 2023**] -
2 November 2023 – **Information Commissioner's Office issues three fines totalling £170,000 for illegal direct marketing**

- Three companies offering financial services have been fined £170,000 collectively by the Information Commissioner's Office (ICO) for illegal direct marketing under the Privacy and Electronic Communications Regulations (PECR).

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? [November 2023]
The Information Commissioner's Office (ICO) website has a 'What's new' section that is updated on a regular basis to highlight and link to any changes in their ***ICO Guide to Data Protection*** as they occur, for example: The ICO published guidance on the **National Security Provisions** in Part 3 of the DPA18 and updated the **Guide to Intelligence Services Processing** (04/21).

Back to top

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)

Back to top

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 [November 2023]

Humans of New York wades into India copyright row

- A row has broken out after the founder of popular photo blog Humans of New York criticised a similar Indian platform's take on copyright. Humans of Bombay, which follows the same format as Brandon Stanton's New York blog, started in Mumbai in 2014. It recently files a suit against People of India, which started a few years later, of copyright infringement.

Read the full BBC news item, Sebastian, M., 'Humans of New York wades into India copyright row.'

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.

Back to top

Access the GOV.UK 'Changes to copyright law from 1st January 2021', in full.

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

Copyright & Information Technologies in Education (CITE)

© CLA 2020

The CITE Forum is a place to discuss the CLA's technology and licence offerings (such as the Digital Content Store) but also an opportunity for Higher Education Institute's to network, share and disseminate relevant copyright information.

As UCEM Information Governance Manager I regularly attend the Copyright Licensing Agency (CLA) CITE Forum and presented on- '**UCEM's e-Library: Our Story So Far**', at the **CITE Winter 2021 Forum**, held in November 2021. *Source:* CLA (2021) ***UCEM e-Library: Our story so far***, a presentation given at the Winter 2021 CITE Forum [video], YouTube. Available at: www.youtube.com/watch?v=GmuENzHeGO0&feature=youtu.be [accessed 9 June 2023]. **Ref: From 58:05 until 1.28:41.**

- Copyright Licensing Agency (2019) '**CITE – 2020 Vision**', ***CITE Magazine*, Winter 2019, No. 3** [online].
- Copyright Licensing Agency (2019) '**A CITE to behold**', ***CITE Magazine*, Summer 2019, No. 2** [online].
- Copyright Licensing Agency (2018) ***CITE Magazine - A biannual magazine for the CITE Community*, Winter 2018, No. 1** [online].

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

Part of my role as involves keeping abreast of the latest developments and benchmarking the work I do against that of others. I also undertake regular Continuing Professional Development (CPD), and an element of this is attending the CITE Forum attending events and conferences provided through my professional body, CILIP – The Library and Information Association, and others.

CILIP's National Copyright Conference 2023

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

#CILIPCopy23 / #copyright

Back to top

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.

Back to top

This has included:

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

This session also touched on related issues such as:

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

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

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

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

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

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

Naomi Korn, Managing Director, Naomi Korn Associates

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

Back to top

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.

Back to top

The Challenges of Remote Working at Present

- The challenges of remote working at present and point to consider from a data privacy perspective. Provided within this article are points to consider from a data privacy perspective that include:

1. **Have a clear statement to all staff** stressing that "The protection of personal data that we hold, and use is important to us and must be always handled in a way that is compliant with data protection law and our Data Protection and Privacy policies. While we must adapt to comply with the official guidance, we will adjust out working processes to allow us to deliver our services. These are time limited instruction that will be kept under review. At the end of the period then all data that is held temporarily on personal devices as a direct result of this exceptional times, will be deleted." (Tullo 2020)
2. **Set out what use of data**, contact lists, customer documents are being allowed.
3. As part of this exceptional response to homeworking **keep a full record of where staff are working from and what equipment they are using**.
4. **State that you have assessed the best way of ensuring homeworking efficiency** and are proposing that personal devices and mobile phones can be used. That you will review this [weekly seem sensible at present] in line with experience and how staff report it is working.
5. **Reissue and emphasis your usual security arrangements –** Virus and password protection, not leaving data visible to others, having a PIN code, or not sharing their device with others in their family or household.
6. **Take care to be aware where data is being stored**, even if temporary so that the security risk is managed and assessed.
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 Office (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**.

Back to top

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 / #NASAPerservere

A to Z of useful references and web-links:

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

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

Back to top

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 28 November 2023]

American Society of Civil Engineers (ASCE) Civil Engineering database provides free access to over eighty thousand abstracts taken from ASCE publications since 1973. ASCE [online]. Further information is available at: www.asce.org [accessed 28 November 2023]

Association of Researchers in Construction Management (ARCOM) brings together all those interested in construction management research. It aims to further the advancement of knowledge in all aspects of management in construction by support education, dissemination, and research. ARCOM [online]. Further information available at: www.arcom.ac.uk [accessed 28 November 2023]

> ARCOM Abstracts database – contains open access of every ARCOM conference paper since 1997 and is now a major resource for all active researchers.
>
> ARCOM Newsletters - contains the latest news from the industry.

AJ Buildings Library (AJBL) – The AJ Buildings Library highlights thousands of exemplar projects, most from the last 20 years but including major projects back to 1900. Available at: www.ajbuildingslibrary.co.uk/ [accessed 28 November 2023] (This valuable resource is just one part of the *Architects' Journal* subscription, available via the VLE e-Library > OpenAthens Library login > Construction Information Service (CIS) and/or EBSCO Business Source Ultimate).

[Back to A to Z]

B

Barbour ABI [online]. Explore the latest Construction Market Analysis Reports, for free. Further information available at: https://barbour-abi.com/resources/reports/ [accessed 28 November 2023]

BBC Search **and** BBC Education [online]. Further information available at: www.bbc.co.uk/search and www.bbc.co.uk/news/education [accessed 28 November 2023]

BIDSTATS [online] – Free UK tenders' portal. Find UK public sector contracts and further information available at: https://bidstats.uk/ [accessed 28 November 2023]

BIM Task Group – The Building Information Modelling (BIM) Task Group support and develop the objectives of the Government Construction Strategy and the requirement to strengthen the public sector's capability in BIM implementation [online]. **N.B.** This group and programme are now part of the University of Cambridge, Centre for Digital Built Britain **(CDBB)** [online]. Further information

is available at: www.cdbb.cam.ac.uk/AboutDBB/FAQs [accessed 28 November 2023]. Please refer to question 9 – What is the Digital Built Britain Programme? specifically.

BIMForum – The BIMForum's mission is to facilitate and accelerate the adoption of building information modelling (BIM) in the AEC (Architecture, Engineering and Construction) industry. Further information is available via the BIMForum Website [online] and at: http://bimforum.org [accessed 28 November 2023]

BOMA International (Building Owners and Managers Association International) – a federation of 91 BOMA U.S. associations and seventeen international affiliates. Founded in 1907, BOMA's mission is to advance a vibrant commercial real estate industry through advocacy, influence, and knowledge. **BOMA Research and Resources** [online] and available at: www.boma.org/BOMA/Research-Resources [accessed 28 November 2023]

British and Irish Legal Information Institute (BAILLI) Case Law Search [online]. Further information available at: www.bailii.org/form/search_cases.html [accessed 28 November 2023]

British Council of Shopping Centres (BCSC) was the professional body and authoritative voice for retail-led regeneration and for the management of and investment in shopping places [online]. Note**:** BCSC has changed and is now **REVO – Retail. Property. Community.**

British 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 28 November 2023]

Building Conservation. com [online] – Information resources for conservation, restoration, and repairs. Further information is available at: www.buildingconservation.com [accessed 28 November 2023]

Building Conservation.com Articles directory by subject [online]. Available at: www.buildingconservation.com/articles/articles.htm [accessed 28 November 2023]

Building Engineer [online] – Building Engineer website covers news and insights from the following topics: Building & Fire Safety; Business & Management; Construction & Building Materials; Energy & Sustainability; Health, Safety & Wellbeing; Policy & Regulations; Refurbishment; Technology & Digital Construction. Further information is available at: www.buildingengineer.org.uk/ [accessed 28 November 2023]

Building People - a technology platform and collaborative network, which enables connections and seeks to reduce the skills shortages across the Built Environment. Building People [online]. Further information is available at: www.buildingpeople.org.uk [accessed 28 November 2023]

Building Research Establishment (BRE) [online] is an independent and impartial, research-based consultancy, testing and training organisation, offering expertise in every aspect of the built environment and associated industries. Further information available at: https://bregroup.com/about-us [accessed 28 November 2023]

> **BRE A-Z of BRE Services** (from Accreditation to Zero Carbon) [online]. Further information is available at: https://bregroup.com/a-z/ [accessed 28 November 2023]
>
> **BRE Case Studies** [online]. Further information is available at: https://bregroup.com/expertise/case-studies/ [accessed 28 November 2023]

Building Services Research and Information Association (BSRIA) [online]. BSRIA is a test, instrumentation, research, and consultancy organisation, providing specialist services in construction and building services. Available at: www.bsria.co.uk [accessed 28 November 2023]

Building talk [online]. Available at: www.buildingtalk.com [accessed 28 November 2023] *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 13 October 2023]

[Back to A to Z]

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 28 November 2023]

> **CPRE Resources** provides the latest news articles, policy guidance notes, published reports and research surrounding the following - Countryside, Farming and food, Housing and planning, Energy and Waste, and Transport. CPRE Resources [online]. Available at: www.cpre.org.uk/resources [accessed 28 November 2023]

CBRE – With more than 100,000 professionals in over 100 countries, CBRE is the global leader in commercial real estate services and investment. CBRE [online]. Available at: www.cbre.co.uk [accessed 28 November 2023]

> **CBRE Insights and Research** - CBRE sets the standard for global real estate research by providing clients with accurate and insightful market knowledge. CBRE [online]. Available at: www.cbre.co.uk/insights [accessed 28 November 2023]

Centre for Architecture and Built Environment Research (CABER) seeks to develop innovative approaches, procedures, technologies, and techniques that support the design, management, reconfiguration, maintenance and operation of buildings, their fabric, and the environments they create. Note: CABER incorporates the previous Centre for Construction and Property Research (CPRC). CABER [online] and available at: www1.uwe.ac.uk/et/research/caber.aspx [accessed 28 November 2023]

The Center for Construction Research and Training (CPWR) is dedicated to reducing occupational injuries, illnesses, and fatalities in the construction industry through research, training, and service programs. CPWR [online] and available at: www.cpwr.com [accessed 28 November 2023]

Centre for Digital Built Britain (CDBB) is a partnership between the Department of Business, Energy & Industrial Strategy, and the University of Cambridge to deliver a smart digital economy for infrastructure and construction for the future and transform the UK construction industry's approach to the way we plan, build, maintain, and use our social and economic infrastructure. CDBB [online]. Available at: www.cdbb.cam.ac.uk/AboutDBB [accessed 28 November 2023]

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

> **CSE Resources** [online] include - Reports & publications, Toolkits, Advice leaflets, Websites, *Energise* newsletter, Videos on The fundamentals, Improving your community building, Community-wide energy saving projects, Neighbourhood and low carbon planning, Renewable energy projects, and further Resources for schools and educators. Available at: www.cse.org.uk/local-energy/resources [accessed 28 November 2023]

Chartered Association of Building Engineers (CABE) is a member-focused non-profit organisation. CABE shares knowledge, raises standards, and develops professionals, enabling a professional construction sector that works to create better, safer, and more sustainable buildings that enhance people's lives. CABE [online]. Available at: https://cbuilde.com/ [accessed 28 November 2023]

Chartered Institute of Building (CIOB) [online]. The Chartered Institute of Building is the international voice of the building professional, representing an unequalled body of knowledge concerning the management of the total building process. Available at: www.ciob.org [accessed 28 November 2023]

> **CIOB Library** Incl. Library and Information Services [online]. Available at: www.ciob.org/learning/library [accessed 28 November 2023]
>
> **CIOB People** - construction's new people development resource, reaching 55,000 industry professionals. [online]. Available at: https://ciobpeople.com/ [accessed 28 November 2023]
>
> **CIOB's *Construction Management* journal** (formerly *Construction Manager)* [online]. Available at: https://constructionmanagement.co.uk/ [accessed 28 November 2023]
>
> **CIOB's *Global Construction Review* journal** [online]. Available at: www.globalconstructionreview.com/ [accessed 28 November 2023]
>
> **CIOB *BIM+*** online newsletter [online]. Available at: www.bimplus.co.uk [accessed 28 November 2023]

Chartered Institution of Building Services Engineers (CIBSE) – the prime source of expertise in the Building Services Industry. CIBSE [online]. Available at: www.cibse.org [accessed 28 November 2023]. N.B. Within the CIBSE website you can '**CIBSE - Search the Knowledge Portal**' covering themes such as BIM, Building Regulations, FM, Facades, Fire Safety, Lighting and Heating, Management, and project management, Residential, Sustainability, and more.

China Dialogue [online] – China and the world discuss the environment. Available at: www.chinadialogue.net [accessed 28 November 2023]

CIBSE Journal [online]. Available at: www.cibsejournal.com [accessed 28 November 2023].

The CIT-eA Project Creating Innovative Technology – Enhanced Assessments – a research project that explored ways to increase the number of assessments in Further and Higher Education using technology. The CIT-eA Project [online]. Available at: http://citea.digitalinsite.co.uk [accessed 28 November 2023]

Cities / buildings images database [online]. Available at: **www.washington.edu/ark2** [accessed 28 November 2023] is a collection of images of buildings and cities from around the world aimed at students, researchers, and educators.

C-Link is a procurement software company who also provide resources (incl. guides, eBooks, and other materials) created to help you make more money on your construction project. C-Link [online]. Available at: www.C-Link.com [accessed 28 November 2023]

Commercial Real Estate Services (CBRE) is the world's largest real estate services provider, with a preeminent leadership position in virtually all key business centers globally. CBRE [online]. Available at: www.cbre.co.uk [accessed 28 November 2023]

Community-Led Housing (CLH) Toolkit: a resource for local authority and housing professionals' [online]. Available at: www.communityledhomes.org.uk/community-led-housing-toolkit [accessed 26 October 2023]. This Toolkit provides a wealth of technical and non-technical information on a

broad range of issues relevant to CLH. There are five Toolboxes, covering (i) Housing (ii) Communities (iii) Legal (iv) Planning and (v) Finance.

Confederation of British Industry (CBI) is the UK's premier business lobbying organisation, providing a voice for employers at a national and international level. CBI [online]. Available at: www.cbi.org.uk [accessed 28 November 2023]

Conference on Training in Architectural Conservation (COTAC) was formed in 1959 to improve the standard of education of everyone involved in building conservation, including craftsmen, professionals, and homeowners. COTAC [online]. Available at: http://ihbconline.co.uk/cotac2 [accessed 28 November 2023]

COTAC Digital Bibliography [online]. Available at: http://cotac.global/digital_bib/ [accessed 28 November 2023]

Constructing Excellence (delivered with **bre**) is a platform for industry improvement to deliver excellence through clients, industry, and users through collaborative working. Resources include publications, tools, and newsletter. Constructing Excellence [online]. Available at: http://constructingexcellence.org.uk/ [accessed 28 November 2023]

Construction Enquirer is a news website in construction. Construction Enquirer [online]. Available at: www.constructionenquirer.com [accessed 28 November 2023]

The **Construction Index** [online] provides a wide range of information services for the UK construction industry, that include a search engine of construction companies, daily construction news, market data, email newspaper letter, and Case Law analysis and legal commentary. Further information is available at: www.theconstructionindex.co.uk [accessed 28 November 2023].

Construction Industry Council (CIC) – The representative forum for the professional bodies, research organisations and specialist business association in the construction industry. CIC [online] and available at: http://cic.org.uk [accessed 28 November 2023]

The **Construction Industry Research and Information Association** (CIRIA) [online]. Further information and resources are available at: www.ciria.org/default.aspx [accessed 28 November 2023]

Construction Industry Training Board (CITB) is the training board for the construction industry and partner in Construction Skills, the Sector Skills Council. CITB [online]. Available at: www.citb.co.uk [accessed 28 November 2023]

Construction Manager is the magazine of the Chartered Institute of Building (CIOB) [online] and available at: www.constructionmanagermagazine.com/ [accessed 28 November 2023]

Construction News [online]. Available at: www.constructionnews.co.uk [accessed 28 November 2023]

Construction Products Association (CPA) represents the UK's manufacturers and distributors of construction products and materials. Construction Products Association [online]. Further information is available at: www.constructionproducts.org.uk [accessed 28 November 2023]

Construction Project Information Committee (CPIC), responsible for providing best practice guidance on the content, form, and preparation of construction production information, and making sure this best practice is disseminated throughout the UK construction industry. CPIC [online]. Available at: www.cpic.org.uk [accessed 28 November 2023]

Construction and Property Research Centre (CPRC), University of the West of England (UWE) – the CPRC's research activity is focused around the three inter-related stages of the built

environment lifecycle, namely design, construction, and maintenance. Note: The UWE **Centre for Architecture and Built Environment Research** (CABER) now incorporates the CPRC.

COPAC* exposes rare and unique research material by bringing together the catalogues of c.90 major UK and Irish Libraries. In a single search you can discover the holdings of the UK's national libraries (including the British Library), many University libraries, and specialist libraries. Note: From August 2019 Copac was replaced by **Jisc's Library Hub Discover**.

Copyright Licensing Agency (CLA) [online]. The CLA are a licensing body as defined by the Copyright, Designs and Patents Act 1988 c.48 (as amended) ["CDPA"]. The CLA licence organisations to copy and re-use extracts from print and digital publications on behalf of copyright owners. Available at: www.cla.co.uk [accessed 28 November 2023]

Council for British Archaeology (CBA) is an independent charity bringing together members, supporters, and partners to give archaeology a voice and safeguard it for future generations. Archaeology for all [online]. Available at: http://new.archaeologyuk.org [accessed 28 November 2023]

[Back to A to Z]

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 28 November 2023]

Designing Buildings Wiki [online] and available at: www.designingbuildings.co.uk/wiki/Home [accessed 28 November 2023] is an industry-wide, cross-discipline forum for finding and sharing information.

> **Designing Buildings Wiki – Student resources** [online] and available at: www.designingbuildings.co.uk/wiki/Student_resources [accessed 28 November 2023] has a wide range of resources aimed at students of the built environment, as shown here.
>
> **Designing Buildings Wiki – Construction industry acronyms** [online] and available at: www.designingbuildings.co.uk/wiki/Construction_industry_acronyms [accessed 28 November 2023] providing a list of commonly used construction industry acronyms.

The **Design Council** [online] champions great design that improves lives and makes things better and available: www.designcouncil.org.uk [accessed 28 November 2023]. See also **Inclusive Design Hub for the Built Environment** (a project of The Design Council).

Directory of Open Access Books (DOAB) is a service which harvests details of academic and mainly peer-reviewed books published on open access. DOAB [online]. Available at: www.doabooks.org/doab [accessed 28 November 2023]

Directory of Open Access Journals (DOAJ) covers all open access scientific and scholarly journals, using a quality control system to guarantee the content. DOAJ [online]. Available at: https://doaj.org [accessed 28 November 2023]

[Back to A to Z]

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 28 November 2023]

The Economics Network [online] provides publications, events, and other resources to support university teachers of economics throughout the UK and worldwide. Available at: www.economicsnetwork.ac.uk [accessed 28 November 2023]

EngineeringUK is a not-for-profit organisation, which works in partnership with the engineering community to inspire tomorrow's engineers and increase the number and diversity of young people choosing academic and vocational pathways into engineering. EngineeringUK [online]. Available at: www.engineeringuk.com [accessed 28 November 2023]

Engineering and Physical Sciences Research Council (EPSRC) is the main UK government agency for funding research and training in engineering and the physical sciences, investing more than £800 million a year in a broad range of subjects – from mathematics to materials science, and from information technology to structural engineering. EPSRC [online]. Available at: www.epsrc.ac.uk [accessed 28 November 2023]

English Heritage cares for over four hundred historic buildings, monuments, and sites – from world-famous prehistoric sites to grand medieval castles, from Roman forts on the edges of the empire to a Cold War bunker. English Heritage [online]. Further information is available at: www.english-heritage.org.uk [accessed 28 November 2023]. Note: English Heritage has now separated into two organisations. If you are looking for information on listing, planning, grants or heritage research and advice, please visit **Historic England**.

Estates Gazette The UK's largest commercial property news team. *Estates Gazette Interactive* [online]. Available at: www.egi.co.uk [accessed 28 November 2023] incl. ***Estate Gazette*, *News from the nationals*** – Round-up of the top property stories with quick links.

European Real Estate Society (ERES) was established in 1994 to create an international real estate network between academics and professionals across Europe. ERES [online]. Further information is available at: www.eres.org [accessed 28 November 2023].

ERES Digital Library [online] and available at: www.eres.org/index.php/activities/libraryeres [accessed 28 November 2023]

[Back to A to Z]

G

Great Buildings Online [online]. Available at: www.architectureweek.com/search.html [accessed 28 November 2023] provides a database of buildings around the world and across all historic periods. You can search the database by building names, place, or architect name. It provides access to 3D models, photographic images, and architectural drawings.

Glenigan [online]. Available at: www.glenigan.com [accessed 28 November 2023] provides UK construction project sales leads, market analysis, forecasting, and company intelligence.

Global Research Gateway: CBRE's online Insights and Research – a resource for real estate research and reports. CBRE Global Research Gateway [online]. Available at: www.cbre.com/insights [accessed 28 November 2023]

Global Construction Review – An online journal from the Chartered Institute of Building (CIOB) [online]. Available at www.globalconstructionreview.com [accessed 28 November 2023]

The Green Construction Board (GCB) is a consultative forum consisting of key members of UK construction and property industry. GCB [online]. Further information is available at: https://cic.org.uk/projects/project.php?s=green-construction-board [accessed 28 November 2023]

The Guardian, Housing network – providing insight, advice, and best practice from your community. The Guardian, Housing network [online]. Further information is available at: www.guardian.co.uk/housing-network [accessed 28 November 2023]

The Guardian, Higher Education / Universities [online]. Further information is available at: www.guardian.co.uk/higher-education-network [accessed 28 November 2023]

[Back to A to Z]

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 28 November 2023]

> **HSE, Health & Safety in the construction industry** [online]. Further information is available at: www.hse.gov.uk/construction [accessed 28 November 2023]
>
> **HSE Publications** [online]. Available at: www.hse.gov.uk/pubns/index.htm [accessed 28 November 2023]

Heritage Alliance - The largest coalition of heritage interests in England, the Heritage Alliance is the umbrella body for national and major regional Heritage NGOs. Heritage Alliance [online]. Available at: www.theheritagealliance.org.uk [accessed 28 November 2023]

> ***Heritage Update*: the online edition** of the fortnightly Heritage Alliance's ***Heritage Update*** e-bulletin [online] and available at: www.theheritagealliance.org.uk/update [accessed 28 November 2023]

Heritage Help - Created by the Joint Committee of the National Amenity Societies, Heritage Help offers information and advice on matters related to the management and protection of local historic environments. Heritage Help [online]. Available at: http://heritagehelp.org.uk [accessed 28 November 2023]

Historic England is the public body that looks after England's historic environment. Historic England champion historic places, helping people understand, value and care for them. Further information is available at: www.historicengland.org.uk [accessed 28 November 2023]

Historic Environment Local Management (HELM) - provides accessible information, training, and guidance to decision makers in local authorities, regional agencies, and national organisations whose actions affect the historic environment. Note: All HELM web content on the Historic England website [online] and available at: https://historicengland.org.uk/services-skills/training-skills/helmtraining [accessed 28 November 2023].

Home Builders Federation (HBF) represents and serves its members in a range of ways that include Ensuring senior politicians and government officials are aware of housing issues and the challenges faced by our members; and working with Government officials to ensure housing policies are introduced that facilitate housing supply, in a way that is workable for the industry [online]. Available at: www.hbf.co.uk [accessed 28 November 2023]

House Building Careers (part of HBF). Here you will be able to learn about the home building industry and how it benefits you, your community, and the country as a whole [online]. Further information available at: http://housebuildingcareers.org.uk [accessed 28 November 2023]

[Back to A to Z]

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 28 November 2023]

INFABODE connects its community of users with industry information from the Real Estate sector on one customisable online platform. Infabode reduces the amount of time people spend trying to access key information from the Real Estate industry. INFA**BODE** [online]. Available at: www.infabode.com [accessed 28 November 2023]

Institution of Civil Engineers (ICE) is a registered charity that strives to promote and progress civil engineering. ICE [online]. Available at: www.ice.org.uk [accessed 28 November 2023]

> **ICE Virtual Library** [online]. Available at: www.icevirtuallibrary.com [accessed 28 November 2023] is a free database that indexes all ICE journals.

International Council for Open and Distance Education (ICDE) is the leading global membership organisation for enhancing the quality of open, distance, flexible and online education, including e-Learning. ICDE [online]. Available at: www.icde.org [accessed 28 November 2023]

Institute of Historic Building Conservation (IHBC) is the principal professional body for building conservation practitioners and historic environment specialists working in England, Northern Ireland, Scotland, and Wales, with connections to Ireland. IHBC [online]. Available at: www.ihbc.org.uk [accessed 28 November 2023]

Institute of Workplace and Facilities Management (IWFM) – Formerly the British Institute of Facilities Management, BIFM is now the IWFM. The workplace has been incorporated into their new brand so that the status of the professional can help take careers further, regardless of specialism. IWFM [online]. Further information is available at: www.iwfm.org.uk [accessed 28 November 2023]

> **IWFM Insight** – discover leading research and resources for the workplace and facilities management profession. IWFM Insight [online]. Available at: www.iwfm.org.uk/insight [accessed 28 November 2023]
>
> **IWFM News** – discover the latest news affecting the profession and gain expert insight and advice. IWFM News [online] Available at: www.iwfm.org.uk/news [accessed 28 November 2023]
>
> **IWFM Digital Magazine, *facilitate*** - Informing workplace and facilities management professionals. IWFM *facilitate* [online]. Available at: www.facilitatemagazine.com/ [accessed 28 November 2023]

ITcon – The **Journal of Information Technology in Construction** is a peer-reviewed scholarly journal on the use of IT in architecture, civil engineering, and facility management. *ITcon* [online]. Available at: www.itcon.org [accessed 28 November 2023]

[Back to A to Z]

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 28 November 2023].

JORUM Archive – After 13 years delivering and sharing content across the higher education, further education and skills sectors the Jorum service and website was retired on 30 September 2016. However, many of the open education resources (OER) that were available in Jorum, access to their Jorum Archive can be accessed via the JISC website [online]. Available at: www.jisc.ac.uk/website/legacy/jorum [accessed 28 November 2023] where you can also gain access to JISC's full digital resources offer.

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

JournalTOCs is the largest, free collection of scholarly Journal Title of Contents (TOCs) [online]. Available at: www.journaltocs.ac.uk/index.php [accessed 28 November 2023]

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

K

[Back to A to Z]

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 28 November 2023]

> **Leeds Beckett University's - Sustainability** [online]. Further Information is available at: www.leedsbeckett.ac.uk/leeds-sustainability-institute [accessed 28 November 2023]
>
> **Leeds Beckett University – The Library** [online]. Available at: http://libguides.leedsbeckett.ac.uk/home [accessed 28 November 2023]

Lexology is a comprehensive source of international legal updates, analysis, and insights. Lexology publish more than 450 articles every day from over 1,100 law firms and service providers worldwide across fifty work areas in twenty-five languages. Lexology [online]. Available at: www.lexology.com [accessed 28 November 2023]

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 28 November 2023]

> **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 28 November 2023]

[Back to A to Z]

M

Multimedia Educational Resource for Learning and Online Teaching (MERLOT). The MERLOT project began in 1997, when the California State University Center for Distributed Learning (CSU-CDL) developed and provided free access to MERLOT [online]. Available at: www.merlot.org/merlot [accessed 28 November 2023]. MERLOT is a curated collection of free and open online teaching, learning, and faculty development services contributed and used by an international education community.

[Back to A to Z]

N

Naomi Korn Associates – Copyright Resources has developed free and openly licensed copyright, licensing and data protection help resources. Naomi Korn Associates [online]. Available at: https://naomikorn.com [accessed 28 November 2023]

National Building Information Modelling (BIM) Library, the construction industry's free-to-use resource of the NBS (trading name of RIBA Enterprises Ltd) standard BIM content [online]. Available at: www.thenbs.com/our-tools/nbs-national-bim-library [accessed 28 November 2023]

National Building Specification (NBS) is an integrated global platform for everyone involved in the design, supply, and construction of the built environment. NBS [online]. Available at: www.thenbs.com [accessed 28 November 2023]

> **NBS Knowledge** [online] is available at: www.thenbs.com/knowledge [accessed 28 November 2023]
>
> **NBS Publication Index** [online] - this index provides information about key industry documents which are or have been available in The Construction Information Service (CIS), or cited in NBS Guidance. Further information is available at: www.thenbs.com/Publicationindex [accessed 28 November 2023]
>
> **NBS Digital Construction Conversations podcasts** – New to 2021, NBS are talking to inspirational industry leaders about the trends and technologies impacting the construction industry – from sustainability to regulations to change management. NBS Digital Construction Conversations [online]. Available at: www.thenbs.com/podcast [accessed 28 November 2023]

National Skills Academy for Construction **(**NSAfC) is an industry-led framework supporting clients and contractors to identify, develop and realise employment and skills solutions across construction projects. CITB, NSAfC [online]. Available at: www.citb.co.uk/national-skills-academy-for-construction [accessed 28 November 2023]. Note: It is facilitated by the Construction Industry Training Board (CITB).

The National Trust protect historic houses, gardens, mills, coastline, forests, woods, fens, beaches, farmland, moorland, islands, archaeological remains, nature reserves, villages, and pubs. The National Trust [online]. Available at: www.nationaltrust.org.uk [accessed 28 November 2023]

> **National Trust's Nature & Climate** [online]. Available at: www.nationaltrust.org.uk/our-cause/nature-climate [accessed 28 November 2023]

New Civil Engineer *(*NCE) a weekly magazine published for the Institution of Civil Engineers (ICE). NCE [online]. Available at: www.nce.co.uk [accessed 28 November 2023]

We Are Nima – nima – nima's ultimate vision is a thriving and sustainable built and natural environment transformed by exploiting purpose- driven data. nima [online]. Available at: https://wearenima.im/ [accessed 28 November 2023]

[Back to A to Z]

O

Online Learning Consortium (OLC) is devoted to advanced quality online learning by providing professional development, instruction, best practice publications and guidance to educators, online learning professionals and organisations around the world. Online Learning Consortium [online] and further information is available at: http://onlinelearningconsortium.org/ [accessed 28 November 2023]

OLC's *Online Learning* – the official journal of the Online Learning Consortium. *Online Learning* [online]. Available at: http://onlinelearningconsortium.org/read/ [accessed 28 November 2023]

Open Education Resources, Research Hub – OER Hub gathers research on the impact of open education resources (OER) on learning and teaching practices. OER Hub [online]. Further information is available at: http://oerhub.net/ **http://oerresearchhub.org/** [accessed 28 November 2023]

***Open Praxis* –** published by the International Council for Open and Distance Education – ICDE, *Open Praxis* is a peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education. *Open Praxis* [online]. Available at: https://openpraxis.org/ [accessed 28 November 2023]

Open University (OU) UK [online] and available at: www.open.ac.uk [accessed 28 November 2023]

Open University (OU) UK, Institute of Education Technology [online] and available at: www.open.ac.uk/iet/main [accessed 28 November 2023]

Organisation for Economic Cooperation and Development (OECD) iLibrary is the online library of the OECD, featuring its books, papers and statistics and is the gateway to OECD's analysis and data. Note: It replaced SourceOECD. OECD iLibrary [online]. Available at: www.oecd-ilibrary.org [accessed 28 November 2023]

[Back to A to Z]

P

Parliament.uk, Research briefings produced by the House of Commons Library, the House of Lords Library and the Parliamentary Office of Science and Technology (POST). Parliament, Parliamentary business, Publications and records, Research briefings. Parliament.UK [online]. Further information is available at: http://researchbriefings.parliament.uk [accessed 28 November 2023]

Planning, BIM & Construction Today – The PBC Today website has compelling and informative features, news and products for a diverse audience serving a wide construction sector. PBC Today [online]. Available at: www.pbctoday.co.uk/news [accessed 28 November 2023]

Planning Advisory Service (PAS) provide consultancy and peer support, training sessions and online resources to help local authorities understand and respond to planning reform. PAS [online]. Available at: www.local.gov.uk/pas [accessed 28 November 2023].

Planning Officers Society (POS) is the voice for public sector planning practitioners, pursuing good and effective planning practice within local government [online]. Available at: www.planningofficers.org.uk [accessed 28 November 2023]

The Planning Portal is the UK Government's online planning and building regulations resource for England and Wales [online]. Available at: www.planningportal.co.uk [accessed 28 November 2023]

The Prince's Foundation was created by the merging of The Prince's Foundation for Building Community, The Prince's Regeneration Trust, The Great Steward of Scotland's Dumfries House Trust and The Prince's School of Traditional Arts in 2018. This combined force enables the charity to achieve HRH's goal of creating harmonious communities, through three core tiers. The Prince's Foundation [online]. Available at: https://princes-foundation.org [accessed 28 November 2023]

Property People's Network (PPN) is open to all interested in land and property and provides a forum to network through a range of social activities and visits [online]. Available at: www.ucem.ac.uk/product/corporate-ppn-membership/ [accessed 28 November 2023]

Property Week – Commercial property news. *Property Week* [online]. Available at: www.propertyweek.com [accessed 28 November 2023]

[Back to A to Z]

R

***Regeneration and Renewal* – Placemaking Resource incorporating *Regeneration & Renewal* magazine** [online]. Available at: www.placemakingresource.com [accessed 28 November 2023]

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 28 November 2023]

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 28 November 2023]

The Royal Institute of British Architects (RIBA) is a global professional membership body driving excellence in architecture [online]. Further information is available at: www.architecture.com [accessed 28 November 2023]

> **RIBA Library** – Visit the RIBA Library [online]. Available at: www.architecture.com/contact-and-visit/riba-library [accessed 28 November 2023]
>
> **RIBA Home > Knowledge and resources > Resources > RIBA Plan of Work** [online]. Further information is available at: www.architecture.com/knowledge-and-resources/resources-landing-page/riba-plan-of-work [accessed 28 November 2023]

Royal Institution of Chartered Surveyors (RICS) is an independent body committed to setting and upholding the highest standards of excellence and integrity in land, property, and construction. RICS [online]. Available at: www.rics.org [accessed 28 November 2023]

> **RICS > News & Insights** [online]. Available at: www.rics.org/news-insights [accessed 28 November 2023]

RICS > Upholding Professional Standards [online]. Available at: https://www.rics.org/profession-standards [accessed 28 November 2023]

RICS Publications (*Modus* and journals) - RICS publishes a range of journals that are **free** to view online. Available at: www.rics.org/news-insights/modus-and-journals [accessed 28 November 2023]

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 28 November 2023]

Royal Town and Planning Institute (RTPI) is the UK's leading planning body for spatial, sustainable, and inclusive planning and is the largest planning institute in Europe with over 23,000 members. In 2014 they celebrate their Centenary. RTPI [online]. Available at: www.rtpi.org.uk [accessed 28 November 2023]

[Back to A to Z]

S

Savills Research – Savills Research, Insight & Opinion provides advice and analysis to clients across the UK, with specialists in commercial, residential, and rural property research [online] and available at: www.savills.co.uk/insight-and-opinion/research.aspx [accessed 28 November 2023]

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 28 November 2023]

Specification Online – the free to use news and online products resource for specifiers working across the architectural and building sector [online] and available at: http://specificationonline.co.uk [accessed 28 November 2023]

Supply Chain Sustainability School represents a common approach to developing sustainability competence in the supply chain. It is a free resource available to any supplier and is part of their continued commitment to lead the industry into a brighter, more sustainable future. Supply Chain Sustainability School [online]. Further information is available at: www.supplychainschool.co.uk/uk/default-home-main.aspx [accessed 28 November 2023]

[Back to A to Z]

T

The Telegraph – Property and construction industry - The latest news, analysis and share prices on Britain's biggest construction and property companies. The Telegraph, Property and Construction Industry [online]. Available at: www.telegraph.co.uk/property-and-construction-industry [accessed 28 November 2023]

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 28 November 2023]

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 28 November 2023]

[Back to A to Z]

U

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

UK BIM 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 28 November 2023]

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 28 November 2023]

University College of Estate Management (UCEM) is the leading provider of supported distance learning for real estate and construction professionals. UCEM [online]. Available at: www.ucem.ac.uk [accessed 28 November 2023]

> **UCEM e-Library** is a comprehensive and valuable online resource, supplementing teaching and learning materials and enabling students to access a wealth of subject-specific and credible information to support them throughout their studies. UCEM e-Library [online]. Available at: www.ucem.ac.uk/e-library [accessed 28 November 2023]
>
> **UCEM Research repository** – a digital online archive which will allow free access to UCEM-produced outputs, including but not limited to research publications, podcasts etc. UCEM Research repository [online]. Available at: https://ucem.repository.guildhe.ac.uk/ [accessed 28 November 2023]

University of the West of England (UWE), Centre for Architecture and Built Environment Research (CABER) seeks to develop innovative approaches, procedures, technologies, and techniques that support the design, management, reconfiguration, maintenance and operation of buildings, their fabric, and the environments they create. Note: CABER incorporates the previous Centre for Construction and Property Research (CPRC). CABER [online]. Available at: www1.uwe.ac.uk/et/research/caber.aspx [accessed 28 November 2023]

> **UWE Educational Resources for the Built Environment** (ERBE) produces unique and highly respected educational resources for academic and professional use and incorporates the **Video Project** and the **Construction Website.** Further information can be found on the ERBE website [online] and available at: www.uwe.ac.uk/about/colleges-and-schools/arts-technology-and-environment/architecture-and-built-environment/erbe [accessed 28 November 2023]
>
> - **UWE Construction and conservation films**
> - **UWE Construction website**
>
> **UWE, Library, Search for things: A-Z** [online]. Available at: www1.uwe.ac.uk/library/searchforthingsa-z.aspx [accessed 28 November 2023]
>
> **UWE, Research publications and reports** – Providing immediate world-wide open access to all UWE's research output. Research at UWE Bristol [online]. Available at: www1.uwe.ac.uk/research.aspx [accessed 28 November 2023]

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**.

[Back to A to Z]

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 28 November 2023]

Z

Zotero – Your personal research assistant. Zotero is a free, easy-to-use tool to help you organise, annotate, cite, and share research. Zotero [online]. Available at: www.zotero.org/ [accessed 28 November 2023]

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

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

Disclaimer:

Knowledge Foundations **(formerly the library e-bulletin) is intended to highlight news items and provide basic background information only. UCEM cannot accept responsibility for the content of external websites. Please view and refer to UCEM's Terms of use.**

Please note: support for Internet Explorer is being removed by Microsoft and a number of platforms will no longer work on it, therefore you may need to use a **PC** with Google **Chrome**, Mozilla **Firefox**, Microsoft **Edge,** or **other browsers.**

University College of Estate Management (UCEM), Horizons, 60 Queen's Road, RG1 4BS, UK – **UK (Free):** 0800 019 9697, **International: +44 (0)118 921 4696, Email:** library@ucem.ac.uk

UCEM Social media: Facebook, Twitter, LinkedIn, YouTube

© Roper L (2023) *Knowledge Foundations* [online] Reading: UCEM. Available at: UCEM Website > Supported Online Learning > e-Library

This work is licensed under a **Creative Commons Attribution-ShareAlike 4.0 International License**.