Welcome to UCEM’s monthly e-bulletin for professionals working and aspiring to work in the Property & Construction industries.

UCEM aims to disseminate information, promote current awareness and share good practice, to assist in the continual professional development of all those working and aspiring to work within the Property & Construction industries.

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

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What the Queen’s Speech means for construction

Queen’s Speech: Government set out their legislative agenda

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Top 10 tips for Higher Education to engage better with industry – Constructing Excellence (delivered with BRE)

Mind matters: Protect the wellbeing of your workforce by raising awareness of mental health

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Countrieside upgrades outlook as profits and revenues soar

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Digital Learning Compass: Distance Education Enrolment Report 2017

Home Builders Federation (HBF) Reports and Housing Calculator

Access to the Joseph Rowntree Foundation's latest research reports and comments relating to policy and practice

New research centre to inform UK housing policy - Joseph Rowntree Foundation (JRF), the Economics and Social Research Council and the Arts and Humanities Research Council announce the launch of the new UK Collaborative Centre for Housing Evidence (CaCHE)
Housing policy needs to be based on evidence, not politicians’ whims

UK Property Research – Latest research from Savills UK incl.
- Residential research - Market in minutes: Central Scotland Residential Property Market – Summer 2017
- Commercial research – Spotlight: Scottish Office Market - Spring 2017
- Rural Research – Market in minutes Farmland Q1 2017
- Brexit Research – dedicated pages to the implications for different sections of the UK property market of the European Union (EU) referendum result.

Access to the House of Commons Library, Research briefings that impact on our industries incl.
- The Construction Industry: statistics and policy, and
- Latest research briefing papers from the House of Commons Library

CIOB (Chartered Institute of Building) portal on government policy
- CIOB Policy latest
- Press release: CIOB announces Commission of Past Presidents to investigate build quality
- CIOB Manifesto – Building the Case for Construction
- Press release: CIOB and Stronger Together launch toolkit to help construction industry tackle modern slavery

Latest information on Apprenticeships incl.
- Implementation is key to making the apprenticeship levy less about cost and more about gain, says Chief Operating Officer at The Higher Education Academy (HEA)
- Apprenticeship levy: making the most of it
- Need to know: Apprenticeship levy FAQ
- UCEM Trailblazer Apprenticeship programme for the surveying sector
- UCEM Accreditation and recognition

Access the ‘Designing Buildings Wiki’ – the construction industry knowledge base incl. Featured articles, and news.
- Further information on ‘Designing Buildings Wiki’
- BRE, Briefing Paper – Green guide to Specification, Certified Environmental Profiles and BREEAM
- Designing Buildings Wiki – to celebrate reaching 5,000 articles, have a look at the most popular articles in each of the 32 subject areas covered.

The Construction Information Service - CIS Briefing June 2017 Edition –
- June’s CIS Briefing (06/2017 Edition) – Exposure to Respirable Crystalline Silica (RCS) dust is one of the most common risks found on the construction site, especially for those working with products like brick and concrete. Here, in this CIS Briefing they discuss the health risks associated with RCS exposure and what can be done to mitigate them,
as well as the latest current awareness, industry news, publications news and further reading that can be access via The Construction Information Service.

The Smith Institute - a leading independent ‘think tank’ which promotes progressive policies for a fairer society.
- Information on The Smith Institute (SI).

Gain access to the latest SI research reports incl.
- Devo work – trade unions, metro mayors and combined authorities,
- Halfway house: the opportunities and limits of devo-housing in England,
- #notjustforboys / women in construction, and
- Towards a suburban renaissance: an agenda for our city suburbs.
The National Trust (NT)
- National Trust - Big Issues (incl. ‘Transport & Tourism’ and ‘Land-use & planning’) and their views
- Why the National Trust care about planning
- NT – “Our Planning Principles”,
- NT – “How we engage in planning: our role as a developer”,
- Planning at a national level, and
- Planning at a local level.

Upcoming Revo Research: Revo - Property. Community. (formerly the British Council of Shopping Centres)

Foster + Partners Projects - Further information available and access to the following:
- Image gallery,
- Sketches and drawings,
- Construction,
- Facts & Figures, and
- Project downloads.

Access the latest information on Building Information Modelling (BIM)
- What is Building Information Modelling?
- Gain access to theNBS.com website
- NBS TV – the online video resource servicing built environment professionals

The National BIM (Building Information Modelling) Library - Latest information freely available to access and download incl.
- The NBS BIM Toolkit,
- Free access to the ‘NBS National Building Information Modelling (BIM) Report 2016’, and ‘NBS International BIM Report 2016’ in full, and
- Blogging about BIM, Construction and NBS.

Latest news on BIM – Bringing BIM back to reality

Latest library resources incl. book titles, journal articles and research
Take a look at Taylor and Francis Online, FREE planning and urban design series e-books and blog
Read a free collection of research in Higher Education – from Wiley Education
Read the most talked about articles in Education!

RICS Library services and e-Resources, and

UCEM Library services and e-Resources incl. Emerald Insight – access provided to the entire ‘Property Management and the Built Environment’ collection

…and finally

Guardian University Awards 2017: the winners – The 2017 awards recognised universities for pioneering work transforming the lives of students and communities

Property and Construction Statistics

Latest RICS Economic Research / Market Surveys incl.
- Global Commercial Property Monitor (2017)
- UK Residential Market Survey (2017)
Barbour API’s ‘Economic and Construction Market Review’ – Report

Latest Statistics and updates from the Office for National Statistics (ONS) incl.

- **ONS Release calendar**
- **Construction Industry update**
- Construction Industry highlights incl. *Construction Output in Great Britain: April 2017 and new orders Jan to Mar 2017*
- **Datasets related to the Construction Industry**

Glenigan *(provider of UK construction project sales leads, market analysis, forecasting, and company intelligence)* - Construction Market Analysis

Health and Safety Executive (HSE) Statistics – Construction industry

GOV.UK *(incl. House of Commons Library, Briefing Papers)* – Construction Statistics

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**e-Journal review**

- RICS *Modus* Digital Magazine – June 2017: The Earth issue
- Latest issue of *Contractors World* (Vol 6, No 2) incl. Cover Story – On the road to recovery in Yorkshire, and Steel or Timber – How will the housing market react?
- British Institute of Facilities Management (BIFM) Digital Magazine – *FM World* June 2017: the latest issue
- The Heritage Alliance’s latest *’Heritage Update’ e-Bulletin* (June 2017) – The e-Bulletin provides current awareness and industry news over a number of built environment-related fields incl. Heritage Alliance welcomes Ministers following General Election; Heritage Alliance and British Council webinar on cultural heritage post Brexit; Heritage 2020: Apprenticeship Reform workshop; Museums and galleries monthly visits; Study on creative value chains published; and Historic Environment changes in Wales come into force.
- *Open Praxis* (published by the International Council for Open and Distance Education – ICDE) is a peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education.
- Online Learning Consortium (OLC) *Online Learning Journal* – Latest issue published. NOTE: The MERLOT community has joined forces with the OLC (formerly Sloan-C) to expand scholarly research in the field of online education, with a merger of the Journal *Online Learning* (formerly JALN) and the *Journal of Online Learning and Teaching* (JOLT) that was previously reviewed within this e-Bulletin.

The **Open Education Research Hub** (OER Hub) research the impact of open educational resources (OER) in teaching and learning practices.

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

UCEM Students and Staff have full access to the Current and Archive copies of the following key academic journals:

- *Construction Management and Economics*, Taylor and Francis online,
- *Building Research and Information*, Taylor and Francis online, and
- *Corporate Real Estate*, Henry Stewart Publications (available via IngentaConnect online)
e-Book review

(Note: Books are also reviewed within the e-Journals listed above)

- The Battle for Open: How openness won and why it doesn’t feel like victory
- The new landscape of mobile learning: Redesigning education in an app-based world
- Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education
- Studying at a Distance
- Rethinking Pedagogy for a Digital Age, 2nd edition
- ADDING SOME TEC-VARIETY: 100+ Activities for Motivating and Retaining Learners Online

The Directory of Open Access Books (DOAB)

Latest Published Books and Journal Titles

© Guidance

The Copyright Licensing Agency Ltd (CLA)

Copyright Licensing Agency - Title search tool

Further guidance on Copyright and Digital Copyright

5 Ways to find images for your website

Know your copyrights from wrongs (within Construction and Development Projects)

Useful online resources

Incl. Open Educational Resources (OERs)

1. Health and Safety Executive (HSE) - Construction related information and health and safety guidance available
2. REVO – Retail. Property. Community (formerly the British Council of Shopping Centres (BCSC)). Access to further online resources incl. Research and Education
3. The National BIM Library
4. Sustainability in Facilities Management (FM) – A useful online tool and resource pool
5. 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.

Explore RICS is a ‘keyword’ section of the RICS website and provides direct links through to information relating to the following topic areas/keywords incl. • Environment, • Geomatics, • Minerals & waste,
RICS Library Online catalogue & Glossary of terms

6. Chartered Institute of Building (CIOB) Archive incl. research on Innovation in construction & Sustainability

7. Inclusive Design Hub for the Built Environment

8. Building Research Establishment (BRE)

9. Global Research Gateway: CBRE’s online resource for Real Estate Research

10. COPAC* - 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. N.B. COPAC has loaded the catalogue of the Institution of Civil Engineers (ICE) Library onto COPAC.

UCEM e-Library portrait incl. enquiry service

Student career service

GoConstruct.org – Careers website

A career in construction gives you the chance to be part of something BIG! goconstruct.org & #ElizabethLine

Access to:

• RICS Careers guide – Schools: Where will the world of surveying take you? [Updated for 2017]
• Surveying 2017, RICS Surveying careers guide - Universities: Become a leading professional in land, property, construction and infrastructure

UCEM’s Sustainability Hub

Useful web-links
University College of Estate Management (UCEM) celebrates its second graduation ceremony

University College of Estate Management (UCEM) is delighted to celebrate its second graduation ceremony, following receipt of Taught Degree Awarding Powers in 2013. With more than 200 students competing their studies in the recent cohort, the UCEM senior leadership and academic teams are looking forward to welcoming graduands and their families to this special occasion, hosted at Reading Town Hall. Programmes including Bachelor’s and Master’s in Built Environment professional disciplines including Quantity Surveying, Building Surveying, Real Estate, Construction Management and our MBA in Real Estate and Construction will be awarded.

Award of the Chapman Adkin prize has been made to two graduands, Darren Bennett and Willie Aherne. The Chapman Adkin award has been made available to UCEM by two of its former academic staff and was introduced to recognise the performance of those who have shown special endeavour in undertaking a UCEM course.

Ashley Wheaton, Principal at UCEM, commented, “I offer my sincerest congratulations to all our graduands on successfully graduating from your UCEM programme of study. I am immensely proud that you are joining our growing community of UCEM Alumni, now some 150,000 strong.”

He added, “The need for highly-qualified, vocational graduates in the Built Environment disciplines has never been more apparent or necessary. I cannot overemphasize the important part in which our graduates now play in resolving the emerging challenges within the Built Environment.”

Jane Fawkes, Vice Principal at UCEM, said “I’d like to offer my personal congratulations to all those graduates of UCEM who are receiving their awards today. It is a special day where you can celebrate with your family and friends, in recognition of the hard work, discipline and commitment you have demonstrated to ensure successful completion of your studies, which many of you will have completed alongside or part-time employment. UCEM is very proud of your success.”

About UCEM

University College of Estate Management (UCEM) is a leading provider of supported online learning for the Built Environment; with over 95 years’ experience in providing the highest quality learning opportunities for the industry. At any one time, it has over 3,000 students from approximately 100 counties benefiting from its degrees taught by tutors with extensive industry experience.

UCEM offers many construction and property-related programmes at undergraduate and postgraduate level, as well as providing professional development and tailor-made corporate training courses.


For more information please visit,
UCEM website @ www.ucem.ac.uk [accessed 29 June 2017]

& why not follow us on our newly updated Social Media sites also incl.
https://twitter.com/StudyUCEM [accessed 26 June 2017],
https://www.facebook.com/StudyUCEM [accessed 26 June 2017],
UCEM receives Provisional TEF rating – 22 June 2017

University College of Estate Management (UCEM) has been awarded a Provisional rating under the second Teaching Excellence Framework (TEF) results, announced on 22nd June 2017. The Provisional rating means than UCEM meets rigorous national quality requirements for UK higher education, and is taking part in the TEF, but does not yet have sufficient data to be fully assessed.

The Teaching Excellence Framework (TEF) was introduced by the Government to build evidence about the performance of the UK’s world-class higher education sector, complementing the existing Research Excellence Framework with an analysis of teaching and learning outcomes. Universities, colleges and alternative providers of higher education voluntarily took part in the TEF. Each provider was rated Gold, Silver or Bronze, or received a Provisional award where there was not enough data for a full assessment.

The results of the Teaching Excellence Framework provide a new picture of excellence in teaching and learning in UK higher education. The results and the underlying evidence will help students thinking about which university or college to apply to for autumn 2018, and encourage teaching and learning excellence across the UK.

The TEF awards were decided by an independent panel of experts including academics, students and employer representatives. Drawing on national data, and evidence submitted by each university or college, the TEF measures excellence in three areas: teaching quality, the learning environment and the educational and professional outcomes achieved by students.

Professor Chris Husbands, Chair of the TEF assessment panel and Vice-Chancellor of Sheffield Hallam University, said:

“"The Teaching Excellence Framework results offer – for the first time – an overview of teaching excellence across the entire UK higher education sector. It has been a privilege to chair this ambitious and ground-breaking assessment.

“Alongside the headline results, we are publishing all the data and submissions, and statements of the assessors’ findings. Taken together, this is a set of material on teaching excellence which goes further than has been possible for any other university system in the world.”

Janes Fawkes, Deputy CEO and Vice-Principal, Strategy and Business Management of UCEM, commented:

“Students invest significant amounts of time and money in their higher education. They rightly expect a high-quality learning experience and outcomes that reflect their potential. The UK already has a high bar for quality and standards, which all universities and colleges must meet.

“The TEF measures the things that students themselves say they care about: high-quality, engaged teaching and a supportive, stimulating learning environment which equips them with the knowledge and skills they need to achieve their potential, and then to progress to a good job or further study. UCEM is committed to providing excellence through the provision of flexible, vocational education, supported by subject experts and a range of professional services, including a dedicated Student Advice Team and a Careers Service.”

The TEF results and the evidence used in the assessment can be found at


The TEF awards will also be published on Unistats and the UCAS website, alongside other information, to help inform prospective students’

UCEM wins prestigious Green Apple Gold Award for its sustainable Horizons office refurbishment – 20 June 2017

The refurbishment of the UCEM office ‘Horizons’, already recognised as ‘Excellent’ on the BREEAM rating scale (the world’s leading building sustainability assessment method) has now been further recognised through a Green Apple Gold Awards for its environmental and social benefits, innovation, economic and environmental impact as well as UCEM’s commitment to educating others about the project approach.

Run by The Green Organisation, the Green Apple Awards are a key part of the annual international campaign to recognise, reward and promote environmental best practice around the world. Launched in 1994, the awards have become well established as one of the most popular environmental campaigns and recognition schemes, both in the UK and internationally.

Ashley Wheaton, Principal at UCEM, said, “It’s fantastic to win the Green Apple Gold Award and to be recognised by The Green Organisation for the work undertaken as part of our move to Horizons. Despite the challenges associated with moving into an existing 1980s building, we achieved a highly sustainable outcome to the refurbishment project – with help from our partners at Overbury, Hilson Moran and GVA. We are very proud of the significant efforts we have made in regards to upholding our commitment to sustainability.”

He added, “We’ve created an amazing environment for our staff, supporting their health and wellbeing. As a University dedicated to vocational education within the Built Environment we look forward to a long and happy future at Horizons.”

UCEM has produced an interactive case study about the project, available here via its Online Academy.

For more news and updates, visit UCEM on Twitter, Facebook & LinkedIn. Links provided above.

The announcement further strengthens UCEM’s leading position in the provision of apprenticeship programmes for the Built Environment.

UCEM taking part in NUS Responsible Futures – 17 May 2017

We are pleased to be joining 23 other higher education institutions in The National Union of Students Responsible Futures initiative. Out of the 24 higher and further education providers involved we are the only alternative provider.

Responsible Futures works with institutions to embed providers involved we are the only alternative provider. Responsible Futures works with institutions to embed sustainability into the curriculum of every students in education today. It can help to:

- Embed sustainability into students’ learning experience
- Prepare students for the emerging low-carbon economy and provide students with skills for the 21st century
- Strengthen the relationship between students and UCEM
UCEM will achieve recognition by working through a bank of criteria set, UCEM and students work in partnership to earn an accreditation mark which demonstrates real action on education for sustainable development. It’s a true commitment to helping every graduate leave their time in education as part of the solution to our sustainability challenges, rather than as part of the problem.

Rob Young, VP Society and Citizenship at NUS said “We’re thrilled to have UCEM joining our cohort of 24 partnerships in Responsible Futures. It demonstrates UCEM’s commitment to embedding sustainability and social responsibility across the curriculum and ensuring UCEM students are ready to tackle the world’s greatest challenges. We look forward to working collaboratively with the institution and UCEM students to enhance students’ knowledge, skills, and attributes for sustainability.”

Aled Williams, Dean, Research Innovation & Partnership at UCEM said “We are aiming to achieve a Responsible Future Accreditation mark, validating out commitment and efforts to link sustainability knowledge, skills and understanding with application in practice. It is clear that graduates with demonstrable responsible future skills will be well placed in the race for good jobs, establishing a career or promotion. Hence, the more UCEM students are able to think about sustainability within their own personal context the more they may benefit.”

Our Sustainability Vision

University College of Estate Management (UCEM) strives for excellence in economic, environmental and social responsibility. A key strategic aim is ‘to develop and implement genuine sustainability credentials.’

Mindful of the impacts our academic and associated activities bear on the environment, UCEM fully accepts its responsibilities to the natural environment and the global society. We are committed to driving forward the sustainability agenda and will play a positive and transformative role that will contribute to securing an economically, politically, environmentally and socially sustainable future.

Realising our sustainability potential goes beyond addressing our day to day operations, to recognizing our positive to influence and educate industry professional who design, develop and manage the Built Environment.

UCEM is committed to:

- Ensuring our students are conversant in best practice to nurture sustainable built environments
- Making sustainability a central focus for UCEM at organizational, departmental and individual levels through driving forward long-term and effective behavioural change
- Establishing UCEM as a leader in the sustainability agenda through actively influencing industry and conducting research


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University College of Estate Management features in ‘Masterminds of Construction’ in association with ITN productions and the CIOB

We are delighted to announce and share with you the news that UCEM features in ‘Masterminds of Construction’. A programme created in partnership with ITN Productions and Chartered Institute of Building (CIOB).

‘Masterminds of Construction’ has been created to promote the role of the construction industry and to address the challenges it faces. As an organisation playing a leading role in tackling some of these challenges, UCEM was invited to contribute.

The construction industry is currently facing a large skills and diversity deficit with numerous initiatives in place to try and widen both participation and accessibility. With the role of apprenticeships set to change in April 2017, organisations will soon be in a stronger positive to fund their future workshop. The additional investment in apprenticeships will offer a way of closing the skills gap, offering more people the accessibility to higher education. At UCEM, our range of online programmes enables apprentices to gain a professionally recognised
qualification whilst gaining experience in the working world; we’re proud to be able to support students in the next step of their career.

Featuring our own Ashley Wheaton and Lynne Downey, alongside Arup and some of our talented students working at RG Carter, the programme brings to life the exciting and diverse range of careers available within the Construction industry.

Watch the clip here and let us know what you think – join the conversation online with #CIOBMasterminds or find us on our Twitter, Facebook and LinkedIn Pages links provided below.

e opportunities to apply learning and to engage creatively in the subject matter. Assessment is through computer marked assignments and portfolios of evidence.

Level 6 Chartered Surveyor apprentices complete one of the following UCEM degrees as part of their apprenticeship: BSc (Hons) Building Surveying, BSc (Hons) Quantity Surveying or BSc (Hons) Real Estate Management – all of which are accredited by The Royal Institution of Chartered Surveyors (RICS). The four-year apprenticeship includes the RICS Assessment of Professional Competence (APC), which enables apprentices who successfully complete their apprenticeship to achieve chartered membership of RICS – enabling them to use the MRICS designation.


See also:
CIOB – Chartered Institute of Building website [online]. Available at http://www.ciob.org/masterminds-construction [accessed 29 June 2017]

N.B. Please refer to additional information provided later within this e-Bulletin.

UCEM website @ www.ucem.ac.uk

& why not follow us on our newly updated Social Media sites also incl.

https://twitter.com/StudyUCEM [accessed 29 June 2017],

https://www.facebook.com/StudyUCEM [accessed 29 June 2017],


https://www.youtube.com/user/cembuildingfutures/videos [accessed 29 June 2017].

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Conservatives set out housing pledges

The Conservative Party has set out a pledge in its election manifesto to build 500,000 homes between 2020 and 2022, following on from the current target to deliver a million homes by 2020. It has also committed to helping councils to build homes, with the option being offered to councils that will build “high quality, sustainable and integrated” communities. The Conservative manifesto also sets out plans to produce ‘fixed term’ social homes, which would be sold after up to 15 years, with automatic right to buy going to tenants. The intention is that proceeds from sales would go into building further homes.

Surrey Heath Borough Council has chosen Holder Mathias Architects to design a residential-led scheme to help regenerate Camberley’s town centre. The planned redevelopment of Ashwood House and Pembroke House, which is being led by the council’s development partner Berkeley Homes, is expected to provide 141 homes as well as retail space. It is planned that Ashwood House will be refurbished and converted to 116 homes, while Pembroke House will be replaced with a four-storey building containing 25 affordable homes plus ground floor retail space.

The government’s Homes and Communities Agency has bought a former industrial site in Halesowen with a view to bringing it forward for around 70 homes. The 3-hectare site in Cradley Heath, in the west Midlands, formerly housed commercial premises, which have been demolished. Property consultant Bruton Knowles acted on behalf of the site’s owner.

Affordable housing providers AmicusHorizon and Viridian have launched their merged organisation under the new name of Optivo. The amalgamated organisation plans to have capacity to build 1,500 homes a year from 2021 across London, the Midlands and south east England. It is raising £1.5 billion in new finance to support its growth programme.

Councils across Britain are warning of a need for affordable homes, according to a new report. The report, which is based on a survey of 166 local authorities, states that 98 per cent of councils surveyed said their need for affordable homes is either ‘severe’ or ‘moderate’. Just over two thirds of councils surveyed said they had or were thinking about setting up a housing company alone or in partnership. The report, Building homes, creating communities: Ensuring councils provide innovative solutions to meeting housing need, is published by local authority body the Association for Public Service Excellence (APSE) and written and researched by the Town and Country Planning Association (TCPA). Note: Please see further information below.

planning system – have reduced the ability of councils to secure genuinely affordable homes available for social rent.

The exploring a range of issues faced by councils, this study has identified how local authorities are already taking a more active role in housing delivery through entrepreneurial approaches, such as setting up local housing companies and innovative approaches to partnership working. Over two thirds (69%) of councils surveyed said that they already had or were thinking about setting up a local authority housing company either on their own or in partnership.

The report has been released to coincide with the upcoming election and makes 15 recommendations to the incoming government, including a call for investment in building new homes available for social rent to house Britain’s ‘essential’ low-paid workers.

The full report is available to download for free via the following link


Advice: Using markets to regenerate town centres

- Street and covered markets can provide the basis for major town and city centre regeneration projects but they must fit into the surrounding offer, as the author of this article finds out.

Street and covered markets are a highly flexible form of retailing that can fit on most sites within town centres. Peter Bishop, director at architect and master planner Allies and Morrison Urban Practitioners, points out that it’s important to ensure that they sit comfortably with shops and other activities around them.

Councils that move their markets out of town or city centres to promote a major new redevelopment are overlooking an important facility that brings life and dynamism, says Cathy Parker, director of the Institute of Place Management at Manchester Metropolitan University (MMU).

Here are five tips for maximising the regeneration benefits of markets:

1. See markets as part of the overall retail offer

Markets can be an anchor in a town centre, contributing as much as a new shopping centre to the footfall and the economy, says David Shepherd, director of economic regeneration at Barnsley Council. The markets in Barnsley town centre are the focus of a local authority-led £120 million leisure and retail development. “The footfall from the markets, which have 200 independent traders, will help the shops and also support the new cinema,” he says. “We will have the markets open into the evening while the cinemas are operating.”

Parker says that market managers need to see themselves as place managers. “They need to make sure that the retailing is up to date and relevant to their catchment,” she adds.

2. Extend opening hours

Traditionally markets have closed down in the late afternoon but they should be seen as a way of encouraging people to stay into the evening in town centres, says Chris Savage, projects manager at the National Market Traders Federation (NMTF). This works mainly for open air markets because in covered markets, the stallholders don’t put their goods away, he explains.

Allies and Morrison’s Bishop points to an open air food market next to the Royal Festival Hall on London’s South Bank. “The market’s offer complements the food available in the hall and it’s on a piece of land that is otherwise unused,” he explains.

Parker points out that the evening offer needs to be tailored for the location. “Evening markets won’t be possible in all locations, particularly in residential areas,” she says, adding that some stallholders won’t want to continue working into the evening if they’ve opened their businesses early in the morning.

3. Promote markets as meanwhile uses

Bishop says that councils should include market uses in their plans for intermediate uses when a site is awaiting redevelopment.

“Promoting a market on a site where development has been delayed is a good idea in some locations,” he explains. “But it is important to ensure that it has proper access and good connections.”

4. Manage the impact of markets on an area
Markets can overwhelm an area and limit their appeal for other uses, says Bishop, citing Camden Town in north London. “The markets have brought a lot of benefits to the area in terms of business activity but they have rather taken the area over and cause congestion.”

The Portobello Road Market in west London appeals mainly to tourists, who crowd the area at weekends, says Lance Routh, direct at architect Stiff + Trevillion, which is working on a scheme to widen its appeal. “The aim is now to look at how it can serve the local residential population during the week,” he explains.

5. Promote enterprise alongside

Markets are a big opportunity to promote enterprise among budding entrepreneurs, says the NMFT’s Savage. The federation has a programme of national youth markets offering opportunities for young people to try out their businesses further. He points to the scheme next to Portobello Road Market, which will provide workshops for stallholders to make items to sell. There will also be basic shops available for stallholders to make items to sell. There will also be basic shops available for stallholders to develop their businesses further. “The new development is on an unpromising piece of land under the M40 motorway Westway flyover next to the market,” Routh points out.


Case study: Social sustainability in estate renewal

- Researchers are looking at the regeneration of a west London council estate to assess impact of its transformation, reports Josephine Smith in this article

West London’s South Acton Estate is going through a process of transformation that promises to bring new homes and residents to an established council estate of more than 1,800 homes. The estate is in fact made up of a string of loosely connected developments, built in the 1960s and 1970s, extending from South Acton station to Acton Town station and Acton town centre. All of the existing housing, which includes tower blocks of 17 storeys, is being redeveloped, with construction divided into 21 phases. The regeneration work is expected to continue through to 2024.

Under the regeneration plans, the new Acton Gardens will have a more equal balance between affordable and private housing. The number of homes across the estate will be increased from 1,800 units to 2,500.

Challenges

Many estates are going through the kind of transformation now well under way at South Acton, with more now embarking on the process. Such regeneration projects post numerous challenges in introducing new homes, tenures and residents that are often key to the viability of development and the regeneration of a broader area. This significant change can bring benefits for existing residents in new homes and improved neighbourhoods, but it can also put the social coherence of the established community at risk. For this regeneration, therefore, the development partners, housebuilder Countryside Properties and affordable housing provider L&Q, have commissioned researchers from University of Reading and social enterprise Social Life to monitor the social impacts of change.

Regeneration and research

The 15-year redevelopment of the estate is replacing towers and lower rise blocks with higher density development, up to 12 storeys high. Homes are planned in five parkland neighbourhoods. The 1,506 socially rented units are being replaced with 1,531 affordable homes, with 1,127 being for social rent and the remaining 403 being for shared ownership, a mix intended to reflect local housing need. The first phase of the scheme, designed by architect HTA, which is also responsible for the Acton Gardens masterplan, comprises 167 tenure-blind homes located around a shared courtyard. Homes match or exceed the standards of the London Plan and London Housing Design Guide, and have balconies, winter gardens or roof terraces.

Local residents are involved in the regeneration process, and that approach has carried through to the research initiative, says Professor Tim Dixon, school of the built environment at University of Reading, a member of the research team. “The developer has gone out of their way to engage with people in the homes, and was adamant
that the research should reflect the views of the people living there. It’s early days in the project but there is a sensitivity to the dynamics of the community.”

**Outcomes**
The research looks at existing residents’ experience of rehousing, and how people living directly around the estate view regeneration. The study also includes an independent site survey to assess the quality of the built environment and provision of community facilities, using an adapted version of the Building for Life industry standard.
The aim is to develop a benchmark to compare and assess how the regeneration process affects people, and see how life is affected by changes in the built environment, as the regeneration progresses. This benchmarking approach, was in fact, created for developer the Berkeley Group to measure quality of life and wellbeing on its new developments.
The results from the first stage of the research are summarised in the report, **Measuring the social impact of regeneration in South Acton.**

Findings from the survey of 544 residents included the following:

- Residents recognised that their estate needed regeneration to improve it as a place to live, tackling overcrowding and poor quality housing in particular
- At the same time residents said that the success of the programme called for changes to more than the physical environment
- Improvements to open and green spaces and the street network have made people feel safer
- 90 per cent of people living on the newly developed Acton Gardens said that their identity is tied to their location, figures similar to residents of the old South Acton Estate and people from the wider area
- People living in Acton Gardens and the wider area reported higher levels of wellbeing and satisfaction than people living on the South Acton Estate

The research also identified areas that could need attention in the future, including accommodating local organisation that could offer support services to the community.

**Project team**

**Developers:** Countryside Properties, L&Q

**Local authority:** London Borough of Ealing

**Architects:** HTA (master planning as well as phases). Other phase architect – Alison Brooks, Stitch Studio, Maccreanor Lavington, PCKO, Levitt Bernstein

**Structural engineer:** Colin Toms and Partners

**Planning consultant:** Terence O’Rourke

Further information is available at:


**Related Link**

Whatever caused Grenfell, trust needs to be rebuilt

- The horrific fire at Grenfell Tower in London has put construction and its buildings and processes under the spotlight as never before. Rebuilding trust starts now, says CM editor Denise Chevin

In the early hours of 14 June 2017 the most tragic incident was unfolding in west London. Fire engulfed Grenfell Tower, a 24-storey tower block in Kensington, leaving an enormous loss of life, many injured and a nation asking why, in 2017, in one of the wealthiest nations on earth, 600 people were living in a death trap. How could this possibly happen?

All aspects of the management of the building and the way its 2016 refurbishment was undertaken have come under intense scrutiny in the search for answers as to why the fire could take hold so rapidly, leaving so many people trapped to perish in their homes.

Are we trying to upgrade social housing on the cheap? Did the building contravene fire regulations in some way, either as the work was carried out or through something that may have happened subsequently? What was the role of Building Control? Are the Building Regulations themselves out of date and inadequate or too flexible?

Not least under the spotlight is whether the rain screen cladding – reportedly a polyethylene-filled aluminium sandwich panels – should be deemed acceptable under the regulations for high-rise buildings of this type when it’s not in other parts of the world.

What we do know more generally is that fire regulations covering high-rise buildings of this type when it’s not in other parts of the world.

And we know too that most well-engineered plan on paper can become useless if holes of just a few millimetres wide are drilled in the wrong place, thus rendering fire stops useless – though again it has to be emphasised there is no evidence that this has happened at Grenfell.

An article run by Construction Manager recently gives an indication of these types of workmanship problems. Fire inspectors from BRE Global said that spread of fire in 30% of cases they had investigated was due to poor-quality workmanship – thought they weren’t talking specifically about high-rise refurbs.

There has also been a recent spate of cases where fire stops have been discovered to have been breached in hospitals and schools, thankfully before any fire.

It would seem too that, generally, social landlords need to up their game on fire risk management – reports about the sector have described fire doors missing and inspections failing to take place.

And then there’s the issue of sprinklers. Only 1% of tower blocks in social housing have them. That’s despite a recommendation for their use from the coroner in the Lakanal House enquiry after a fire in the Southwark tower block in 2009 killed six people. But this is not an exact science and at this stage, so soon after the event, experts have mixed views whether even sprinklers could have prevented the rapid spread and loss of life.

It certainly doesn’t look good for the government that a promised review of fire regulations in the wake of the Lakanal House fire hasn’t materialised, whatever turns out to be the reason.

We will have to wait for some time before the answers to all of these questions are bottomed out. The prime minister has quite rightly promised that there will be a full public inquiry with the interim findings to shed light on what happened as quickly as possible.

In the meantime, fire minister Nick Hurd has ordered urgent inspections on tower blocks around the country. Any doubts that are unearthed must lead to residents being speedily rehoused. It would also be reassuring to know that no further work like this is carried out until we know exactly what happened and why.

Whatever the answers – and it wouldn’t be unexpected if there are many contributing factors – this is the Ronan Point of our generation, and a seminal moment in construction.

We must do what it takes: changes to legislation, changes to procurement, shake-up of management, greater accountability and prosecutions, more inspections, more money. Trust has to be rebuilt and lessons learnt. And like the process following the King’s Cross fire in 1987, acted on swiftly and to the letter.

Related Links:
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Related Link:
Building control -

Grenfell Tower: Checks on privately owned residential blocks (DCLG)

- In the aftermath of the tragic events at Grenfell Tower, owners and managers of residential tower blocks need to urgently carry out fire safety checks to ensure that appropriate safety and response measures are in place. In particular, it is important to identify whether any high-rise buildings incorporate panels of Aluminium Composite Material.

To this end, the Department for Communities and Local Government (DCLG) is disseminating information on the checks that can be made, and the support it can provide. The details are provided in an attached letter from Melanie Dawes (permanent Secretary, DCLG), provided via the below mentioned weblink.

The main points are as follows:
- In addition to the checks on residential blocks owned by social landlords, DCLG is offering private owners of residential buildings an opportunity to test cladding on blocks over 18 metres high through arrangements put in place with BRE.
- These checks will be paid for by DCLG, and the information will be available to DCLG from BRE.
- Where owners consider that they have concerns about cladding on buildings over 18 metres high, they should follow the process defined in the letter available for download via the below mentioned weblink.
- DCLG has provided an email for enquiries: PRShousingchecks@communities.gsi.gov.uk

Related Link


From this web-link you can also gain further information about Residential property; Building controls; and Block management

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What the Queen’s Speech means for construction

Commitment to HS2 and Brexit were among the main points for construction in a low-key Queen’s Speech delivered on 21 June 2017 at the opening of Parliament.

In the speech, large parts of the Conservative manifesto were omitted, but it did touch on a number of other measures, as well as a new bill hoped to address the failings of victims in the wake of the Grenfell Tower tragedy.

The main points relating to construction in the speech were:

Infrastructure
A new bill will be brought forward for the next phase of HS2 and to attract investment into infrastructure to support economic growth in the UK. The bill, which gives HS2 powers to build and operate a line from Birmingham to Crewe, was one of the 21 pieces of legislation put forward in the government’s programme. More than £3.5bn is to be spent on this phase of the line, with the construction work expected to be split into four civils packages.

Marie-Claude Henning from the Civil Engineering Contractors Association (CECA) welcomed the decision to bring forward the HS2 bill.
Housing
Housing also got a mention with policies set out in the government’s Housing White Paper earlier in 2017 being confirmed, such as a ban on letting fees.

The speech said that there will be a new Housing Bill which will aim to promote fairness and transparency in the market and allow for the building of more new homes. There was also commitment to building more houses as well as using modern methods on construction. However, there was a lack of details on this front.

The ban on letting agent fees will go ahead in the next Parliamentary Session which will cover the next two years with the 2018 Queen’s Speech being cancelled to allow the government to concentrate on Brexit.

The speech said that the government hopes that by increasing competition in the private rental sector it will result in lower overall costs and a higher quality of service for renters.

The new law will ban landlords and agents from requiring tenants to pay letting fees as a condition of their tenancy. It will also include ways for tenants to recover unlawfully charged fees. Letting fees are already banned in Scotland.

Brexit/Skills
The speech was mainly centred around Brexit and the laws needed for the EU exit at the end of talks. Of the 27 pieces of legislation, eight were about Brexit.

The speech included new legislation related to trade and customs, immigration and fisheries after the EU exit.

Grenfell
The recent Grenfell disaster was also mentioned with the announcement of a new policy to create an independent public advocate to act on behalf of families in the disaster as well as other Hillsborough-style tragedies. May also apologized to the victims of the disaster after the speech.


Please note: There are further articles, as well as facts and figures listed within the below mentioned article and further on in this eBulletin (within the Designing Buildings Wiki section).

Related Link:
Rural – 

Queen’s Speech: Government set out their legislative agenda

- As predicted, Brexit dominated the Queen’s Speech.

Brexit
With the UK and EU beginning negotiations, the Government set out its legislation to secure a smooth exit from the European Union.

The Immigration Bill announced on 21 July 2017 proposes to end the EU’s rule on free movement at EU nationals in the UK. We believe that vibrant, sustainable and resilient property, infrastructure and construction sectors are vital to ensuring the long-term prosperity of the UK; this prosperity will grow through access to international labour, markets and capital. Access to a skilled international workforce and a focus on development the next generation of home-grown talent are critical to ensure we can build homes, businesses and infrastructure we need. Our future immigration system must aid and not hinder the movement of construction skills.

Agriculture
The need to protect our agricultural industry including food processing is vital. The Agriculture Bill states it will ensure and effective system is in place to support UK farmers and protect their natural environment after the UK leaves the EU and the Common Agricultural policy.

Food, feed and drink sector in 2016, where the value of exports from the UK was £20. 1 billion and the value of UK imports for the same category was £42.5 billion leaving an agri-food trade gap of £22.4 billion, provides a clear message that following Brexit, the UK needs resilient and sustainable agricultural and horticultural sectors, both to contribute to affordable food self-sufficiency and to expand our export base.
The Government’s previous pledge to maintain CAP payments under 2020 added some welcome certainty, however, the industry now needs an effective replacement which supports the wider rural economy as well as the farming industry with a guaranteed implementation timeline.

**Housing**

The Government’s commitment to banning letting agents’ fees for tenants is embodied in the Tenant’s Fees Bill, which will “promote fairness and transparency in the housing market and to help ensure more homes are built”. While we welcome Government’s commitment to building more homes, we have urged caution that banning fees could result in unintended consequences. The costs could be passed on in the form of higher rents, or by raising fees for landlords it could squeeze the supply of homes for the very tenants the policy is designed to help. Therefore, we must strike the right balance between allowing letting agencies to recover their reasonable costs in determining a tenant’s suitability to rent a property, and protecting tenants from suffering excessive charges by less scrupulous agents.

**Infrastructure**

We welcome the Government’s commitment to attract investment in infrastructure to support economic growth. Investment to improve existing infrastructure and deliver new strategic projects is key to building a better Britain and enabling economic growth, especially outside London where it is most needed. Successive Government have committed public funds to infrastructure, however, dependence remains on the private sector to raise the necessary capital to deliver the necessary UK infrastructure. We look forward to seeing how the Government will set out and create the right environment to incentivise long-term private investors, particularly as the industrial strategy and the next phase of High Speed Tail is pushing ahead.


**The six personas of offsite construction**

- New Construction Industry Training Board (CITB) report sets out six skills areas needed for the industry to deliver more offside construction projects

The ‘*Faster, Smarter, More Efficient: Building Skills for Offsite Construction*’ report commissioned by the Department for Education following last year’s (see publication date) Farmer Review, identifies the opportunities that offsite construction brings to the housing and commercial sectors in particular, but critically the gaps in training and skills.

A survey of 1,248 construction employers carried out by the CITB ahead of the report showed there was an overwhelming support for adopting offsite construction techniques. Of those employers with more than 100 employers, 42% said they expected their businesses to use offsite methods in 3-5 years’ time.

However, the report highlights an inadequately trained workforce as being the greatest threat to industry taking advantage of offsite construction: “The growth of offsite has seen a blurring of lines between manufacturing, engineering and construction, creating a need for new skills and redefining existing ones”.

With that in mind, the CITB has begun the process of redefining current roles by creating six personas:

1. **Digital Design (Roles include BIM Technician, Architect, Design Engineer)**
   Designers will need a new range of digital capabilities, particularly Building Information Modelling (BIM) and the design function integrated into early stage planning with contractors and client.

2. **Estimating/Commercial (Roles include Commercial Manager, Quantity Surveyor and Estimator)**
   Cost saving is one of the key advantages of offsite so the estimating function is crucial. Estimators must account for and have an understanding of materials used, transportation costs and risk factors.

3. **Logistics (Roles include Signallers, Despatch Leader, Logistics/Plant Manager)**
   For offsite construction, logistics covers planning, transportation, scheduling, goods monitoring and supply chain management. Understanding different offsite methods and materials is important for enabling decision making and planning.

4. **Offsite manufacture (Roles include multi-skilled trades, Welding Fabricator, Machinist, Project Manager, Factory manager)**
   Offsite manufacturing encompasses the creation of components, modules or entire buildings in a factory setting. This function requires technical skills, such as welding, joinery, pre-casting and steel fixing, already present in the construction workforce, plus product and process knowledge.

5. **Onsite placement and assembly (Roles include: Groundworks, Crane Operator, Assembly Technician, Site Manager)**
   Onsite assembly often relies on existing core ‘tradespeople’ skills. However, additional skills are also required. For example, a crane operator needs new skills in handling much larger, unstable pre-manufactured loads.

6. **Site management and integration (Roles include: Site Manager, Project Manager, Logistics Manager)**
   The role hinges on being able to integrate onsite and offsite functions in one project. For example, digital skills are needed to read and use BIM models, to help with correct sequencing and installation. Quality assurance skills and behaviours are also important.

The CITB also identified areas that were presenting the provision training for these personas. These included a shortage of qualified training providers and assessors, plus a lack of offsite content in existing training courses; and a lack of awareness of available courses, resulting in non-standard in-house training.

Access to further information and the full report, including CITB recommendations and Persona infographics, please visit:

*Source: Carr D (2017), Building Research Establishment (BRE) – ‘The six personas of offsite construction’, Building4Change [online], 24 April. Available at http://www.building4change.com/article.jsp?id=2816#.WQyXxWnytEY [accessed 26 June 2017], ARTICLE #2816 (BRE).*

**Top 10 tips for Higher Education to engage better with industry – Constructing Excellence (delivered with BRE)**

- Constructing Excellence’s Chief Executive, Don Ward, has put together a list of ways in which Higher Education can work better with industry, and invites comments and additions.
  1. **Guest lectures** – Invite industry leaders and local business to give guest lectures (webinars)
  2. **Support senior boards** – Talk to the leading built environment business in your area and perhaps offer to attend a board meeting to lead a discussion about sector trends and innovation
3. Seek secondments – Perhaps part-time, for key member(s) of faculty to a leading industry firm for six months or longer to aid mutual sharing of ideas and thinking

4. Signpost CE and G4C – Create a hotlink from your departmental website to Constructing Excellence – to encourage both students and faculty to tap into this resources. And signpost G4C, the early careers nationwide young persons network of Constructing Excellence, as a pathway for continued engagement with leading edge thinking in the sector. G4C [online]. Available at [http://www.g4c.org.uk/](http://www.g4c.org.uk/) [accessed 25 May 2017]

5. Join the local CE club or region – Offer to host its meetings and present from time to time – join its committee, or the board of Constructing Excellence in your region.

6. Impact case studies – Capture your best examples of value added with industry, using examples from your REF submissions or elsewhere, and make sure they are available in plain English for industry firms to read and be inspired.

7. Industry events – Work with the local, regional and national CE networks to design an annual showcase event to bring together your latest research and education offerings with key industry leaders in the region and beyond – or to get their participation in your annual careers fair.


9. Dissertation topics – Tap into CEHE’s list of suggestions sourced from national members and theme groups to help students focus on industry-relevant themes.

10. Constructionarium – Find out about this and consider how to integrate the learning experience into your curriculum. Constructionarium [online]. Available at [http://www.constructionarium.co.uk/](http://www.constructionarium.co.uk/) [accessed 25 May 2017]

Review CE’s top tips for industry – Review our sister document to this one entitled ‘12 ways you can engage with higher education’, encouraging engagement of industry with HE, see if you can improve the ideas, and more importantly use them to reach out to firms who may want to respond. Construction Excellence (2017) 12 ways you can engage with higher education [online]. Available at [http://constructingexcellence.org.uk/12-ways-can-engage-higher-education/](http://constructingexcellence.org.uk/12-ways-can-engage-higher-education/) [accessed 25 May 2017]


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Mind matters: Protecting the wellbeing of your workforce by raising awareness of mental health

*Builder&Engineer* (2017)

- While the physical safety of workers is prioritised on construction sites, mental health is over overlooked, as this author reports.

But according to the Health and Safety Executive (HSE), stress, depression or anxiety accounted for almost a fifth (18 percent) of work-related illness in the construction sector between 2013/14 – 2015/16, with more than 14,000 self-reported cases and 400,000 working days lost annually.
Cited as the “forgotten health and safety issue” by mental health charity Samaritans, Prime Minister Theresa May recently promised to tackle the issues around mental health, acknowledging that it is “something of a hidden injustice” with “unacceptable stigma”.

And with 80 per cent of construction workers believed to suffer from some kind of work-related stress, the significance of mental health in the sector has really come to the fore in recent years, explains Bill Hill, chief executive of the Construction Industry Charity the Lighthouse Club.

Suicide is now the leading cause of death in men aged 15-49 with an estimated 5,250 taking their own life each year. And with 10 to 15 per cent of those likely to work in construction, workers in the male-dominated sector are six times more likely to die from suicide than a fall from height – statistics that have provide to be a “massive industry–wide take-up call,” says Hill.

Originally set up as a benevolent fund in 1956, the Lighthouse Club has since diversified and now provides financial assistance, welfare and wellbeing advice, as well as emotional and legal support to those working in construction.

The dedicated industry charity has gone from strength-to-strength, raising more than £15 million, helping 16,000 families in the UK and Ireland and offering a “beacon of hope” to those who need it.

Further information is available at:

Related Link:
Mental health and the construction industry
A Construction Information Service (CIS) short article (05/2017) on mental health:

- One in six adults suffer from a common mental disorder
- Work-related stress, depression and anxiety account for millions of man-hours lost per year
- Left untreated, mental illness can lead to long-term disability

In a 2014 report, the NHS reported that one in six UK adults suffers from a “common mental disorder” (CMD). Along with other common mental health issues, CMDs include marked stress, depression or anxiety that interferes with daily functioning but doesn’t affect cognition or insight. Left untreated, CMDs can lead to long-term physical, social and occupational disability, and even premature mortality. When it comes to work-related mental illness, it is stress, anxiety and depression that form a CMD trifecta – affecting work performance and resulting in millions of man-hours lost per year.

Health and Safety Executive (HSE) statistics 2015/2016
HSE general statistics for work-related stress, anxiety and depression estimated that for the year 2015/2016:

- For every 100,000 workers, 1,510 reported having stress, anxiety or depression as the result of something happening with/at work. [These are reported cases; research indicates that 90% of those affected do not report the real reason for their absence.]
- There were 11.7 million working days lost due to these issues.
- When looking at all absences citing work-related illness, stress accounted for 37%. Of total working days lost for ill health, stress was cited in 45% of the cases.
- The primary causes of work-related stress, anxiety or depression included workload pressure: lack of management support, high-pressure deadlines, and an increasing amount of additional role responsibilities.

For the construction industry specifically, HSE cites 400,000 working days lost to work-related stress, anxiety and depression.

Subjects covered incl. Special subject areas; Health and safety; Occupational health; and Mental health and wellbeing
CBRE – **Global Investor Intentions Survey 2017**

- Positive investor outlook expected to drive global capital flows in 2017

CBRE’s 2017 Global Investor Intentions Survey, reflecting the input of more than 2,000 major investors worldwide, shows that investors continue to have a positive outlook on commercial real estate, with 84% of respondents globally indicating that their investment activity will be the same or greater compared to 2016. Overall, responses indicate that current economic conditions are positive and investors have ample capital to deploy in global real estate.


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**Construction growth rebounds to 17-month high as housebuilding ‘snapped back into action’ in May 2017**

Soaring housebuilding activity has helped UK construction “snap back into action” at its fastest rate for almost a year and a half in May 2017, new figures reveal.

The seasonally-adjusted Market/CIPS UK Construction Purchasing Managers’ Index rose to 56 in the fifth month of 2017 – up from 53.1 in April – to signal the strongest expansion of overall business activity for 17 months. Following the seven-month low seen in March 2017, the latest survey found a sharp and accelerated rise in housebuilding to be the key growth driver, with work on residential projects rising at its fastest pace since December 2015.

There was also a sustained recovery in new work and solid rises in civil engineering and commercial building, which grew at its fastest rate since March 2016.

Increased workloads encouraged greater staff recruitment with job creation increasing for the second month running to its strongest since January, but prices for imported materials continued to push up input costs. Despite the reading being much weaker than the post-crisis peak seen in January 2014 (64.6), Time Moore, senior economist at HIS Market and author of the Markit/CIPS Construction PMI, said: “May’s survey data reveals that the UK construction sector has started to recover strongly from its slow start to 2017.

“A sustained rebound in residential building provides an encouraging sign that the recent soft patch for property values has not deterred new housing supply. Instead, strong labour market conditions, resilient demand and ultra-low mortgage rates appear to have helped boost work on residential development projects in May.

“Civil engineering continued to flourish, helped by a strong pipeline of infrastructure projects. However, commercial building was trapped in the slow lane amid reports highlighting that heightened economic uncertainty is holding back client spending.

“The forward-looking elements of the latest survey are reassuring for the construction sector, notably the acceleration in new business growth to its strongest so far this year (see publication date).

“On the price front, while construction costs have ratcheted up over the past six to nine months, the wave of inflation from imported materials now appears to have passed its peak.”

Further information is available at:
Building better productivity

- Construction lags behind manufacturing when it comes to productivity. It’s a decades-long issue but the cute housing shortage, twinned with a widening skills gap is driving change.

In a report published by McKinsey Global Institute in February 2017, construction-related spending accounts for 13% of world GDP, yet workforce productivity growth has averaged only 1% a year over the past two decades. ‘Reinventing construction: a route to higher productivity’ is the culmination of research conducted with institutions around the world, including the Royal Institution of Chartered Surveyors and in comparing construction’s performance against manufacturing’s 3.6% growth in productivity, it paints a stark picture for the industry.

The increased complexity of projects and a highly fragmented industry, which leads to lack of investment in skills, innovation and technology are among the root causes of this low productivity, which if solved, says the report, could increase the industry’s global value to 41.6Tn, the equivalent of 2% of global GDP.

Of course, none of this is news to anyone involved in construction; the industry is littered with government-backed reports and reviews calling for improvements in efficiencies that stretch back to the Simon Report of 1944. Not all of those reports have ended up gathering dust in filing cabinet either. Take 1998’s Egan Report, which arguably sowed the seeds of the UK government’s BIM Level 2 Mandate.

Highlighting some of the fundamental principles that underpin BIM, it called for a greater client focus, integrated project processes and teams and for leading public sector bodies to become best-practice clients. It formed the basis of the government’s Government Construction Strategy 2011-2020 and Construction 2025, the latter published in 2013 and has helped to promote the roles of digital technologies and offsite construction as agents for efficiency.

Nevertheless, the efficiency problem remains and has been made more acute by a looming skills gap driver by an aging workforce and the question mark over EU labour following Brexit, as described in Mark Farmer’s Modernise or Die report.

So what can construction teams do now to improve efficiency and productivity? Building4Change in this article/interview catches up with Don Ward, Chief Executive of Construction Excellence, and Simon Cross, Director of BRE SiteSmart, who sits on the Construction Leadership Council.

Questions asked incl.
- First of all how would you measure productivity in construction?
- What is stopping companies from improving productivity of their workforce?
- Can and should companies improve the way they engage their supply chain?
- How can BIM best aid the productivity on site?
- What types of data collected on site provide meaningful information for improving productivity on existing and future projects?
- What key lessons can construction learn from manufacturing?

Related Links:

Access to further information, please visit:
Related Link:

*Reinventing construction through a productivity revolution*

**In brief**

The construction sector is one of the largest in the world economy, with about $10 trillion spent on construction-related goods and services every year. However, the industry’s productivity has trailed that of other sectors for decades, and there is a $1.6 trillion opportunity to close the gap.

- Globally, construction sector labor-productivity growth averaged 1 percent a year over the past two decades, compared with 2.8 percent for the total world economy and 3.6 percent for manufacturing. In a sample of countries analysed, less than 25 percent of construction firms matched the productivity growth achieved in the overall economies where they work over the past decade. Absent change, global need for infrastructure and housing will be hard to meet. If construction productivity were to catch up with the total economy, the industry’s value added could rise by $1.6 trillion a year. That would meet about half the world’s annual infrastructure needs to boost global GDP by 2 percent. One-third of the opportunity is in the United States, where, since 1945, productivity in manufacturing, retail, and agriculture has grown by as much as 1,500 percent, but productivity in construction has barely increased at all.

- The new MGI Construction Productivity Survey confirms many reasons for this poor performance. The industry is extensively regulated, very dependent on public-sector demand, and highly cyclical. Informality and sometimes corruption distort the market. Construction is highly fragmented. Contracts have mismatches in risk allocations and rewards, and often inexperienced owners and buyers find it hard to navigate an opaque marketplace. The result is poor project management and execution, insufficient skills, inadequate design processes, and underinvestment in skills development, R&D, and innovation.

- The productivity performance of global construction is not uniform. There are large regional differences, and major variations within the industry. The sector splits broadly into two: large-scale players engaged in heavy construction such as civil and industrial work and large-scale housing, and a large number of firms engaged in fragmented specialized trades such as mechanical, electrical, and plumbing work that act as subcontractors or work on smaller projects like refurbishing single-family housing. The first group tends to have 20 to 40 percent higher productivity than the second. However, even in the more productive heavy construction sector there are endemic – potentially structural – challenges in meeting cost and schedule commitments on megaprojects, and players routinely subcontract specialized trades.

- Examples of innovative firms and regions suggest that acting in seven areas simultaneously could boost productivity by 50 to 60 percent. They are: reshape regulation; rewire the contractual framework to reshape industry dynamics; rethink design and engineering processes; improve procurement and supply-chain management; improve on-site execution; infuse digital technology, new materials, and advanced automation; and reskill the workforce. Parts of the industry could move toward a manufacturing-inspired mass-production system that would boost productivity up to tenfold. Industrial and infrastructure megaprojects need to instil holistic project-operating systems on-site and in design offices. The highly non-linear and challenging nature of megaprojects underscores the difficulty of, and necessity for, moving toward an industrialized project-operating system.

- Many barriers to higher productivity and ways of overcoming them have been known for some time, but the industry has been in deadlock. Most individual players lack both the incentives and the scale to change the system. However, there are forces lowering the barriers for change: rising requirements and demand in terms of volume, cost, and quality; larger-scale players and more transparent markets, and disruptive new entrants; more readily available new technologies, materials, and processes; and the increasing cost of labor with partial restrictions on migrant workers. Construction-sector participants should rethink their operating approaches to avoid being caught out in what could be the world’s next productivity story.
Figure: The productivity opportunity in construction


Access to the full report, executive summary, appendices and further information, please visit:

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Why the Red Book received an essential update
- RICS Valuation – Global Standards 2017 has undergone an essential update.
Widely known as the ‘RICS Red Book’, the updated edition reflects the growing importance of combining professional, technical and performance standards to deliver high-quality valuations to clients, governments, regulatory bodies and the public.

**The update to the RICS Red Book** follows a review by the International Valuation Standards Council (IVSC) of the globally benchmarked International Valuation Standards (IVS) earlier this year (see publication date). IVS 2017 is an important milestone in harmonizing valuation practices to bring greater efficiency across international markets.

**In a rush? You one minute update** – Visit the below mentioned web-link to gain access to this ‘one minute update’ as well as a video entitled ‘What’s the value of the RICS Red Book?’ [video]

**Key changes incl.**
- Incorporation of International Valuation Standards (IVS) 2017
- Referencing of international standards for ethics and for measurement
- Greater clarification on what is mandatory and what is advisory
- Revision of PS 1 and 2 to reinforce aspects that are particularly relevant to valuation
- Revision of PS2 to references RICS Conflicts of interest
- Revision of existing VPS 1-4
- Inclusion of new VPS5 on Valuation Approaches and Methods
- Revision of VPGA 1-7
- Addition of new VPGA 8 on Valuation of real property interests
- Revision and retitling of VPGA 9 on Identification of portfolios, collections and groups of properties
- Revision and retitling of VPGA 10 on Matters that may give rise to material valuation uncertainty

**A valuable resource**
The RICS Red Book is increasingly valued by investors, mortgage lenders, portfolio managers and the public sector across the world because it enhances transparency and consistency of valuations. The revised Red Book provides greater clarity on what is mandatory and what is advisory. The individual professional standards and the technical and performance standards contained in VPS 1 to PS 5 are mandatory for all members, whereas the ‘Valuation Practice Guidance – Applications’ are advisory and embody best practice.
The updated Red Book also references the RICS Conflicts of Interest professional statement as well as the RICS measurement standards that incorporate International Property Measurement Standards (IPMS).
The updated Red Book is available to download via the below mentioned web-link and will be mandatory for all RICS valuation professionals from 1 July 2017.


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**Social housing trust targets £300m listing**
An investment trust focused on social housing is expected to launch plans for a £300m stock listing on Monday (see publication date) despite the market’s volatility since the chaotic snap election.

Residential Secure Income is planning to raise up to £300m from investors to acquire new social housing properties by appealing to them with the promise of inflation-linked returns.
The listing follows the recent £250m flotation of real estate investment trust (REIT) Sigma and peer Citivas’s £350m stock market raise last November.

However, Residential Secure Income is focused exclusively on the social housing market rather than the wider private rental market and has already identified a pipeline of suitable portfolio homes worth £263m.
Out of 23.5m homes in the UK, around 5.1m are social housing units, according to the Department for Communities and Local Governments. Housing associations own around 2.45m while local authorities own the remainder.

Investment into the housing sector has rocketed over the past five years due to the shortage of good quality and affordable housing, which has been exacerbated by a lack of mortgage availability and the UK’s booming population. In addition, a significant reduction in Government funding for housing associations has prompted private housebuilders to seek alternative financing routes to support their development plans.

Residential Secure income has been set up as a subsidiary of Trade Risks, which is long-standing adviser to housing associations and local authorities and has already arranged funding for the sector worth £10bn over the past 16 years.

Residential Secure Income is planning to list shares at 100p each and generate returns of over 8pc in order to generate a dividend yield of 5pc.

Jefferies is acting as sole adviser and bookrunner on the listing which is expected to take place around 12 July 2017.

Source: Armstrong A (2017) ‘Social housing trust targets £300m listing’, The Telegraph [online], 11 June. Available at http://www.telegraph.co.uk/business/2017/06/11/social-housing-trust-targets-300m-listing/ [accessed 26 June 2017]

From the above-mentioned web-link you can also gain further information about Housing market; Property and construction industry; and Shares.

Shaping the Future of Construction: Insights to redesign industry – World Economic Forum White Paper

In the context of the Forum’s Future of Construction initiatives, over the past year six Working Groups comprised of industry leaders, academics and experts met regularly to develop and analyse innovative ideas, their impact, the barriers to implementing solutions and the way forward to overcoming obstacles and implementing modern approaches in the construction and engineering industry.

This white paper presents the outcome of this work in the form of insight articles proposing innovative solutions on how to address the construction sector’s key challenges in the following fundamental challenge areas:

1. Project delivery – Creating certainty of timely delivery and to budget, and generally improving the productivity of the construction sector
2. Life cycle performance – Reducing the life cycle costs of assets and designing for re-use
3. Sustainability – Achieving carbon-neutral assets and reducing waste in the course of construction
4. Affordability – Creating high-quality, affordable infrastructure and housing
5. Disaster resilience – Making infrastructure and buildings resilient to climate change and natural disasters
6. Flexibility, liveability and well-being – Creating infrastructure and buildings that improve the well-being of end-users

Together with these publications, the lighthouse innovation cases and the insight articles will be posted to the Future of Construction website to enhance awareness and collaboration among the extended stakeholders of our industry.


Related Links:


Future of Construction website [online]. Available at https://futureofconstruction.org/ [accessed 26 June 2017]

NOTE: Use of Wikipedia as a reference site:

Wikipedia and use of other Wiki 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 is allowed to be a contributor to the website.

This can be avoided by following two simple rules:

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

Housebuilding rises at fastest pace since 2015

Britain’s builders are increasingly busy as construction demand grew strongly last month (May 2017), adding to growth in the manufacturing sector and further raising hopes that the economy is back on a firm footing after a wobbly start to 2017.

Home construction work rose at its fastest pace since the end of 2015, according to the purchasing managers’ index (PMI), a survey of businesses conducted by IHS Markit.

The PMI rose sharply to 56 in May, up from 53.1 in April.

Figure 1: Construction activity is picking up

Any score above 50 indicates that business activity is increasing. This indicates that the construction sector is expanding at its fastest pace for 17 months.

“After years of sluggish house building, the construction sector has snapped back into action in May,” said Duncan Brock at the Chartered Institute of Procurement & Supply.

“The unexpected recovery in construction has been felt most acutely in residential housing as builders finally feel able to respond to demand for new homes. The sector had been back by the rising cost of raw materials but after months of tense negotiations with suppliers, input prices are starting to stabilise.”

Such is the uptick in construction that companies could soon struggle to meet the rising demand.

“This marks what could be a significant Brexit bounce-back. However it is not all plain sailing from here,” said Mark Robinson, chief executive of Scapa Group, a public-sector procurement group.

“A rapid upturn in new work could ramp up the workforce pressures many supplies are already struggling with in the wake of the momentous skills crisis.

“The need to rapidly up-skill the nation will be top of the in-tray for the next Government, and failure to address it could be economically costly and politically toxic, regardless of which party takes office on June 9.”

Figure 2: Residential construction was the main driver of the improvement


It adds to indications that the economy may be picking up pace – the manufacturing PMI for April and May was higher than in the first three months of the year, raising hopes that GDP growth could accelerate from the 0.2pc expansion it recorded in the first quarter.

However, most of the private sector operates in the service industry, and those numbers will only be published later. Services performed strongly in April 2017 but economists fear there could be a drop in May 2017.

“The service sector continues to face the challenge of rising inflation hitting real incomes,” said James Pomerory at HSBC.

“Unlike the manufacturing sector, which is benefiting from the weaker pound and stronger global demand, services are more dependent on UK consumer demand. So, we expect the index to slip back.”

Further information is available at:
Countryside upgrades outlook as profits and revenues soar

Housebuilder Countryside Properties boosted its forecasts as operating profits and revenues soared by around 40pc.

The Essex-based developer traded ahead of market expectations in the first half of the financial year, and announced that its Partnerships branch has overtaken its Housebuilding arm to become the most profitable part of the business.

The Partnerships division, which builds homes alongside local authorities, now represents 52pc of the company’s profits.

In the six months to March 31, the division had 987 completions, up 23pc from the same period in the previous year. Operating profit, meanwhile, was up 66pc to £38.5m.

“This side of our business has been growing very rapidly over the past three or four years and for the first time is now the larger half of our business overall,” said chief executive Ian Sutcliffe, who added that the latest results represent the fruition of a plan to grow the division that was put in place three years ago.

“It represents more than two thirds of completions, but typically these tend to be at lower selling prices than the housebuilding side,” said Mr. Sutcliffe.

The arm provides a more stable source of income for Countryside than housebuilding because it agrees long-term contracts with local authorities, and does not depend on fluctuations in the private buyer market.

However, the housebuilding division also performed well in the half, with completions up 54pc to 450, and operating profits were up 39pc to £70.4m.

The company said the momentum in Partnerships has lead it to upgrade its full-year completion targets in the division by 10pc.
Countryside floated in February 2016 with its shares priced at 225p. Its shares were up nearly 3pc yesterday (see publication date) at 300p.

“We are delighted to where we have got to,” Mr. Sutcliffe said. “It is what we said we would do, but I think our performance has probably exceeded where our expectations were at the IPO.”

He added that he expects political support to remain behind housebuilding irrespective of who wins the upcoming election.

The Conservatives have promised a “new generation” of social housing, while Labour has vowed to build at least one million new homes over the next five years.

“Both parties have clearly stated that they see housebuilding as a priority for the infrastructure of the country, but I also think it is an important part of underpinning the economy over the next five years,” Mt Sutcliffe said. “Getting that clarity for a further five years can only be good news for us.”


From this above mentioned web-link you can also gain further information about Countryside Properties; New homes; Housing market; Affordable Homes; Construction industry; and Property and construction industry.

Related Link:
A J Bell Media [online]. Available at http://media.ajbell.co.uk/ [accessed 12 June 2017]


**Homegrown talent vital to post-Brexit Britain’s construction sector, says NFB**

As Prime Minister Theresa May officially triggers Article 50 signalling the start of the official process for the UK to leave the European Union (EU), the emphasis now must be on encouraging more homegrown talent into the construction industry, says the National Federation of Builders (NFB).

The letter for beginning Brexit was delivered to European Council president Donald Tusk today in what May deemed an “historic moment from which there can be no turning back”.

The UK will have two years to negotiate a comprehensive exit agreement with the EU which will, among other things, regulate the UK’s access to the single market. The UK will officially leave the EU on March 29, 2019, regardless of whether an exit deal has been agreed or not.

The National Federation of Builders (NFB) believes that securing an inclusive exit deal with the EU is fundamental to a prosperous future for the UK’s construction industry.

With 35,000 new workers needed each year to cope with current demand, and just 20,000 apprenticeships started in 2015, the industry faces a shortage of skilled workers that needs to be addressed.

The Government should work towards an exit deal that helps the industry encourage more British people to undertake construction careers, whilst also adopting a flexible regime for construction workers once Britain has left the EU.

Richard Beresford, chief executive of the NFB, said: “The construction industry is undergoing a major skills crisis and remains heavily reliant on skilled workers from the EU, who make almost 10 per cent of all construction workers in the UK.

“That is why we need to foster home-grown talent and attract more people from all backgrounds to join a career in construction”.


**Digital Learning Compass: Distance Education Enrollment Report 2017**

- New Study: Over 6 Million Students Now Enrolled in Distance Education

The Distance Education Enrollment Report 2017, produced by Digital Learning Compass, in partnership with OLC, Pearson and Tyton Partners, points to continued growth in distance education, even as overall higher education enrollments decline.

**Key report findings include:**

- The number of higher education students taking at least one distance education course topped 6 million in 2015.

- A year-to-year increase of 226,375 distance education students represents a 3.9% increase over the previous two years.

- More than one in four students (29.7%) now take at least one distance education source (a total of 6,022,105 students).

- Public institutions command the largest portion of distance education students, with 67.8% of all distance students.

- Large enrollment drops among for-profit institutions were drive by a few of the largest institutions; the majority of for-profit grew their distance enrollments
• The number of students studying on a campus has dropped by almost one million (931,317), between 2012 and 2015.


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Home Builders Federation (HBF) Reports and Housing Calculator

The impact of the housing crisis is now being truly understood at both local and national level with considerable focus now on political parties’ policies for addressing the chronic shortage of housing that has developed over several decades.

HBF Reports and Housing Calculator provided within the below mentioned website incl.

• Maximising the private sector’s contribution to solving our housing undersupply crisis – Following Greg Clark MP’s appointment as Secretary of State for Communities and Local Government, HBF submitted a policy paper, Maximising the private sector’s contribution to solving our housing undersupply crisis which outlined a series of recommendations and areas requiring immediate attention by the new Secretary of State (see below mentioned publication date).

• Solving England’s housing supply crisis – To read a more in-depth overview of the conditions required to dramatically increase the level of private house building and HBF’s suggestions on how to achieve this.

• Economic Footprint of House Building in the UK – To help inform our activity at the General Election and beyond, in early 2015 HBF commissioned Nathanial Lichfield & Partners to conduct an extensive analysis of the economic and social benefits associated with house building, and the

• Housing Calculator – Estimate the potential benefits of increasing house building.

Home Builders Federation (HBF), Policy and Activities, HBF Reports and Publications [online]. Further information is available at http://www.hbf.co.uk/reports/ [accessed 26 June 2017].   Back to top
Access to The Joseph Rowntree Foundation’s latest research reports and comments relating to policy and practice

- The Joseph Rowntree Foundation is an independent organisation working to inspire social change through research, policy and practice.

Their vision is for a prosperous UK without poverty where everyone can thrive and contribute. To achieve this, they work in partnership with private, public and voluntary sectors, as well as with individuals and communities.

Using evidence and experience, they search for the underlying causes of social problems and demonstrate practical solutions in order to influence lasting change.

They search out the underlying causes of poverty and disadvantage, and identify solutions – through research and learning from experience.

They demonstrate solutions – developing and running services, managing land and buildings, and supporting innovation.

They aim to influence positive and lasting change – publishing and promoting evidence, and bringing people together to share ideas.

Their website is broken down into

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New research centre to inform UK housing policy

Joseph Rowntree Foundation (JRF), the Economic and Social Research Council and the Arts and Humanities Research Council announce the launch of the new UK Collaborative Centre for Housing Evidence (CaCHE)

Brian Robson, Policy and Research Manager for housing at the independent Joseph Rowntree Foundation said: “The UK’s housing crisis has led to rising poverty and insecurity. But housing policy is also central to ensuring everyone in the UK can achieve a decent and secure standard of living. To stop high housing costs from driving down standards of living, we need a specific focus on evidence-based policies to make the market work for people on low incomes. I’m delighted JRF has been able to contribute to the establishment of this independent centre of expertise, with a presence in all four UK nations; and that consideration of the closer links between housing and poverty will run throughout its work.”

Related Link:

Housing policy needs to be based on evidence, not politicians’ whims

- UK politicians have a track record of making policy based on assumptions about how things work, rather than real research, as this article explains

Basing policy decision on the careful use of rigorous evidence is not exactly rocket science, you might think, but it is something on which UK politicians do not have a good track record, and housing policy is no exception. Take the help-to-buy policy introduced in 2013 by George Osborne. There was little evidence to support the assumption that the UK housing market would be able to build the increased number of homes that greater demand would require. In fact there is evidence that the UK housing market’s supply-side is much less responsive to increased demand than, for example, most of our European neighbours or the US house-building industry.

The result was a shortfall in housing supply.

Similarly, when policymakers introduced changes to benefits as part of the spare room subsidy they held beliefs about the speed at which affected households would be able to downsize – but the evidence that then came in proved those beliefs wrong.

The recent housing white paper in England demonstrates that the government and the housing minister do now seem more in tune with the realities of the housing market – particularly in terms of the shift of emphasis on the
Some of this is about the need for more research and bringing the academic and professional worlds closer together. We also need to understand what the housing sector believes are the most pressing evidence gaps then fill them – fundamental questions about the relationship between the economy and housing and also a greater understanding of housing’s impact on health services, education and aspirations.

To make this happen, the author of this article Ken Gibb who is Professor of housing economics at the University of Glasgow is leading a new, five-year housing research centre with funds of more than £7.5m from the Economics and Social Research Council, Joseph Rowntree Foundation and the Arts and Humanities Research Council. It will bring together nine universities and professional organisations like the Chartered Institute of Housing with the aim of producing robust evidence to inform housing policy.

The Collaborative Centre for Housing Research will be separate from government, with staff located at five hubs across the UK in Glasgow, Sheffield, London, Cardiff and Belfast. More than 200 researchers will be involved in the project, either as research investigators or contributors, and it will fund up to 10 PhDs in the first year. They’ll initially focus on six overlapping areas, including supply and demand, poverty, and neighbourhoods. We want to provide robust evidence to inform housing policy and practice across the UK, and assist in tackling housing problems at a national, devolved, regional, and local level.

To paraphrase Donald Rumsfeld, we need to shift from designing policies in an evidence-free world where we don’t know what we don’t know, to identifying the known unknowns, and, ultimately, designing housing policy based on what we do actually know.

Ken Gibb is professor of housing economics at the University of Glasgow and director of the new Collaborative Centre for Housing Research.

From this web-link you can also gain further information about Social housing / Communities / Public services policy and The Guardian Housing Network.


Related Links:


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UK Property Research – Savills latest research incl.

Residential Research
Market in Minutes: Central Scotland Residential Property Market – Summer 2017

- Quality of life and value for money drives demand and growth in Scotland’s heartland

Summary
- The market across the heartland of central Scotland is witnessing steady growth and continues to attract second home owners and downizers from outside the region.
- Whilst there has been no significant growth in values, it is the increase in the level of transactions that suggests a strengthening market
- Looking ahead, realistic pricing will be key to aligning buyer and seller expectations, against a backdrop of political and taxation challenges.

Further information and access to the research in full is available @

Choudhry F, 26 May 2017, Savills, Research and articles, Market in minutes: Central Scotland Residential Property Market [online]. Available at http://www.savills.co.uk/research_articles/141285/217440-0 [accessed 26 June 2017]

Commercial Research

Spotlight: Scottish Office Market – Spring 2017

- Savills expected a number of larger, high profile office buildings in Glasgow to become available in 2017, and they anticipated a more balanced investment picture across the Scottish cities.

Summary
- The Scottish office market has seen stable levels of take-up during the first quarter of 2017. Total take-up for the Scottish cities reached 573,718 sq. ft., in line with the quarterly average.
- Savills forecast office take-up for the key Scottish markets to reach a combined 1.7m sq. ft. for 2017, 17% above the total take-up during 2016, driven largely by an improving Aberdeen market with stable levels in Edinburgh and Glasgow.
- Savills expect top rents to remain stable in the Glasgow and Aberdeen markets at £30 per sq. ft. and £32 per sq. ft. respectively. Edinburgh is forecast to see a 1.5% rise to £34 per sq. ft. by the end of the year, driven by new product coming onto the market.
- Scottish office investment reached almost £125 million during the first quarter of 2017, around 31% down on the five-year quarterly average, with a balanced spread across the key Scottish cities.

Further information and access to the research in full is available @

Barnes M, 31 May 2017, Savills, Research and articles, UK Shopping Centre and High Street Spotlight [online]. Available at http://www.savills.co.uk/research_articles/173549/216552-0 [accessed 26 June 2017]

Rural Research

Market in Minutes Farmland Q1 2017

The supply of farmland across Great Britain in the first quarter of the year (see publication date) has shown a decrease of -38% when compared to the long-term average. While this is significant, Savills Research has seen this trend before when there has been uncertainty surrounding major, especially political, events.

Supply down
Savills research shows that supply of farmland to the market in the first quarter of 2017 is down 42% compared to Q1 2016, and 38% compared to the long-term average from 2001. In total, across Great Britain just over 11,000 acres were publicly marketed in the first three months of 2017. In England, specifically, supply decreased by 26% in the first quarter, while in Scotland market activity was just half what it was in Q1 2016, with around 2,500 acres of farmland publicly marketed in the national farming press. In Wales, the situation was even more significant: just 100 acres were publicly marketed compared to over 2,200 in the same period last year. The farmland market is generally weak in the first three months of the year, and we must be careful with percentage swings on low overall numbers. However, anecdotal evidence suggests that
while so much political uncertainty remains, this pattern will likely continue at least into the second quarter of 2017.

Further information and access to research in full is available @ Barnes M, 31 May 2017, Savills, Research and articles, *UK Shopping Centre and High Street Spotlight* [online]. Available at [http://www.savills.co.uk/research_articles/173549/216552-0](http://www.savills.co.uk/research_articles/173549/216552-0) [accessed 26 June 2017]

**Brexit Research**

Brexit Research

- This section of Savills Research has web-pages dedicated to the implications for different sections of the UK property market of the European Union (EU) referendum result.

**Latest publications incl.**

- Brexit Briefing #2: The Impact on the Central London Office Market – Market stabilising in a post-referendum environment
- Brexit Briefing: Food and Farming – Navigating through the complexity of the post-Brexit landscape: The impact of the farming sector of leaving the EU is likely to be high
- Challenges and opportunities in the next decade – What part will Brexit, housing policy and industry innovation play in meeting the nation’s housing challenges?

**Trending articles incl.**

- The impact on the central London office market – Uncertainty will be a drag on activity, but London still looks comparatively attractive
- The Impact On Global Real Estate – Reassessing risk and opportunity following Britain’s decision to leave the EU
- The Impact on the UK Logistics Market – Robust occupier take-up and low vacancy rate will keep sector attractive for investors

Ridley, M., 6 December 2016, Savills, Research and articles, *Key themes in UK Real Estate* [online]. Available at [http://www.savills.co.uk/research_articles/141282/211676-0](http://www.savills.co.uk/research_articles/141282/211676-0) [accessed 26 June 2017]

Related Link – Video: Cross Sector Research: Lucian Cook, Mat Oakley and Ian Bailey discuss what will be happening in the UK real estate market over the next twelve months [online]. Further information is available at [http://www.savills.co.uk/research/uk/rural-research.aspx](http://www.savills.co.uk/research/uk/rural-research.aspx) [accessed 26 June 2017]

**Access to the House of Commons Library, Research briefings that impact on our industries incl.**

**The Construction Industry: statistics and policy**

- Key statistics on the construction industry – employment, new orders, output. Also, construction sector policy initiatives.

In 2014 the construction industry in the UK contributed £103 billion in economic output, 6.5% of the total. 2.1 million jobs or 6.25 of the UK total were in the construction industry in Q 2015.

The construction industry, particularly house building, fared badly during the recession. Output in the construction sector fell faster than the whole economy in 2008. 2009 saw the sector recover faster than the economy as a whole, and 2010 and 2011 saw broadly flat growth, followed by another contraction in 2012 and partial recovery through 2013.

The Coalition Government’s strategy paper on the construction industry is *construction 2025*, published in July 2013.

The construction industry was also highlighted in the March 2011 *Plan for Growth*. 

Related Links/Source of further information –

**Latest research briefing papers from the House of Commons Library**

The House of Commons Library produces research briefing which provide in-depth and impartial analysis of all major pieces of legislation, as well as many areas of policy, or cover frequently asked questions and topical issues.

The following might be of interest as they impact on our industries:

- **Under Housing and planning, 2017 -**
  - Topics/Subject terms incld. Administration of justice; Agriculture and environment; Animals; Armed forces; Asylum; Aviation; Central government; Civil law; Climate change; Common Agricultural Policy; Companies; Consumers; Criminal law; Data protection; Defence equipment and procurement; Defence policy; Devolution; Economic policy; Economic situation; Energy; Environmental protection; Equality; EU- European Union budget; EU external relations; EU institutions; EU law and treaties; Europe; Farmers; Financial institutions; Financial services; Fisheries; Food; Forestry; Genetics; Health services; Higher education; Housing; Human rights; Immigration; Incomes and poverty; Industry; Information technology; International development; International economic relations; International organisations; International politics and government; International trade; Legislative process; Local government; Medicine; Middle East; North America; Overseas territories; Parliament; Pensions; Railways; Research and innovation; Roads; Russia; Science; Terrorism; Unemployment; and Water.
  - *Housing Market: Key Economic Indicators* [12 April 2017]. Further information is available at http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02820 [accessed 26 June 2017]
  - *Planning reform in the housing white paper* [8 February 2017]. Further information is available at http://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7896 [accessed 26 June 2017]

The New Homes Bonus Scheme (England) [29 December 2016]. Further information is available at http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN05724 [accessed 26 June 2017]

Overcrowded housing (England) [14 November]. Further information is available at http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN01013 [accessed 26 June 2017]


Household flood insurance [4 April 2017]. Further information is available at http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN06613 [accessed 26 June 2017]


Flood risk management and funding [9 December]. Further information is available at http://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7514 [accessed 26 June 2017]

The weather in the home countries [12 October]. Further information is available at http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN04319 [accessed 26 June 2017]

Archive:

- Housing Market: Key Economic Indicators [16 November]. Further information is available at http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02820 [accessed 26 June 2017]

- Implementation of Sustainable Development Goals [April, 2016] [online]. Further information is available at http://researchbriefings.parliament.uk/ResearchBriefing/Summary/CDP-2016-0080 [accessed 26 June 2017]

- Flood insurance [April, 2016] [online]. Further information is available at http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN06613 [accessed 26 June 2017]

- Planning: change of use [30 March 2016] [online]. Further information is available at http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN01301 [accessed 26 June 2017]

- Planning Reform Proposals [30 March 2016] [online]. Further information is available at http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN06418 [accessed 26 June 2017]


- Enterprise Zones [17 March 2016] [online]. Further information is available at http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN05942 [accessed 26 June 2017]

- Neighbourhood Planning [14 March 2016] [online]. Further information is available at http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN05838 [accessed 26 June 2017]

Source: The above mentioned research briefings/papers are published on the Parliament website and are available to MPs and to members of the public, www.parliament.uk, Parliamentary business, Publications and records, Research briefings [online]. Further information is available at http://researchbriefings.parliament.uk/ [accessed 26 June 2017]

- This page provides access to research briefings produced by the House of Commons Library, the House of Lords Library and the Parliamentary Office of Science and Technology (POST). You can filter the research briefings by date, type, or one of 350 topics. Pick your options from the dropdown menus provided.

Related Link:


CIOB (Chartered Institute of Building) portal on government policy – Policy latest

The quality of the built environment affects every member of society. As a professional body that represents the leaders and managers who work at every stage of the lifecycle of a construction project, the Chartered Institute of Building 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.

Sections of the CIOB Policy and Public Affairs website incl.

- **Consultations** - view latest responses to government and industry consultations and committees
- **Research** – The CIOB carry out industry-leading research on topics such as professionalism, migration and productivity
- **Resources** – Navigate the vast array of government documentation
- **Press** – Here you will find blog posts, CIOB media mentions and all the latest news.

As of 27 June 2017, Policy latest incl.

- **Press Release: CIOB announces Commission of Past Presidents to investigate build quality** (see below)
- **CIOB Manifesto – Building the Case for Construction** (see below)
- **CIOB and Stronger Together launch toolkit to help construction industry tackle modern slavery** (see below), and
- **Social Mobility and Construction: Building routes to opportunity** (previously covered in this eBulletin)


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Press release: **CIOB announces Commission of Past Presidents to investigate build quality**

- The Chartered Institute of Building (CIOB) has announced the formation of a Commission of Past Presidents to investigate the issue of build quality in the construction industry, and what needs to be done to address it.

The Commission will consider what steps the CIOB needs to take to address the already identified issues around management and supervision, the importance for our education framework, and whether there are further steps the industry can take to contribute to improving build quality.

**Summary**

The CIOB, in light of the report into the defects that led to the closure of 17 schools in Edinburgh earlier this year (2017) and subsequent events, has announced the formation of a Commission of Past Presidents to investigate the issue of build quality in the construction industry, and what needs to be done to address it.

The Commission will consider what steps the CIOB needs to take to address the already identified issues around management and supervision, the importance for our education framework, and whether there are further steps the industry can take to contribute to improving build quality.

A workshop at CIOB’s Members’ Forum, held in Cardiff on 21 June 2017 saw a high-level industry input into the Commission’s work, focusing on understanding the problems and identifying potential solutions.

Chair of the Commission, **Immediate CIOB Past President Paul Nash**, said: “The recent tragic events at Grenfell Tower have further underlined the need for an urgent review of the way in which quality is managed in our industry. Whilst aspects of the public inquiry must necessarily focus on the issues of regulation and inspection, I think we have to look beyond this at the behaviours that have led to a lack of focus on quality at all stages of the build process, from design and procurement through to construction and re-fit.

“The CIOB has a duty to respond to this issue, acting in the public interest. As professionals we have a duty to the industry and wider society to act responsibly and ethically. This defines what it means to be a professional. And
we all have a responsibility for the reputation for our industry and, most importantly, the wellbeing of those who use the building that we create.”

Further information is available via the following:


CIOB Manifesto – Building the Case for Construction

Summary
- In advance of the 2017 General Election, the CIOB has produced a short manifesto outlining five interlinked policy proposals for prospective parliamentary candidates and the next Government to consider.

The five aims outlined in the CIOB’s Building the case for Construction manifesto are as follows:

• Continue support for the Industrial Strategy and recognise construction’s role in improving productivity
• Work alongside the construction industry to support a robust system for training and skills development
• Recognise and address both the opportunities and risks that Brexit will bring
• Ensure quality is at the heart of the nation’s construction programme
• Focus on regional investment in construction to rebalance the UK economy

The CIOB will be writing to prospective parliamentary candidates from all the political parties urging them to consider the important of the built environment both at a local and national level.

Further information and link to the CIOB Manifesto to read online and download is available at


Press Release: CIOB and Stronger Together launch toolkit to help construction industry tackle modern slavery

- A best practice toolkit to help the construction industry tackle modern slavery in its global supply chains has been launched (on 16 February 2017) by the CIOB and industry alliance Stronger Together. This new guidance can be downloaded for free from

CIOB and industry alliance Stronger Together (2017), Stronger Together: tackling modern slavery in supply chains [online]. Further information is available at www.stronger2gether.org/construction/ [accessed 8 May 2017], and will help construction businesses shape their response to this problem in their operations and across their global supply chains.

Summary
Described by the UK Prime Minister Theresa May as “the great human rights issues of our time”, it is estimated that there are over 45 million people subject to modern slavery in the world today [1]. This new guidance from the CIOB and Stronger Together, which can be downloaded for free from the above-mentioned link, will help construction businesses shape their response to this problem in their operations and across their global supply chains. The toolkit is part of a specialist, in-depth industry programme supporting construction companies in tackling modern slavery. The programme will provide the construction sector and its clients with practical
resources and training based on the UN Guiding Principles on Business and Human Rights framework and help businesses to comply with the UK Modern Slavery Act requirements.

Although no respectable business would choose to be associated with human rights abuses and exploitation, they often infiltrate and remain hidden in supply chains. With its fragmented supply chain, covering raw material production, manufacturing and site labour, alongside opaque procurement processes and high demand for migrant labour, the construction sector is highly vulnerable to modern slavery.

The programme follows on from a CIOB report launched in July 2016, *Building a fairer system: tackling modern slavery in construction supply chains*, which examined how workers are abused in ways such as forced or bonded labour, later payment, unsanitary living conditions, unfair deductions from wages, withheld passports, loss of freedom of movement, lack of representation, violence, intimidation and physical abuse.

The UK Modern Slavery, which came into force in 2015, requires UK organisations with a turnover of more than £36 million to publicly report on how they are dealing with human rights issues in their supply chains.


**Linked Research:** *Building A Fairer System: Tackling modern slavery in construction supply chains* (previously covered in this eBulletin)


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**Apprenticeships**

Implementation is key to making the apprenticeship levy less about cost and more about gain

Among the many in-tray challenges facing university leaders across England right not, effective and efficient use of apprenticeship levy funds must surely be at or near the top of the pile. Two months on from the introduction of the apprenticeship ‘payroll tax’ (see publication date), the financial impact of levy contributions has become very real.

Since April, and like all private and public sector employers with annual staff costs over £3 million, higher education institutions across the UK are required to pay 0.5 per cent of their payroll as the apprenticeship levy. With staff costs equivalent to over half of university income, the effects are considerable. The average annual levy costs for HEIs in England will be around £400,000 with many paying more than £1 million.

Yet this particular financial challenge is balanced with financial opportunities – and all will be aware that this is a case of use it or lose it. The apprenticeship pot built up by each employer is there to be drawn on. As a sector dedicated to education, HE is in a great position to engage with apprenticeships through levy investment in reinvigorated approaches to staff development and training.

While levy monies can be spent on the programme that meets approved apprenticeship standards, the core position of education and research within the HE sector has seen nearly 100 institutions participate in employer-led development of the Academic Professional apprenticeship standard.

Formal approval of the Academic Professional apprenticeship standard and related assessment plan is imminent. Efficient and effective use of levy funds to support academic plan is imminent. Efficient and effective use of levy funds to support academic development programmes will be heavily reliant on high-quality, holistic institutional approaches that integrate with and maximize existing development budgets and training support.

Alongside researcher development leaders Vitae, the HEA has provided ongoing support to the Trailblazer group which developed that Academic Professional standard. While we await publication of the fine detail, it’s clear that the standard closely tracks the Professional Standards Framework (PSF). As the rubber hits the road, we’re already working with an ever-growing number of institutions, with HEA-accredited staff development
programmes, on action plans for any tweaks or enhancements require to help them make the most of the opportunity and draw down the levy for programmes they already run.

In doing so, we’ve noted institutions tend to fall into one of three awareness categories which provide useful pointers to VCs, Registrars and PVCs looking to bench-check their own institution’s preparation progress and the systems supporting it.

These include:

- Awareness of the challenge and opportunity still relatively limited across the institution as a whole, coupled with unease about the prospective timescale for accessing levy funding while systems are adapted and new processes put into place where necessary.

- A need for wider awareness and understanding of the end point assessment requirement of the Academic Professional standard rather than reliance on any interim progress assessments currently deployed during development programmes.

- Awareness that the Academic apprenticeship represents a powerful opportunity to support the institutional mission and strategic goals. Breaking down any silos between development support for research focused and teaching focused academics while fully integrating programme completion with key career points, such as probation and promotion, as well as informing how institutions advertise for staff.

- The need for new approaches to recognition of the plurality of the modern academic role – encompassing a broad range of skill sets spanning research, teaching, scholarship, business development, etc. – was raised at a recent meeting of the HEA’s PVC Network and is clearly a topic worthy of further debate.

The point of the apprenticeship levy is to focus employers – at least those in England – on using apprenticeships as the preferred platform for improving workplace knowledge and skills.

The Academic Professional apprenticeship, feels like the right foundation for a successful career, especially when aligned to and embedded in institutional CPD frameworks.

Right now, successful implementation carries a financial imperative. But longer term, I believe it will be the contribution of this new opportunity to further improve institutional culture that will carry the greater clout.

Further information is available at:

Source: Jones M (2017), ‘Implementation is key to making the apprenticeship levy less about cost and more about gain’, LinkedIn [online], 9th June. Available via www.linkedin.com [accessed 26 June 2017]

- Dr Mark Jones is the Chief Operating Officer at the Higher Education Academy (HEA)

Related Links:

The HEA - Higher Education Academy [online]. Available at https://www.heacademy.ac.uk/ [accessed 12 June 2017]

Launch of Apprenticeship Levy and focus on training will ‘safeguard’ construction, says developer Crest Nicholson

For us, apprentices already form an important proportion of our workforce – and we believe in the value of apprenticeships for securing future talent. Others in the industry, however, may not yet have a clear understanding of how apprenticeships can help their business.

When the levy was first announced, one of the initial concerns was that this could being significant costs for companies. However, it’s important to consider what you’re getting for your money – the cost of bringing in and developing new talent is rising, and opportunities are increasingly rare.

Although we already had a graduate recruitment programme in place at Currie & Brown, we launched an apprenticeship scheme over three and a half ago as many graduates were coming to us without the workplace skills their roles required. When we first launched the scheme we took on nine apprentices, and have recruited a further 15 since and we’re now looking at taking on 10 more apprentices by the end of the year.

While investing in apprentices means that your business is contributing financially to their education and development, the return on investment is vast. Apprentices are essentially fast-tracking their careers by developing skills, learning theory and gaining valuable work experience, while simultaneously progressing to becoming chartered. This is something which is incredibly difficult for a company to buy.

**Allocating your funds and time**

It’s sometimes difficult to know where to begin when a new government employment initiative is introduced, but there are a number of beneficial ways that companies can utilize the levy. For a start, it provides a great opportunity for businesses to invest even more – both financial and time-wise – in developing and retaining talent.

As the implementation date approached, we had to examine exactly how to adapt our employment strategy. One option is to use the funds to progress existing staff into higher or same level apprenticeships, where they can learn new skills. As well as taking on new apprentices, we will be transitioning some of our employees onto an apprenticeship scheme.

Whether you’ve employed apprentices before or not, it can take a lot of internal time to adapt your processes to make the best use of the levy. To get the most out of your apprentices, you need to dedicate some time to them, for example, providing a support mechanism and ensuring that your apprentices have a mentor to guide their development.

At Currie & Brown, we took the decision to rotate our apprentices around every department so they have a complete understanding of how the company operates.

It’s also beneficial to encourage shared learning; our apprentices set up the first ever construction apprentice network, which is now widely used by apprentices wanting to share experiences and insights with each other.

It’s vital to treat your apprentices like tomorrow’s future leaders from day one.

Choosing the best training provider

When it comes to choosing a training provider for your apprentices, it pays to partner with one that offers more than just an educational function. When we revisited our strategy in light of the levy, we decided that to get the most value out of our future apprentices we needed to build our scheme around the core skills required.

It was imperative that we worked with an apprenticeship partner that could mould the training to our business goals.

There are many providers out there, but it was an easy decision for us to switch to partnering with University College of Estate Management (UCEM). UCEM has a fantastic reputation within the built environment sector for providing high-quality online education and apprenticeships, and all our programmes are designed with significant input from the industry itself.

The institution also knows the levy inside out, and our account manager, Martin Cawley, has been an invaluable resource for information and recommendations on how we can best utilize our funds.

With UCEM, the process of recruiting apprentices has been made a lot easier than before. It offers an end-to-end apprenticeship management service; helping to source apprentices and support them along the whole journey with progress and learning reviews. This process has saved us a lot of time and money.

Another reason for us switching to UCEM was their flexibility. Almost all of the apprentices’ training can be completed online, which means that apprentices based anywhere in the country can participate.
An important aspect for consideration is the qualifications that your apprentices will receive. Training comes at various levels, from A-level equivalent right up to degree level and beyond.

One of the key motives for us partnering with UCEM was that we could map out a programme for our apprentices that takes them all the way through from leaving school to becoming chartered; rather than going through the complexities of working with many different stakeholders to train apprentices at various levels. Further information incl. Learning from the levy can be found at:

CIOB, CM - Construction Manager (2017), Apprenticeship levy: making the most of it, Construction Manager [online], 14 May. Available at http://www.constructionmanagermagazine.com/management/how-currie-brow7n-m8aking-appr5enticeship-levy/ [accessed 26 June 2017]

Need to know: Apprenticeship levy FAQ

- Understanding the funding mechanism for training can be a complex affair – so how does the government’s new apprentice training levy fit into the equation? Here’s what we know so far.

  - What is the Apprenticeship Levy?

    The Apprenticeship Levy is a new levy introduced by the government on all employers with a pay bill of more than £3m per year. It is intended to encourage employers to invest in apprenticeships, to increase the quality and quantity of apprenticeships across the whole of the economy.

    The Levy was announced in the 2015 Summer Budget and will come into force in April 2017 at a rate of 0.5% of an employer’s wage bill, paid through PAYE. It is expected to raise £3bn a year by 2020.

  - How many construction firms will need to pay the Apprenticeship Levy?

    Based on current data, about 1% of employers registered with the Construction Industry Training Board (CITB), about 600 companies will need to pay. However, the apprenticeship reforms will impact on construction employers of all sizes.

  - What will employers get back from the Levy?

    Employers in England will be able to reclaim their contributions as digital vouchers to pay for apprenticeship training.

    This voucher system will not apply in Scotland, Wales and Northern Ireland. The devolved governments in those countries will receive additional funds in proportion to the amount spent on training in England.

    Employers that pay the Apprenticeship Levy will also receive a 10% top-up from the government towards their total monthly contributions in England. So, for every £1 an employer pays in, they can draw down £1.10 to spend on apprenticeship training.

    Other question raised incl.

    - The main details regarding funding
    - How will the proposed funding bands work? Will they work for construction?
    - What’s the co-investment rate?
    - What are the new standards going to look like?
    - How will the new levy work with the current CITB levy?
    - Where can I go for more information?

    Further information can also be accessed via


    Related Link:

    CIOB, CM - Construction Manager (2015), Q&A briefing: How will the new apprenticeship levy affect the industry? Construction Manager [online], 26 November. Available at http://www.construction-manager.co.uk/news/ne1w-apprenti3ceship-lev2y-qa/ [accessed 26 June 2017]
UCEM Trailblazer Apprenticeship programme for the surveying sector

UCEM is pleased to be working in partnership with the Chartered Surveyors’ Training Trust (CSTT) to deliver the new Trailblazer Apprenticeship programmes for the surveying sector. We are partnered with CSTT to deliver both the Level 3 Diploma Apprenticeship (Surveying Technician) and also the Level 6 Degree Apprenticeship (Chartered Surveyor). Qualifications are available in Real Estate, Building Surveying and Quantity Surveying (Consulting).

Further information is available via the UCEM Website [online] and available @ https://www.ucem.ac.uk/develop-talent-for-your-business/apprenticeships/ [accessed 26 June 2017]

UCEM Accreditation and recognition

UCEM works closely with the leading professional bodies in the Built Environment to ensure that our programmes provide the knowledge and understanding required to achieve chartered status. These include the Royal Institution of Chartered Surveyors (RICS), the Chartered Institute of Building (CIOB), the Chartered Association of Building Engineers (CABE) and the Chartered Management Institute (CMI). All UCEM bachelor and masters level programmes are formally accredited by at least one of these bodies. Our Foundation Degree Surveying Practice is also recognised by RICS and CABE for Associate membership.

Under the current policy of the Hong Kong Institute of Surveyors (HKIS), graduates of UCEM programmes that are accredited by RICS are permitted to take the Assessment of Professional Competence of HKIS.

Further information can be accessed via the UCEM website [online] and available at: https://www.ucem.ac.uk/about-ucem/accreditation-recognition/ [accessed 26 June 2017]

Further information on ‘Designing Buildings Wiki’ –

The construction industry knowledge base incl. Featured articles, and news.

About – Designing Buildings Wiki is the only industry-wide, cross-discipline forum for finding and sharing information. Anyone can create articles about subjects they know and anyone can find articles about subjects they don’t.

This month covers Featured articles (as of 26 June 2017) on

- The hyperreal city – Read this article about the theories that characterize life in the hyperreal post-modern city
- Restoring Clitheroe Pinnacle
- Peter Barber interview – “We can’t sustain low density suburbs, density isn’t a choice, it’s a necessity.ˮ – Read this interview with the award-winning social housing architect Peter Barber
- Protecting open space – Conservation area designation can be crucial, but treatment of individual parks varies considerably
- Strategic brief – What is the client’s strategic brief for construction projects?
- Building of the week – Read the story behind the world’s most iconic festival stage, Glastonbury’s Pyramid Stage.
- Ronan Point – Read the story of Ronan Point, another disastrous event which had profound consequences for the construction industry
- BIM and the future of construction
- The daylight factor – As the UK enjoys a heat wave, real all about the daylight factor
- Unusual building of the week – Not only is this building shaped like a teapot, it can rotate 360-degrees
• ACM cladding, what is it used for, and is it banned?
• Architects and disputes – Read this review of a new guide aimed at helping architects avoid and resolve disputes
• Inverted roof insulation – Find out about specifying insulation for inverted roofs
• British post-war mass housing – An article looking at the mass housing provision built after WW2, such as Park Hill and Robin Hood Gardens.
• Grenfell Tower disaster – What we know so far about the Grenfell Tower fire – an overview of the facts
• How to make conservation areas work – Historic England, Las and community organisations are exploring new ways of making conservation areas effective
• Performance specification – An introductory article to performance specifications
• Lakanal House fire – Read the story of the 2009 Lakanal House fire and the findings of the inquest
• The fight for talent – Eight ways to win the fight for talent in construction
• Urban design - An introductory article to theories and practices behind urban design
• Community engagement in conservation – We need to think again about how and why we engage with the public
• Impact of the gig economy – What will the impact of the sharing ‘gig’ economy on construction craft labour and equipment markets be?
• Sustainable materials – Have a look at the tools, techniques and project management issues of sustainable materials.

This month also contains news (as of 26 June 2017) from the following organisations and online journals incl.
• British Columbia and construction – A blueprint for the construction industry from Canada’s west coast
• Transit Elevated Bus – China’s elaborate idea for a mass-transport system has been abandoned
• Wired, 26 June – The Maglev Multi elevator being tested in Germany could ‘revolutionise the shape of cities’
• Jacobin, 26 June – Owen Hatherley writes in defence of high-rise tower blocks
• ICE, 26 June – Ten members of ICE identified as some of the most influential women in the engineering
• Construction index, 26 June – 60 high-rises so far fail combustibility tests
• Celotex RS5000 – Polyisocyanurate (PIR) insulation and how it was tested
• NEC4 Design and Build – ICE publish new NEC4 Design, Build and Operate contract
• America’s failing infrastructure – Report states 42 trillion is needed over the next 10 years to fix American roads
• CIH, 23 June - Jump in number of homeless households in temporary accommodation ‘staggering’, says CIH.
• Construction Manager, 23 June – What does the Queen’s Speech mean for construction? (see above)
• The Guardian, 23 June – National Audit Office condemns ‘risky and expensive’ Hinkley Point C
• RIBA, 23 June – RIBA announce their National Award Winners 2017
• The Planner, 23 June – Councils and local organisations can now apply for Heritage Action Zone status
• Evening Standard, 22 June – Richard Rogers says ‘the Garden Bridge can help London regain its global status’
• Temple Farm Development – First ever BREEAM Communities innovation credit is claimed by Temple Farm Development
• CIOB Conservation Scheme – CIOB to help conservation specialists gain recognition for their expertise with launch of new Certification Scheme
• RICS, 22 June – Construction firms urged to help the homeless get back into work
• CITB, 22 June – 1 in 3 UK construction firms employ migrant workers, according to a new report
• Construction Index, 22 June – Experts write letter calling on PM to ‘scrap the Government’s approach to health and safety deregulation and think again’
• London Serpentine Pavilion – Have a look at Francis Kéré’s 2017 pavilion, based on the concept of the tree as a place of shelter
• Commission of Past Presidents – CIOB announce new commission to assess what more it and the industry can do to tackle build quality issues
• Archdaily, 21 June – 7 firms reveal plans for Los Angeles River revitalisation
• BRE, 21 June – BRE say they will work with government to fire test samples of cladding
• Green Construction Board, 21 June – Top tips for embedding circular economy principles in construction
• Construction Enquirer, 21 June – After Grenfell, clients, designers, contractors, suppliers, etc. need to say ‘it is time to change’
• Follo Line project – Read about the largest transport project in Norway getting underway
• Wired, 20 June – What the UK can learn from Singapore’s smart city
• RICS, 20 June – The ‘RICS Red Book’ receives an essential update (see above)
• Dezeen, 20 June – ‘A lethal failure of oversight was going to happen sooner or later’, says Owen Hatherley
• Construction Index, 20 June – All tower block landlords told to undergo tests on ACM cladding.
• City Trees – Have a look at the new project being trialled in Modena that ‘eats’ the equivalent air pollution of 275 urban trees.
• Green guide – BRE publish new document – Green guide to specification, certified environmental profiles and BREEAM (see below)
• RIBA, 19 June – Research shows how architects can build professional resilience
• Construction Manager, 19 June – Whatever caused Grenfell, trust needs to be rebuilt (see above)
• ICE, 19 June – 360-degree video lets you walk through Tunnel Engineering exhibition
• Construction Index, 19 June – Construction site managers told to review carding policies
• CITB, 19 June – CITB confirms levy rate ahead of consensus vote
• East West Metro Tunnel – Read about ICE’s recent site visit to an ambitious underground railway project underway in Calcutta
• The Planner, 16 June – Alok Sharma appointed as planning minister
• Dezeen, 16 June – Drone footage captured of soon-to-be-demolished Robin Hood Gardens estate.
• Construction Manager, 16 June – Theresa May orders full public inquiry into Grenfell Tower fire (see above)
• ICE, 16 June – Helping shape Scotland’s transport future

‘Designing Buildings Wiki’ is an industry-wide, cross-discipline forum for finding and sharing information, covering the following subject areas incl.

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Green guide to specification, certified environmental profiles and BREEAM

In June 2017, BRE published a new document entitled ‘Green guide to specification, certified environmental profiles and BREEAM’.

The selection and procurement of construction materials makes a major contribution to the life cycle impacts of a building across the environmental, social and economic aspects of sustainability.

Must is said about materials selection and many sources of information are available mostly at the level of an individual material.
Through its built environment certification scheme, BREEAM, BRE has encouraged a more whole building level consideration of materials through the use of robust and science-based approaches during the design and procurement of buildings, infrastructure and other aspects of the built environment.

BRE’s Green Guide ratings and Environmental Profiles Certification scheme has been at the forefront of the environment assessment of the built environment using Life Cycle Assessment (LCA).

However, the current focus on while buildings LCAs reflects a strategic shift in the approach taken in sustainability assessment of the built environment within the BREEAM family, and the implications of this shift on the future of Green Guide ratings and Environmental Profiles Certification is described in this document.

This document is relevant for product manufacturers, Trade Associations, BREEAM Assessors, clients, specifiers and designers alike.

This article was originally written by Susie Waddington, published on 16 June 2017 by British Research Establishment, BRE Buzz

Related Links:


NOTE: Use of Wikipedia as a reference site:

Wikipedia and use of other Wiki 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 is allowed to be a contributor to the website.

This can be avoided by following two simple rules:

- Remember that any encyclopaedia (which includes Wikipedia and any other wiki) can be a good starting point for research, and not an ending point.

- An encyclopaedia can be good for getting a general understanding of a subject before you extend your study of the subject further. But you then have to consider the subject in more depth using books, journal 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.

Designing Buildings Wiki – celebrating reaching 5,000 articles

To celebrate reaching 5,000 articles, ‘Designing Buildings Wiki’ present the most popular article in each of their 32 subject areas/categories (identified above)

Direct hyperlinks are provided to each individual article identified and can be accessed via the source provided below.
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### Category – Industry context

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You can access, read online and gain direct links to the most popular articles @

Source: Designing Buildings.co.uk Wiki, (2017) ‘Most popular articles in each subject area’ [online], last edited 11 May 2017. Further information is available at: http://www.designingbuildings.co.uk/wiki/Home and https://www.designingbuildings.co.uk/wiki/Most_popular_articles_in_each_subject_area [accessed 26 June 2017]

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This can be avoided by following two simple rules:
- Remember that any encyclopaedia (which includes Wikipedia and any other wiki) can be a good starting point for research, and not an ending point.
- An encyclopaedia can be good for getting a general understanding of a subject before you extend your study of the subject further. But you then have to consider the subject in more depth using books, journal 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.

The Construction Information Service (CIS) - Briefing June 2017 Edition

Exposure to Respirable Crystalline Silica (RCS) dust is one of the most common risks found on the construction site, especially for those working with products like brick and concrete. Here, in this Construction Information Service (CIS) Briefing they discuss the health risks associated with RCS exposure and what can be done to mitigate them.

This month’s briefing:
- Breathing in too much silica (RCS) dust is linked to several serious health conditions, including silicosis and lung cancer
- The construction industry accounts for 51% of the UK’s reported RCS-related health problems and deaths
- An HSE report that incidence of silicosis in the UK are likely to be much higher than statistics suggest

Subjects covered include:
- Respiratory
- Site safety
• Special subject areas
• Health and safety
• Occupational health

Raising awareness: the dangers of silica dust
Silica is found in rocks, sands, stones, and clay. Exposure is commonplace in construction, especially with those working with products like brick and cement. While there are established health and safety rules concerning exposure, silica dust is still one of the most prevalent causes of respiratory disease, which tells us that there is more that needs to be done.

Areas covered in this Briefing include:
• What is silica?
• Silica and construction
• Dangers of dust (incl. Asthma, Silicosis, Chronic obstructive pulmonary disease (COPD), Lung cancer and others)
• Statistics (incl. USA, Canada, UK, Workplace exposure limit (WEL)
• Case studies (incl. USA – World Trade Centre, South Africa – Gold mining, Health and Safety Laboratory, No Time to Lose campaign)
• Minimising the risk (incl. Have a good on-site health and safety programme; and Be aware, and take care)
• Additional reading from CIS

Further information is available at:


Please note: CIS can be accessed through the Athens gateway http://www.openathens.net/ and by selecting ‘IHS Technical Indexes Info4Education’. The Briefing can be downloaded from the CIS homepage.

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

• Economy and Finance - This policy theme includes work on macro-economics, trade, tax and finance. The Smith Institute’s work in this area has looked at the relationship between fairness and a strong economy.
• Government and Politics - The Institute is interested in constitutional reform, active citizenship and political participation. Future work will be exploring voting trends, the interplay between politics and policymaking and improving political engagement.
• Sustainability and Environment – The Institute’s work in this field has looked at food supply, homeworking, eco-housing, and energy policy.
• Business and Third Sector - This policy theme includes work on the business, corporate responsibility, access to finance, charitable giving and social enterprises. This year our work in this area will be focusing on corporate governance, business and rebalancing the economy, and the third sector and public services.
• Local Government Cities and Regions - This policy theme includes work on the devolution and regional economic disparities and development. The economic downturn is exacerbating the gap between London (and the Greater Southeast) and other areas of the UK. Set against this backdrop the Institute is continuing work on city-regions, economic geography and localism.
• Housing and Regeneration - This policy theme includes work on social housing, private rented sector, eco-towns, regeneration, suburbia, and urban renewal. The Institute’s work this year will be mainly focused on funding social housing, eco-homes, and place-making.
• **Work and Welfare** - This policy theme includes work on wages, good work employment, welfare, worklessness, pay, outsourcing and skills. The Institute recently undertook a major inquiry into making undertaken by Ed Sweeney (former chair of ACAS) into Making Work Better. This report was widely welcomed including support from the Labour party, unions and the EEF. The Institute’s future work programme is going to focus on procurement, living wage, employment protection and will focus on some of the main themes from the *Making Work Better* report.

• **Education and Families** – The Institute’s work in this policy area has looked at all levels of formal education and on early intervention policies. The Institute believe that it is far better and fairer for individuals and society, and makes clear economic sense, to intervene early before problems develop in later life.

• **Health and Wellbeing** - This policy theme covers work on healthcare, healthy living and mental health. The Institute are interested in health and social care, the delivery of efficiencies and fairness in the NHS, and health prevention. Future work will be focusing on the impact of the health and social care act, the ageing society, integration and public health.

• **Security and Criminal Justice** - This policy theme includes work on the criminal justice system, reducing re-offending and issues around combatting terrorism and national security. The Institute aim to undertake further research on offender management and security policy.

• **EU and International** - This policy area includes work on the European Union, trade, and Britain’s relationship with the international community and role in the world. The Institute have published a collection of essays on social Europe which, it is hoped will be followed up this year. The Institute also aim to undertake further work on economic nationalism and globalisation.

The Institute’s activities are informed by a network of well-known experts, policy makers, research fellows and patrons. Based in London, it works in partnership with a range of public and private organisations, foundations and charities. As a charity, The Smith Institute had an excellent track record in influencing and shaping public policy, and extensive national and international contacts. Over the last decade it held over 500 events and published more than 150 reports – including ‘*Working together – thinking alike: What do councils and local enterprise partnerships expect from housing associations*’ (as mentioned earlier in this e-Bulletin), with contributions from Prime Ministers and MPs to archbishops and chief executives. The Smith Institute, recently reconstituted as a not-for-profit organisation, will sustain and develop this record of achievement, and maintain its reputation and influence in Westminster and Whitehall.


[https://twitter.com/smith_institute/](https://twitter.com/smith_institute/) [accessed 26 June 2017]

on The Smith Institute’s website [online] and available @ [http://www.smith-institute.org.uk/?page_id=66](http://www.smith-institute.org.uk/?page_id=66) [accessed 26 June 2017]

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**Latest Research from The Smith Institute incl.**

*Devo-work: trade unions, metro mayors and combined authorities*

- New report examines the opportunities and limits of devo-housing in England and what further powers the new metro mayors may need

The British trade union movement has a long history of supporting devolution. The campaigns for devolution in Scotland, Wales and London were actively backed by unions. Although unions were perhaps less inspired by
Labour’s push in the noughties for elected regional assemblies in England or initially for city mayors, they have consistently argued for handing more powers back to local communities.

However, union involvement in the emergence of combined authorities has been piecemeal at best. The ‘devolution revolution’ has largely happened without them. The devo deals were for the most part exclusive to council leaders and the business community. However, we are now entering a new, and hopefully more open phase, and one which should allow local partners, like unions, access and influence. Austerity, and now Brexit, are dark clouds hanging over the devo agenda, but as this report demonstrates, the soon to be elected metro mayors will represent something different in England. A distinct form of governance which could present unions with new opportunities.

In this report, we have documented how we got to where we are, described the rather messy process around devo deals and placed the spotlight on the main issues surrounding devo work. We have also looked ahead and flagged up some of the future risks and rewards. The evidence and insights are not meant to be definitive. Rather, they are offered as a route map for unions and others seeking to navigate their way around metro mayors and combined authorities. To that effect, we hope the report, as both a resource and critical guide, will help unions extend and strengthen their relationships with elected mayors and combined authorities. It’s clear that such an outcome is a win-win for both unions and employers.


The Smith Institute, Publications [online] and available at http://www.smith-institute.org.uk/?post_type=books [accessed 26 June 2017]

**Halfway house: the opportunities and limits of devo-housing in England**

The upcoming mayoral elections (see publication date) in six city regions will usher in a new era for devolution in England. Across the country many voters will have their first chance to elect a mayor, who will subsequently have a mandate to set priorities and shape local policies. Alongside new powers over local growth, transport and public services, the new mayoral combined authorities will also have powers and funding over housing and planning.

If the mayoral races in London are replicated elsewhere then housing is likely to be a top priority for voters and a central policy area for the new metro mayors. The combined authorities are largely city-region based, and although housing costs are not as high as in the capital, they face growing pressures on availability and affordability, long waiting lists for social housing, declining homeownership rates, rising homelessness and growing and ageing populations. The challenges are made more difficult still when set against the backdrop of cuts to local authority budgets, reduced funding for housing (notably capital and revenue spending on social housing), and welfare reforms. But what will change in the new mayoral combined authorities in respect of housing and place-making? What can be achieved under the existing settlements (including powers to coordinate) and what new policies, flexibilities and funding will be required to meet the ambitious plans combined authorities (and their Local Enterprise Partnerships) have already outlined? And what does this mean for areas which fall outside the new mayoral combined authorities, will they receive relatively fewer resources and have less autonomy over local housing issues?

In this talking points publication it begins by setting the scene of where housing sits within the new devolution settlements and relationship between local and national government. The publication then explores the housing challenges metro mayors will face and what could be achieved under the existing settlements, as well as what devolution might mean for those areas not included. The report concludes by highlighting areas where further devolution may be needed and asks some key questions about the challenges the metro mayors will face in realizing their housing and growth ambitions.

The Smith Institute, Publications [online] and available at [http://www.smith-institute.org.uk/?post_type=books](http://www.smith-institute.org.uk/?post_type=books) [accessed 26 June 2017]

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#notjustfor boys / women in construction

- This collection of essays highlights the barriers to working in the construction industry that women face and demonstrates how things can be improved

It is two years since The Smith Institute first published this collection of essays. Over that time the number of women in work has increased to nearly half the workforce, with many more in professional and technical jobs. Unfortunately, one area where change has been less forthcoming is the number of women working in construction and the manual trades.

Nevertheless, efforts are being made by employers, unions, professional organisations, government, schools, training agencies and others to encourage more women into the construction industries and offer support once in work. This kind of concerted action to significantly improve both recruitment and retention is far from easy, but as the Construction Youth Trust’s #notjustforboys campaign (more details are at the end of the report) shows misconceptions, prejudice and bad practices that are at the root of the problems can be over-turned and young people can be inspired to think differently. Worsening skills shortages and the prospect of post-Brexit restrictions on migrant labour mean UK construction will have to recruit more women. Failure to act will damage our future prosperity.


The Smith Institute, Publications [online] and available at [http://www.smith-institute.org.uk/?post_type=books](http://www.smith-institute.org.uk/?post_type=books) [accessed 26 June 2017]

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Towards a suburban renaissance: a new agenda for our city suburbs

- This report examines how shifting poverty, housing and growth patterns in our cities are affecting outer areas and sets out the case for a suburban renaissance

It is 17 years since the Urban Task Force led by Lord Rogers reports its findings in Towards and Urban Renaissance. The highly influential report set the tone and agenda for the regeneration and revitalisation of many of our city centres. Quite literally on the edge of that urban renaissance debate has been the future of our suburbs. While there have been some useful reports warning about the marginalisation of suburbia they have rarely had the prominence they deserve. Moreover, when suburbs have been discussed, the debate has focused on creating new suburbs rather than examining what existing areas might need.

This report aims to build on the Institute’s previous work by examining some of the drivers of change in suburbs in three major cities, not least in respect of population change, housing, the economy, the labour market and welfare reform. The aim was not only to place the spotlight on the problems facing the suburbs, but also to set out constructive ideas for renewal.


The Smith Institute, Publications [online] and available at [http://www.smith-institute.org.uk/?post_type=books](http://www.smith-institute.org.uk/?post_type=books) [accessed 26 June 2017]

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National Trust (NT)

NT - Big Issues (incl. ‘Transport & Tourism’ and ‘Land-use & planning’) and their views

The National Trust is ‘a charity that works to preserve and protect historic places and spaces – for ever, for everyone’ (NT, 2015). The National trust protect historic houses, gardens, mills, coastlines, 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.

The National Trust [online] and available @ http://www.nationaltrust.org.uk/ [accessed 26 June 2017]

Please refer to
‘The National Trust’ and select either
‘Our cause’ and select either

Nature & Wildlife; Heritage (including information on Building Conservation); News; Land & Landscape (including information on Landscape, Coastline and Energy); &/or Food

The National Trusts work can be affected by wider national even global issues. Further information is available @ http://www.nationaltrust.org.uk/our-views [accessed 26 June 2017]

NT, Big issues - Transport and tourism –

- The NT, Big issues - Transport and tourism and how special places have been impacted by the High-Speed Rail 2

Within the Transport and Tourism section, a number of the current issues being addressed incl.

Overview of High Speed Rail 2 (HS2) Phase 1, 2A & 2 [online]. Further information is available at https://www.nationaltrust.org.uk/features/high-speed-rail-2-hs2-phase-1-and-2 [accessed 26 June 2017]

Special places impacted by HS2 [online]. Further information is available at http://www.nationaltrust.org.uk/article-1355885932182/ [accessed 26 June 2017]

High Speed Rail 2 (HS2) – phase 1 & 2 [online]. Further information is available at http://www.nationaltrust.org.uk/article-1355813240998/ [accessed 26 June 2017]

Source: The National Trust (2016), What we do, Big Issues, Transport and tourism [online]. Further information is available @ http://www.nationaltrust.org.uk/our-views [accessed 26 June 2017]

Social Media Links to follow for National Trust:

Related Link:

Five urban infrastructure projects for 2017

- Five urban infrastructure projects for 2017 incl. (1) High Speed Rail 2 (HS2) – Phase one, (2) Tideway Tunnel, (3) New Wear Crossing, (4) Bristol Temple Meads Station, and (5) Crossrail

Why the National Trust cares about planning

Land-use planning is a key tool to help the National Trust look after the nation's special places. It can also help society to create great places for people to live, work and play, and deliver a healthier, more beautiful natural environment – two key parts of the new National Trust strategy. That's why they regularly take part in the planning system and support a plan-led system to deliver good development which meets long term needs.

An effective planning system guides good, necessary development to the right places, making an important contribution to prosperity and growth. It ensures that poorly designed developments and those in the wrong place don’t get built. It delivers the new homes, shops and services that communities want, where they want them. And it protects the things that matter to us all; from much-loved open spaces, green fields and productive agricultural land to our historic city centres, towns and villages.

A planning system should:

- Be balanced - to integrate environmental, social and economic concerns
- Safeguard the public's interest - protect countryside, heritage and nature
- Start from what people value about their place

National Trust (2017), Why the National Trust cares about planning [online] and further information is available at @ http://www.nationaltrust.org.uk/features/land-use-and-planning [accessed 26 June 2017]
National Trust – “Our planning principles”

“Our planning principles are used to guide us in our decision-making on the way land is developed and managed.” (National Trust, 2016)

These principles are used to guide the National Trust in their decision making about land use and planning incl.

Seeking to influence – The National Trust seek to influence the Planning system at local, regional and national levels in accordance with their statutory purpose and will promote an integrated approach to sustainable development.

Supporting spatial planning – The National Trust support spatial planning which takes a holistic approach to the environment and its resources, plans long-term, looks at the landscape, catchment or coastal ‘cell’ scale and takes into account climate change implications.

Sensible management – The National Trust promote the wise management of the natural environment and built and cultural heritage, for our future generations, and will support high design quality.

Protecting our environment – The National Trust will seek to protect wild and remote landscapes from built development or urbanisation, especially where it impacts on their properties.

Using property management plans – In managing its land through property management plans, the National Trust will support and help to achieve the objectives of any designated landscape, wildlife, or historic sites and arenas.

Objecting to proposals, where appropriate – The National Trust will 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.

Using a sustainable construction approach – When proposing development on their land to meet justified needs, the National Trust will use a sustainable construction approach. This will include:

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

National Trust (2017), Our planning principles [online] and further information is available @ http://www.nationaltrust.org.uk/features/our-planning-principles [accessed 26 June 2017]

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National Trust – “How we engage in planning: our role as a developer”

“We are an independent conservation charity looking after a quarter of a million hectare of land, 775 miles of coastline, hundreds of houses and thousands of archaeological monuments and historic buildings, large and small.” (National Trust, 2016)

The National Trust’s planning procedure

In the course of National Trust work, they’re responsible for some new development. Whether it’s for a new visitors’ centre or a new green energy project, this means that they’re a participant in the planning system. Sometime they apply for a change of use of a building to give it a productive future use or to aid farm or estate diversification.

Very occasionally the National Trust seek to develop ‘investment’ land to meet an identified housing need. Sometimes donors specifically offer land with development potential to help pay for conservation work in the future.
The National Trust’s conservation purposes is paramount so in all cases where they apply for planning permission, they look to include sustainable development principles, seeking to minimise resource use, waste and pollution; safeguard landscape, wildlife and historic interest; respect local distinctiveness; and provide better access, and a safe and healthy environment.

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

The vast majority of National Trust land is held forever, for everyone. Less than 0.01% is currently allocated for housing in local plans and proposed for development by the Trust.

When the National Trust release land for development, they aim to use it to show what good housing can look like.

The National Trust sell land for development when they are completely satisfied that any proposed scheme is the best possible solution for the area and passes a rigorous set of design and environmental standards they apply as part of their decision-making process.

Some recent case studies are provided and include:

• Pyrland, Taunton, Somerset
• Dean Park, Bovey Tracey, Devon
• Erddig, near Wrexham, North Wales
• Stamford Brook, Cheshire

For further information and access to these case studies, visit

Source: National Trust (2017), Our planning principles [online] and further information is available @
http://www.nationaltrust.org.uk/features/our-planning-principles [accessed 26 June 2017]

Planning at a national level

- Across England, Wales and Northern Ireland, the National Trust look after a quarter of a million hectares of land, 775 miles of coastline, and thousands of archaeological monuments and historic buildings, large and small. Every year many millions of people enjoy the special places in the National Trust’s care.

The National Trust’s role - As an organisation rooted in the importance of place, the Trust has always looked beyond its own boundaries to achieve its core purpose. Founded to preserve and provide access to places of natural beauty or historic significance, the National Trust supporters were a voice against urban sprawl and ribbon development in the 1920s, and advocates of the Town and Country Planning Act, which became law in 1947.

Government’s planning rules for housing development and land use – The Government’s National Planning Policy Framework (NPPF) is the main set of rules that apply to planning decisions and local plan-making in England. The NPPF, introduced in March 2012, should ensure that development is steered to the most appropriate places. Planning development should not be weighted in the interests of purely economic development, but integrate the needs of people, places and the economy.

When the NPPF was being drawn up, the Prime Minister wrote to the National Trust to reassure them that ‘our magnificent countryside’ would continue to be protected. The Prime Minister at the time said the reforms would ‘maintain protections for the green belt, for National Parks and Areas of Outstanding National Beauty,’ and would ‘strengthen local participation’.

Monitoring Government’s plan-led system – Since the NPPF came into force in March 2012 the National Trust has been checking that the Government’s intentions are being delivered at ground level.
Planning at a local level

- At a local level, the National Trust monitor planning proposals that are likely to affect the special place in their care.

The National Trust deal with proposals ranging from anything from a house extension, through to large residential or commercial development, to new road or airport infrastructure. These will often be proposals adjacent to National Trust land, but development some distance away can also have implications on special places, for example in the form of traffic generation, or loss of habitat.

The vast majority of applications will not be an issue for the National Trust. For others, they may object, or suggest some conditions, to those which compromise National Trust purposes and sustainable development principles, or – very rarely – if they feel an unfortunate precedent might be set.

Through informed involvement, the National Trust have been able to negotiate real environmental improvements in schemes like complex infrastructure proposals, for instance on road or rail alignments.

Where it is helpful to National Trust interests, they seek to influence local transport plans, shoreline management plans, and river basin management plans.

For further information, visit National Trust (2017), Planning at a local level [online] and further information is available @ http://www.nationaltrust.org.uk/features/planning-at-a-local-level [accessed 26 June 2017]
Foster + Partners Projects

Foster + Partner is 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. Based in London, with offices worldwide, the practice has an international reputation, with buildings in six continents. By visiting their website you can gain further information about their current and past work, upcoming projects and gain access to the following:

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

Available via the Foster + Partners website [online] and @ http://www.fosterandpartners.com/projects/ [accessed 26 June 2017]

Related Link:

CIOB, Global Construction Review (GCR), 11th June 2015, Foster + Partners’ Wuhun masterplan to go ahead [online]. Further information is available at http://www.globalconstructionreview.com/news/foster-partners-wu8ha8n0-m6a4s2ter0p6l4a2n-0g8o/ [accessed 26 June 2017]

Building Information Modelling (BIM) -

What is Building Information Modelling?

There are many definitions of Building Information Modelling (BIM), but it is simply the means by which everyone can understand a building through the use of a digital model. Modelling and asset in digital form enables those who interact with the building to optimize their actions, resulting in a greater whole life value for the asset.

Through BIM the UK construction industry is undergoing its very own digital revolution, BIM is a way of working; it is information modelling and information management in a team environment, all team members should be working to the same standards as one another. BIM creates value from the combined efforts of people, process and technology.

The future of construction – BIM

Building Information Modelling (BIM) can be a valuable tool in the hands of anyone who works in construction. There’s no doubt that, the concept of collaborative working is becoming more and more popular through the years. That’s why, it’s critical for all construction agents to be aware of the different BIM maturity levels:
What BIM actually is

To put it simply, BIM refers to a collaborative method of working which is based on the generation and exchange of data and information between the various project parties. Based on this information the full cycle of a building, from conception to completion, can be managed. In that sense, it’s an indispensable part of the decision-making process. BIM started gaining attention in the 90’s and it has evolved remarkably during the last decades.

There are different levels of shared collaboration in a construction project. Those are know as BIM maturity levels. As we proceed through the levels, the collaboration between the various sides is increasing. At the time being, there are four distinct BIM maturity levels (as shown in the figure above).

Access and further information is provided via the following:


Related articles via the above mentioned link incl.

- 10 construction industry trends to watch in 2017,
- Big Data,
- BIM articles,
- Building information modelling BIM,
- Common data environment,
- Construction innovation, and
- Model-based design.

NOTE: Use of Wikipedia as a reference site:

Wikipedia and use of other Wiki 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 is allowed to be a contributor to the website.

This can be avoided by following two simple rules:

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

Gain access to theNBS.com website

January 2016 marked a new chapter in the life of theNBS.com as National Building Specification (NBS) launched their new website that puts the foundations in place for NBS to provide a better service.

The team at NBS have been working away on the project for the last few months and have gone right back to the first principles with the aim of delivering around the needs of their users.

While their new brand identity may be the most obvious visual change, the new site offers clearer navigation, improved information on its services and easier access to technical knowledge and support. The technical changes they have made also provide the foundation to provide a range of improved service in the months and years ahead.
Click here to find out about what’s changed – Getting around the new theNBS.com

NBS, Getting around the new theNBS.com website [online]. Further information is available at https://www.thenbs.com/knowledge/the-new-thenbscom/getting-around-the-new-thenbscom [accessed 26 June 2017]

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New Building Specification (NBS), NBS TV - the online video resource servicing built environment professionals.

- Case Studies
- Technical Guidance
- Interviews
- Leading Industry Figures incl.

Watch now on NBS TV ⇒ Design and Specification, and Building Technologies – NBS round-up latest articles featuring video content

Source: The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website @theNBS [online]. Further information is available at https://www.thenbs.com/knowledge/video [accessed 26 June 2017]

The NBS, NBS TV – Design & Specification [online]. Further information and additional programmes are available at https://www.thenbs.com/knowledge/design-specification [accessed 26 June 2017]


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The National Building Information Modelling (BIM) Library –


The National BIM (Building Information Modelling) Library is the construction industry’s free-to-use resource of NBS standard BIM content.

- BIM (Building Information Modelling)
  The revolutionary force of Building Information Modelling continues to reverberate insight and analysis on BIM from NBS incl.

- NBS Services for BIM
  NBS Services for BIM Projects; NBS Create; NBS Toolkit; NBS National BIM Library; and NBS Plug-ins

- Further information and guidance incl.
  NBS National BIM Survey 2016; What is BIM?; Levels of Information; Employers’ information; Are you BIM ready? And latest articles relating to BIM


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NBS BIM Toolkit BETA update -

The NBS BIM Toolkit is the easy way to define who is doing what, and when, on your Level 2 BIM projects. Further information can be accessed at The National BIM Library [online] and available @ https://www.thenbs.com/services/our-tools/nbs-bim-toolkit [accessed 26 June 2017]

NBS International BIM Report 2016

Source: www.thenbs.com

- The second NBS International BIM Survey, carried out by NBS, working closely with the International Construction Information Society, provides a fascinating insight into BIM adoption and maturity across five diverse countries.


NBS National Building Information Modelling (BIM) Report 2016 free to download –

Source: www.thenbs.com

The NBS National BIM Report is the industry's most comprehensive analysis of the state of Building Information Modelling (BIM) within the UK construction sector.

The 2016 report is the sixth such study and with consistent set of core questions the NBS were able to present a unique year-on-year comparison drawing on the insight of over 1000 construction industry professionals.

The full, free, report is now available for download (please refer to the web-link provided below) and includes comprehensive analysis of the 2016 findings alongside unrivalled expert analysis of some of the key trends.

**Blogging about BIM, Construction and NBS**

*Source:* The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website [online]. Further information and access to the BLOG are available at [http://constructioncode.blogspot.co.uk/2015/04/nbs-national-bim-report-2015.html](http://constructioncode.blogspot.co.uk/2015/04/nbs-national-bim-report-2015.html) [accessed 26 June 2017]

**Latest News on BIM - Bringing BIM back to reality**

- In the drive towards greater efficiency through the use of BIM and digital innovation, the BIM community must not forget the skills and experience of the wider workforce, in fact it needs to start talking to them better, as the author, Su Butcher explains.

When I started my training in architecture, the first thing that got me enthusiastic was the brick. That might seem a bit odd, but it’s odder than that. In a moment of epiphany, I realised why a brick is.

A brick has developed over centuries to be an ideal size for a bricklayer to handle. It is hand shaped. Realising this when I was in my later teens put a whole new slat on my view of the world. Suddenly I saw men’s hands everywhere, making the built environment around us.

This memory came back to me when I was the BIM Prospects conference, where I chaired the sessions for construction product manufacturers. Afterwards I was sitting in a session all about technology and the future, and I found myself listening to Chris Freeman of the Advance Manufacturing Research Centre in Sheffield. He was talking about the Augmented Worker.

The concept of the Augmented Worker is to take augmented reality (AR) and to use it to enable people to do their work more effectively and more efficiently. AR (rather than VR which is an immersive environment – like stepping into another world) brings information in our own visual field, overlaying it onto what we can already see. If you’ve ever seen someone hold a tablet over a building and see an extension to the building appear on the tablet, that’s AR.

The first Augmented Worker Chris was showing us was a theoretical plumber. He was wearing a headset which gave him a view of the services hidden behind a wall. As well as being shown the services, the plumber could bring up the plans of the services, his work tasks for the day, the information he needed to do his job and access to a remote expert. By superimposing these onto his view of the task in hand, he would be able to do his job better. Chris and his consortium have applied for Innovate UK funding to take this work forward.

Earlier this year (see publication date) I was approached by the UK BIM Alliance (UKBIMA) to assist them in communications. UKBIMA has a huge task in front of it. It has been tasked by government to help the construction industry adopt Level 2 BIM ‘Business as Usual’ by 2020. In other words, it must effectively disseminate the concepts and practice of Level 2 BIM across the country, in a way that is accepted and valued for its business value, by millions of construction workers and thousands of SMEs, not just the big construction firms. To do this UKBIMA must communicate, which means it must listen.

To date BIM has also had a difficult journey. It is probably the most misunderstood term in our industry, and as with much of our industry practice, many have exploited these misunderstandings for their own gain, damaging the perception of what could be the thing that finally helps us work properly – the successful adoption of collaborative ways of working, supported by digital technology.
I believe that if the construction industry is to adopt new ways of working, it must think of, and listen to, the worker, not just the shareholder. It must take what we have already with all its complexity and nuances, and understand it, if it is to work out how we’re going to get where we want to go.

One of the tasks UKBIMA has recently taken on is to run a series of small workshops to help its team understand the industry. The workshops are talking to people from all levels of our industry, from all disciplines, and to the sceptics. The same familiar faces have had their opportunity, we need to talk to the sceptics to get an idea of where we are, so we can work out how to get to where we’re going.

Further information and related links are available at:

BIM Prospects – Embedding BIM in the supply chain [online]. Further information is available at http://www.bimprospects.com/ [accessed 26 June 2017]

Advanced Manufacturing Research Centre [online]. Further information is available at http://www.amrc.co.uk/blog/pushing-the-boundaries-of-reality-helps-manufacturers-gain-an-edge [accessed 26 June 2017]

UK BIM Alliance [online]. Further information is available at http://www.ukbimalliance.org/ [accessed 26 June 2017]


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Related Links:
BIM’s legal stumbling blocks: what you need to know

Construction Manager (CM) round table: What happened to the BIM bang?
- A year after the mandate, CM brought together 10 industry stakeholders to discuss progress … or lack of it.

CM’s BIM survey 2017 results analysed
- During January and February 2017, Construction Manager once again surveyed our readers to gauge how user trends had moved since the 2016 survey. Here’s what the result revealed.

BIM bytes: The JCT Design & Build contract and BIM

Back to BIM Basics
In the rush towards a BIM-enables construction, we should remember what lies at the core of BIM

Building4Change @
https://twitter.com/Building4change [accessed 26 June 2017]

Unlocking the potential of BIM
Building Information Modelling – or BIM as it is more commonly known – has become something of a buzz word for the construction sector since the Government launched its Construction 2025 strategy in 2011. In this article, the author, Claire Cameron, investigates why firms should be embracing the technology. Cameron, C., (2016), ‘Unlocking the potential of BIM’ [online] and available at http://www.builderandengineer.co.uk/feature/unlocking-potential-bim [accessed 26 June 2017], Building&Engineer, 30 December.

Latest library resources incl. new book titles, journal articles and research

Take a look at Taylor and Francis Online, FREE planning and urban design series ebooks

Have you ever wanted a quick snapshot of one of our series but didn’t know where to start? Taylor and Francis Online have compiled a selection of chapters from some of the new and key books in the Planning and Urban Design series, and created individual e-books for each one.

Further information is available at Taylor and Francis Online, via https://www.routledge.com/reference/posts/4970?utm_source=plan&utm_medium=cms&utm_campaign=sbu3_vej_3rf_8cm_3pla_rf2v15_bls15_x_plan [accessed 26 June 2017]

& Taylor and Francis Online, Planning and Urban Design blog @ https://www.routledge.com/planning/posts?utm_source=banner_ad&utm_medium=banner&utm_campaign=sbu3_cth_4mx_4ad_3pla_cmg15_eupdatesblog_x [accessed 26 June 2017]

Read a free collection of research in Higher Education

Higher Education is rapidly evolving. Questions on technology, open education, the sciences versus the humanities, and diversity abound. Wiley Education hope that the research included in this collection will shed light on these issues, and prompt you to ask new questions about the future and role of higher education around the world.

The Higher Education collection includes sections on:

- Diversity and inclusion in Higher Education,
- Course of Study in Higher Education,
- Higher Education Policy, and
- Higher Education around the World.


Read the most talked about articles in Education!

Altmetrics tracks and measure the impact of scholarly research. The 20 article title bellows are the most talked about education articles on Twitter, on Facebook and in the news –

- The effect of Twitter on college student engagement and grades, Journal of Computer-Assisted Learning
• Once Upon a Time: Parent-Child Dialogue and Storybook Reading in the Electronic Era, Mind, Brain & Education

• The effects of musical training on the decoding skills of German-speaking primary school children, Journal of Research in Reading

• Why What Works Wont Work: Evidence-based Practice And The Democratic Deficit in Educational Research, Educational Theory

• How and How Not to Prepare Students for the New Tests, The Reading Teacher

• Sharing personalised stories on iPads: a close look at one parent-child interaction, Literacy

• What is Education For? On Good Education, Teacher Judgement, and Educational Professionalism, European Journal of Education

• Specific Reading Comprehension Disability: Major Problem, Myth, or Misnomer? Learning Disabilities: Research and Practice

• Boredom in the lecture theatre: An investigation into the contributors, moderators and outcomes of boredom amongst university students, British Educational Research Journal

• Parents’ experiences of applied behaviour analysis (ABA)-based interventions for children diagnosed with autistic spectrum disorder, British Journal of Special Education

• “Not Designed for Us”: How Science Museums and Science Centers Socially Exclude Low-Income, Minority Ethnic Groups, Science Education

• Twitter for teaching: Can social media be used to enhance the process of learning? British Journal of Educational Technology

• To know is not enough: research knowledge and its use, Review of Education

• Adolescent Pregnancy’s Intergenerational Effects: Does an Adolescent Mother’s Education Have Consequences for Her Children’s Achievement? Journal of Research on Adolescence

• How Ought War To Be Remembered in Schools? IMPACT: Philosophical Perspectives on Education Policy

• Experimental evaluations of elementary science programs: A best-evidence synthesis, Journal of Research in Science Teaching

• Is no praise good praise? Effects of positive feedback on children’s and university students’ responses to subsequent failures, British Journal of Educational Psychology

• Second Language Comprehensibility Revisited: Investigating the Effects of Learner Background, TESOL Quarterly

• The New Literacies of Online Research and Comprehension: Rethinking the Reading Achievement Gap, Reading Research Quarterly

• Enhancing Young Hispanic Dual Language Learners’ Achievement: Exploring Strategies and Addressing Challenges, ETS Research Report Series


RICS Library services and e-Resources

Source: UCEM (2016)

RICS (Royal Institution of Chartered Surveyors) is an international professional body and represents everything professional an ethical in land, property and construction. RICS promotes and enforces the highest professional
qualifications and standards in the development and management of land, real estate, construction and infrastructure. Their expertise covers property valuation and management; the costing and leadership of construction projects; the development of infrastructure; and the management of natural resources, such as mining, farms and woodland. RICS Library services and e-Resources [online]. Available at http://www.rics.org/uk/knowledge/library/ [accessed 26 June 2017].

RICS Library services and e-Resources – Similar to the UCEM e-Library, RICS uses DawsonEra as their eBook platform as well as subscribing to EBSCO and Emerald e-Journals. However, whilst RICS only subscribes to 6 specialised Engineering, Construction and Architectural Management titles, Note:

UCEM Library services and e-Resources incl. Emerald Insight – Access provided to the ‘Property Management and the Built Environment’ collection

UCEM students and staff have access to over 115 Full-Text Journals within ‘Emerald Management e-Journals’, in addition to the entire ‘Property Management and the Built Environment’ collection including the following titles:

- Built Environment Project and Asset Management
- Construction Innovation: Information, Process, Management
- Engineering, Construction and Architectural Management
- Facilities
- International Journal of Housing Markets and Analysis
- Journal of Corporate Real Estate
- Journal of Engineering, Design and Technology
- Journal of Facilities Management
- Journal of Place Management and Development
- Journal of Property Finance
- Journal of Property Investment and Finance
- Journal of Property Valuation and Investment
- Property Management
- Smart and Sustainable Built Environment
- Structural Survey

NOTE: For the above link to work you must ensure that you are logged-in to Athens (Section 2 of the VLE e-Library)

Please also refer to the UCEM e-Library portrait and Journal Review mentioned below that shows a wealth of additional and valuable resources that the UCEM Library offers.

Please also note the RICS Library Online catalogue which is an excellent resource. Available at http://unicorn.rics.org/uhhtbin/cgisirsi.exe/0/0/0/60/69/X [accessed 26 June 2017]

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& finally ….  

Guardian University Awards 2017: the winners
- The 2017 awards recognised universities for pioneering work transforming the lives of students and communities
It’s been a busy year for universities. They’ve discovered a new planet, brought about changes in the law that will protect the rights of the deaf community and transformed the care given to stroke patients. They’ve even spread the love of geology using a seismometer to measure the roaring explosions of victorious Leicester City fans (otherwise known as a Vary Quake).

The Guardian University Awards 2017 showcases some of the great work carried out by UK universities. This year, they saw a huge number of submissions demonstrating social and community projects – the second most popular category for entries behind student experience. Universities told us about their innovative volunteering programmes, as well as the outreach work they’re doing to make the ruts and sciences accessible to local people.

There was also a big leap in the number of universities celebrating the work they are doing to advance staff equality – a positive sign for a sector that is, like many, severely lacking in diversity at leadership level.

The Guardian’s universities editor, Judy Friedberg, said the awards ceremony, was a chance to celebrate brilliance at universities.

Awards were presented for

- Advancing staff equality
- Buildings that inspire
- Business partnership
- Digital innovation
- Employability initiative
- Entrepreneurship
- International projects
- Marketing and communications campaign
- Research impact
- Social and community impact
- Student diversity and widening participation
- Student experience
- Sustainability project
- Teaching excellence, and
- Inspiring leader


+ the winners and runners ups are available at:


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Within this RICS Global Commercial Property Monitor, *Improving global economic backdrop supporting market sentiment* –

- Around two-thirds of countries report for positive readings for both occupier and investor sentiment
- European cities continue to show strongest positive momentum alongside Sydney and Auckland
- Expectations pick up particularly smartly in India and show early recovery signs in Brazil and Russia

“The Q1 2017 RICS Global Commercial Property Monitor shows sentiment improving (or becoming less negative) in the majority of markets reported on in this survey. This is broadly consistent with macroeconomic new flow which generally continues to surprise on the upside. That said, feedback from respondents still remains somewhat cautious in parts of Asia and the Middle East.

The headline Occupier Sentiment Index improved in 22 of the 32 counties tracked (see graph 1 below), relative to the average readings over the previous two quarters. As has been the case now for a number of quarters, the leading group in terms of occupier market momentum remains primarily comprised of occupier market momentum remains primarily comprised of European cities. These include Madrid, Budapest, Dublin, Munich, Berlin and Lisbon, while away from Europe, Sydney and Auckland also continue to record strong OSI readings. Even so, the result from Sydney contrast with those for Australia as a whole. Subdued demand growth at the national level is anticipated to lead to only marginal near term rental increases, while Sydney is seeing a much stronger rise in tenant interest and therefore expected to post stronger rental gains.

In terms of global investment trends (see graph 2 below), the latest results point to Spain seeing the sharpest quarterly improvement in market conditions. Indeed, respondents reported a robust rise in investment enquiries during Q1 and are now more confident of seeing further near term capital value growth than at any other point since 2008 (net balance of +62%). When broken down, projections in Madrid are slightly stronger than the national average. Elsewhere, Hungary, the Czech Republic, Germany and Ireland all retained strong Investment Sentiment Index readings. In each case, growth in demand is outstripping that of supply (in net balance terms), producing solid expectations for capital value growth. Notwithstanding this, across Prague, Hamburg, Frankfurt, Munich and Berlin, perceptions are rising that market conditions may be close to peaking.”


**Graph 1 - Q1 2017: Global Commercial Property Monitor**

P.T.O.
Graph 1 - Q1 2017: Global Commercial Property Monitor

Source: RICS Economics Research: Global Commercial Property Monitor (Q1: 2017), page 2

Graph 2 - Q1 2017: Global Commercial Property Monitor

Source: RICS Economics Research: Global Commercial Property Monitor (Q1: 2017), page 2


These include:

- The monthly UK Residential Market Survey. Note: The latest survey, dated 12 April 2017
• Commercial property – Analysis and discussion papers

• Commercial property - UK Commercial Market Survey. **Note:** The latest survey, dated 24 April 2017

• Quantity surveying and construction – UK Construction Market Survey

• Commercial property – Global Commercial Property Monitors. **Note:** The latest survey, dated 3 May 2017 (as above)

• Quantity surveying and construction – Global Construction Market Survey

• Rural – RICS/RAU Rural Land Market Survey and Land Prices. **Note:** The latest survey, dated 22 February 2017

• Residential property – UK Chart Book

• Facilities management – Pub Benchmarking Survey

• Residential property – Hong Kong Residential Market Survey. **Note:** The latest survey, dated 18 April 2017

• RICS/Ci Portuguese Housing Market Survey

• Cyprus Property Price Indices


**N.B.** The RICS published report, entitled, ‘UK Construction Market Survey’, can be accessed through ISURV [online], available via the VLE e-Library and section 5 – Industry Sources.

Alternatively, please request a copy from the UCEM Library by emailing library@ucem.ac.uk.

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**Latest RICS Research/Market Surveys available - UK Residential Market Survey (2017)**

**UK Residential Market Survey** - A leading sentiment indicator of conditions in the UK residential sales and lettings markets, used by the Bank of England and covered across the media.

The UK Residential Market Survey is used by the Government, the Bank of England and other key institutions, including the International Monetary Fund (IMF), as an indicator of current and future conditions in UK residential sales and letting. It is covered extensively in the media and is the leading source of market intelligence, highly regarded both by investors and across the industry.

By visiting the website of the Royal Institution of Chartered Surveyors [online], you can access, read-online and download surveys from the last two years.

For further information, visit the RICS website, and select Knowledge, and Market Surveys from the toolbar and the top of the RICS website, **UK Residential Market Survey, February** (and published 12 April 2017) [online] and available @ [http://www.rics.org/uk/knowledge/market-analysis/rics-residential-market-survey/](http://www.rics.org/uk/knowledge/market-analysis/rics-residential-market-survey/) [accessed 26 June 2017]


[https://twitter.com/RICSNews](https://twitter.com/RICSNews) [accessed 26 June 2017]

[https://www.facebook.com/ricssurveyors](https://www.facebook.com/ricssurveyors) [accessed 26 June 2017]

[https://www.linkedin.com/groups?gid=88902](https://www.linkedin.com/groups?gid=88902) [accessed 26 June 2017]

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Barbour API’s Economic & Construction Market Review

- The Economic and Construction Market Review provides valuable insight and market intelligence to help forecast new business opportunities and driver marketing activity.

This monthly round up of construction market intelligence combines data on the UK construction industry trends and analysis with data on the economic climate from previous months. Barbour’s Lead Economist Michael Dall compiles the monthly Economics & Construction Review, so you can rely on the most valuable, and up-to-date information each and every month.

Economic and Construction Market Review includes:

- UK Economic Trends – The latest GDP, unemployment and economic growth figures
- Construction Sector Performance – The latest construction industry figures including information from the Office for National Statistics, the best performing sectors and the levels of construction contracts from across the UK.

Further information and access to the review is available via Barbour Index API, Economic and Construction Market Review [online]. Available at: http://www.barbour-abi.com/economic-and-construction-market-review/ [accessed 26 June 2017]

Latest Statistics from the Office for National Statistics (ONS)

Office for National Statistics (ONS), Release calendar [online]

Office for National Statistics (ONS), Release calendar [online] and available @ http://www.ons.gov.uk/releasecalendar [accessed 26 June 2017]

The above-mentioned link provides access to the Office for National Statistics (ONS) releases only. For official statistical releases across government visit the Publication Hub - GOV.UK, Statistics: release calendar [online] and available @ https://www.gov.uk/government/statistics/announcements [accessed 26 June 2017].

Office for National Statistics - Construction Industry update

- Construction of new buildings and repairs or alterations to existing properties in Great Britain measured by the amount charged for the work, including work by civil engineering companies.


From the above-mentioned webpage, you can access Datasets, Publications/articles and Methodology, as well as ‘All data’ and ‘All publications’

Construction industry highlights include:

Construction output in Great Britain: April 2017 and new orders Jan to Mar 2017

- Short-term measures of output by the construction industry in Great Britain and contracts awarded for new construction work in the UK

What’s in the bulletin?
Output in the construction industry fell 0.6% in the 3 month on 3-month time series; driven mainly by a 0.9% fall in all new work, representing the first 3 month on 3 month fall in construction output since September 2016.

Construction output also fell month-on-month in April 2017, dropping 1.6%; driven by falls in both repair and maintenance, and all new work.

The fall in all new work in April 2017 was somewhat offset by a sizeable rise in infrastructure, which grew by 5.7% compared with March 2017.


Datasets related to Construction industry incl.

- **Output in the Construction Industry** – Monthly output at current price and chained volume measures seasonally adjusted by public and private sector. Quarterly non-seasonally adjusted type of work and regional data.
- **Output in the Construction Industry, All Work Summary** – Monthly output all work summary at current price and chained volume measure seasonally adjusted by public and private sector
- **New Orders in the Construction Industry** – Quarterly new orders at current price and chained volume measures seasonally adjusted by public and private sector. Quarterly non-seasonally adjusted type of work and regional data.
- **Interim construction output price indices** – Monthly construction output price indices (OPIs) from January 2014 to March 2017, and
- **Construction Statistics Annual Tables** – These tables cover a wide range of statistics that are currently available on the construction industry.

Output in the Construction Industry incl.


- A summary of the construction output price indices (OPIs) for Quarter 1 (Jan to Mar) 2017, produced using an interim solution whilst we continue to develop appropriate methodologies for the long-term. Data in this release are Experimental Statistics.


Related Links:

- The Construction Statistics Development Work Plan (104.4 Kb Pdf) provides users with information on the work that will be completed over the next 12 months, including investigations into both the nominal data and options for measuring construction price statistics.


Office for National Statistics (ONS), 29 February 2016, Article: Construction Output Price Indices (OPIs): Interim solution, Quarter 4 (October to December) 2015 [online]. Available at
This article contains a summary of the construction output price indices (OPIs) for Quarter 4 (October to December) 2015, produced using an interim solution whilst ONS continues to develop appropriate methodologies for the long-term. Data in this release are experimental statistics.

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**Construction Statistics, No. 17, 2016 Edition** (Latest release)

- A wide range of statistics on the construction industry in Great Britain: statistical trends, international comparisons and leading initiatives that may influence the future.

**Construction** industry – **Construction** of new buildings and repairs or alterations to existing properties in Great Britain measured by the amount charged for the work, including work by civil engineering companies.

The construction statistics annual publications bring together a wide range of statistics currently available on the construction industry from a variety of sources. This edition updates the figures for Tables 2.4, 2.8, 2.9, 3.1, 3.3, 3.4, 3.5 that were supplied in *Construction Statistics Annual 2015*. All other tables that were previously contained in the annual statistics publication are no longer collated and published by the Office for National Statistics (ONS). Where these data tables are no longer published, links have been provided for you to obtain the relevant data. This is the eighth web-based only edition and the tables produced by the ONS are available in an Excel dataset, allowing independent analyses of the published information.

These National Statistics are produced to high professional standards and released according to the arrangements approved by the UK Statistics Authority.


**Related articles/links:**


- This article contains a summary of the construction output price indices (OPIs) for Quarter 4 (October to December) 2015, produced using an interim solution whilst ONS continues to develop appropriate methodologies for the long-term. Data in this release are experimental statistics.


- This article contains a summary of the construction output price indices (OPIs) for Quarter 2 (April to June) 2016, produced using an interim solution whilst ONS continue to develop appropriate methodologies for the long-term. Data in this release are experimental statistics.

ONS Dataset: *Construction Statistics Annual Tables* [online]. Available at [https://www.ons.gov.uk/businessindustryandtrade/constructionindustry/datasets/constructionstatisticsannualtables](https://www.ons.gov.uk/businessindustryandtrade/constructionindustry/datasets/constructionstatisticsannualtables) [accessed 26 June 2017]

**Office for National Statistics (ONS), Construction Statistics Articles** [online]. Available at [http://www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/previousReleases](http://www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/previousReleases) [accessed 26 June 2017]

**Note:** As of 2016, the Office for National Statistics website has been updated and by selecting ‘Construction’, ‘Construction Industry’, ‘Construction Statistics’ a wealth of information is available. ONS website @ [www.ons.gov.uk](http://www.ons.gov.uk) [accessed 26 June 2017].
Office for National Statistics (ONS) website [online]. Further information is available at http://www.ons.gov.uk/ons/index.html [accessed 26 June 2017]

https://twitter.com/ONS [accessed 26 June 2017],

https://www.facebook.com/ONS [accessed 26 June 2017],

https://www.linkedin.com/company/office-for-national-statistics [accessed 26 June 2017]

https://www.youtube.com/user/onsstats [accessed 26 June 2017],

ONS, Browse by Theme [online] and available @ http://www.ons.gov.uk/ons/browse-by-theme/index.html [accessed 26 June 2017]. Please refer to

‘Business and Energy’ and ‘Production Industries’ and ‘Building and Construction’

Glenigan, provider of UK construction project sales leads, market analysis, forecasting, and company intelligence

Construction Market Analysis
- Grow your business and reduce risk by using in-depth construction market analysis and robust data-driven forecasts. You can examine performance and prospects nationally; by each of the 12 Government economic regions; and 11 market segments. You can explore the market at the right state of your business whether that is during planning; at the tendering and contract phase; or when projects have started on site. This information and more can be accessed, read-online and downloaded via the


Health and Safety Executive (HSE) – Construction Statistics
The mission of the Health and Safety Executive (HSE) is to prevent death, injury and ill health in Great Britain’s workplaces. Areas covered within the HSE Website incl.

- Openness
- Standards and performance
- Framework management standards
- Health and safety inspection visits
- Real people vide

The HSE’s work covers a varied range of activities; from shaping and reviewing regulations, producing research and statistics and enforcing law.
For further information on HSE’s Construction Statistics visit the following:

*Source:* Health and Safety Executive (HSE) website and select

- ‘Statistics’ and
- ‘Industries’ and
- ‘Construction’

that will take you to ‘Construction Industry’.

HSE [online] and further information available at [http://www.hse.gov.uk/Statistics/industry/construction/index.htm](http://www.hse.gov.uk/Statistics/industry/construction/index.htm) [accessed 26 June 2017]

HSE, *About us* [online] and further information is available at [http://www.hse.gov.uk/aboutus/insidehse.htm](http://www.hse.gov.uk/aboutus/insidehse.htm) [accessed 26 June 2017]

## GOV.UK – Construction Statistics

**GOV.UK,** Department for Business, Innovation and Skills (BIS), 30th January 2013, Collection: *Construction statistics* [online] and further information incl.

- Monthly Statistics of Building Materials and Components;
- BIS Construction Price and Cost Indices Online;
- Construction Key Performance Indicators;
- Output and New Orders in the Construction Industry; and
- Consultative Committee on Construction Industry Statistics (CCIS)) are available at

GOV.UK, Department for Business, Innovation and Skills (BIS), *Construction Statistics* [online] with further information and web links provided @ [https://www.gov.uk/government/collections/construction-statistics](https://www.gov.uk/government/collections/construction-statistics) [accessed 26 June 2017]

&

**House of Commons Library, Briefing Papers incl. The Construction Industry: statistics and policy**

- Key statistics on the construction industry – employment, new orders, output. Also, construction sector policy initiatives.

In 2014 the construction industry in the UK contributed £103 billion in economic output, 6.5% of the total.

2.1 million jobs or 6.25 of the UK total were in the construction industry in Q 2015.

The construction industry, particularly house building, fared badly during the recession. Output in the construction sector fell faster than the whole economy in 2008. 2009 saw the sector recover faster than the economy as a whole, and 2010 and 2011 saw broadly flat growth, followed by another contraction in 2012 and partial recovery through 2013.

The Coalition Government’s strategy paper on the construction industry is *construction 2025*, published in July 2013.

The construction industry was also highlighted in the March 2011 *Plan for Growth.*


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The school where you and your children were educated has been at the heart of your community for 30 years. And now it’s been given two weeks to vacate the premises – because someone else is claiming that they own the land it stands on.

Impossible? The scary truth is, it’s entirely possible – if you live in a country with poor land tenure security. It’s a problem affecting millions, causing economic insecurity, encouraging corruption and in many cases forming a fundamental block on development activity.

That’s why a far greater level of attention is now being given to the issue, and lawyers, surveyors and local people are all playing a role in improving how we record, enforce and protect land rights. In our lead feature, we assess the scale of this challenge, and the opportunities that success could open up.

Also in this month’s “Responsible” issue:

- At the end of 2015, countries from across the world approved a landmark UN global climate accord with the aim of limiting global warming to 1.5°C. Then Donald Trump, a man with very different ideas about climate change, was elected US president. What happens next?
- As the polar ice melts, the Arctic is being thought of less as an impossibly remote and inhospitable natural wilderness … and more a resource-rich landscape ready for exploitation. Modus assesses who is involved, and what is at stake in the scramble for its resources.
- In the digital age, what is a map? Modus speaks to a new breed of professionals who are taking the map away from its two-dimensional origins and turning it into an open-source, living medium.

This digital magazine can be accessed by following the above-mentioned web link.

Modus contains regular sections on

- **Feedback** – Readers views on Modus and the surveying profession
- **Intelligence** – Global news, RICS President’s column, plus opinions, advice and information, reviews and reactions
- **Law advice** – Legal 101 … A warning about estate agent’s commissions
- **Business advice** – Set your search engine marketing strategy

This issues features include:

- **Lies of the land** - Improving the lives of millions around the world who still have no security of tenure
- **Still in denial** - Does Donald Trump’s presidency spell the end of the Paris climate agreement
- **Arctic encircled** - As the ice melts, the race for the region’s untapped natural resource is hotting up
- **Uncharted territory** - A new surveying movement is refreshing the parts that other maps cannot reach
- **Frankfurt takes aim** - Could Germany’s financial capital become the main event post Brexit?
- **Austria’s new Lake District** - The new city of Aspern Seestadt makes a splash on the outskirts of Vienna
- **Thinking: Steve Choi** - A new credential aims to instill confidence in the practice of determining fair value in financial reporting.
- **Difference of opinion** – Debated for centuries, could the idea of imposing a land value tax ever be put into practice? Modus hears two points of view
- **Mind Map** - Cushman & Wakefield’s Sigrid Zialcita discusses fintech’s influence on real estate
- **Professional Development** - Leadership in infrastructure management
- **Careers** - Quit your job without burning your bridges; Knight Frank Cambodia’s Ross Wheble MRICS

Topics covered include ‘Environment’, ‘Planning & development’, ‘Infrastructure’, and ‘Land use’.
Please note: In addition to MODUS, RICS publishes other journals that are free to view online incl.

- Construction Journal,
- Building Surveying Journal,
- Building Conservation Journal,
- Building Control Journal,
- Land Journal, and
- Property Journal.

Source: Royal Institution of Chartered Surveyors (RICS). Further information can be accessed via the RICS Website, News, Journals [online] and available at http://www.rics.org/uk/news/journals/ [accessed 26 June 2017]

Latest issue of Contractors World (Vol. 6, No 2) incl.

Cover story: On the road to recovery in Yorkshire

- It has been over 200 days since communities across Yorkshire had their Christmas stolen by Storm Eva. Flood defences were damaged and telemetry stations – which monitor river levels – logged record-breaking levels, alongside the obvious and devastating damage to businesses and property across Yorkshire.

The Leeds EA office has become a hive of recovery activity. They have a repair programme consisting of 400 projects and just as many issues raised by businesses, residents and professional partners such as the local council. They have visited over 150 communities and completed 162 projects to repair damaged flood defence assets, with an ambitious target to complete all remaining repair works by the end of September.

They have repaired all 62 telemetry site faults within 5 days – most of these faults related to power disruption but some were actually under water. They are working hard to ensure there is still an effective flood warning service and a skilled field team who continue to work on flood-risk modelling, planning and the funding aspect of flood schemes.

One example of the vital work they are doing is the installation of temporary defences at Vodafone in Leeds and at BT in York, preventing the loss of communications across Yorkshire.

They have also set up an office hub in Mytholmroyd, Calderdale, to support the ever-growing flood warden and flood action groups. They relationships with local communities have been critical and they were invited to help celebrate with residents in Hebden Bridge when they held their ‘alternative Christmas’ party on 25 June.

For further information, visit


Contractors World magazines (incl. Contractors World International and Contractors World UK & Ireland) are the leading international digital publications. Delivering site reports, equipment reviews and comments of interest on the construction, mining, quarrying and related industries, and including videos [online]. Available at http://cwmags.co.uk/index.php [accessed 26 June 2017].
& Steel or Timber – How will the housing market react?

- With an increased emphasis on modern methods of construction and the benefits of off-site manufacturing, the steel industry is increasingly developing new systems for homes of the future

In this article, Phil Bloomfield, Commercial Director at the British Board of Agrément (BBA), discusses how it could even challenge the dominance of timber-framed houses in the years to come.

There is nothing new about steel-framed homes, which were widely used to tackle the housing shortage just after the Second World War – and many are still standing and are being refurbished by housing associations to bring them up to modern standards.

Until fairly recently it was almost impossible to obtain a competitive mortgage on a steel-framed home because of corrosion problems and other perceived disadvantages, but that has all changed, say the BBA, who are working with key suppliers to raise standards and improve quality to meet the demand for offsite construction.

The housing and residential sector demands buildings that are energy efficient, that offer rapid construction potential and are of high quality. Steel and composite construction has achieved a significant market share in the medium-rise residential sector in the UK because of the need to build quickly, particularly in urban projects.

For further information, visit Contractors World, (2016), 'Steel or Timber – How will the housing market react?', Contractors World UK & Ireland Volume 6, No 2, 2016, Page 15 [online]. Further information available at http://cwmags.co.uk/cwuk-6-1/digital/#20 [accessed 26 June 2017]

Contractors World magazines (incl. Contractors World International and Contractors World UK & Ireland) are the leading international digital publications. Delivering site reports, equipment reviews and comments of interest on the construction, mining, quarrying and related industries [online]. Available at http://cwmags.co.uk/index.php [accessed 26 June 2017].

BIFM Digital Magazine – FM World June 2017: the latest issue

fm-world.co.uk is the online magazine of the British Institute of Facilities Management (BIFM) and is available to access and view online.

In this latest issue,

FM Industry News:
• Level 4 and Level 6 FM apprenticeships approved
• Every building on the planet must be ‘net zero carbon’ by 2050 to keep global warming below 2C
• Engagement event for public sector framework set for 6 June
• European guide highlights shifts in contract cleaning
• Unite’s dust-up over Mears’ beards ban

Business News:
• Compass Group lands £25.5m Milton Keynes hospital deal
• CH&Co Group and Harbour & Jones announce merger
• Incentive launches new M&E division
• Emprise scores cleaning deal at Arsenal’s Emirates Stadium
• Elior stirs up 10.9% rise in first-half revenue

News analysis:
• Food and FM industry faces serious waste challenge
• Think Tank: What measures does FM need from the next government?
• How buildings can take a fitness test
• ThinkFM 2017: How technology maps the way ahead
• Hot drink provision – how have trends changes?

Business analysis:
• Rethinking security
• Will metro mayors deliver on services?
• Due diligence key to Brexit
• Bank goes the nuclear theory
• Doubt remains the name of the game


The Heritage Alliance’s latest Heritage Update E-Bulletin – June 2017
Heritage Update is the Heritage Alliance’s voice to, and for, the sector. The popular fortnightly e-bulletin offers policy updates, news, a consultation round-up, events / course listings and job vacancies.

The latest issue (June 2017) that can be accessed and downloaded (for personal use as reference) from the above mentioned web link and contains further information on the following:

Heritage Update E-Bulletin
Headlines:
• Heritage Alliance welcomes Ministers following General Election
• Heritage Alliance and British Council webinar on cultural heritage post Brexit
• All churches Trust joins the Heritage Alliance
• Heritage 2020: Apprenticeship Reform workshop
• Social Investment Consultancy and Support Sessions
• Giving to Heritage – Evaluation Survey Prize

News round-up:
• Museums and galleries monthly visits
• York Museums wins business rates case
• Insurance Premium Tax increases to 12%
• Study on creative value chains published
• Historic Environment changes in Wales come into force
• The Fundraising Preference Service
• M&S Energy – Community Energy Fund now open
• Join the UK’s biggest online match funding campaign
• Scholarships for MSc in sustainable Building Conservation
• ICOMOS-UK Summer Talks: ‘Spaces of Memories’
• Campaign to Save Winsford Cottage Hospital
• War Memorials Online Workshops
• RTPI Heritage Matters from Policy to Practice Seminar – 5 July 2017
• Canalettor & the Art of Venice at the Queen’s Gallery
• Free seminar on issues facing charities
• Free webinar on the structure and economy of the UK voluntary sector

Have your say
• Open consultations
• Survey on the European Year of Cultural Heritage website and more.


https://twitter.com/Heritage_NGOs [accessed 26 June 2017]

https://www.linkedin.com/grp/home?gid=4898001 [accessed 26 June 2017]

Heritage Alliance welcomes Ministers following General Election

Following the General Election Loyd Grossman, Chairman of the Heritage Alliance, has written to ministers to congratulate them on their appointment or re-appointment enclosing a copy of The Heritage Alliance Manifesto 2017.

The Rt Hon Karen Bradley MP has been re-appointed Secretary of State for Culture, Media and Sport. She has announced her full ministerial team and their portfolios.

• John Glen MP has been appointed Parliamentary Under Secretary of State for Arts, Heritage and Tourism. John Glen is now responsible for arts, culture, heritage, public libraries, museums, National Archives and tourism.
• Matt Hancock MP has been appointed Minister for Digital. Responsibilities include the creative industries, digital skills and engagement and data;
• Tracey Crouch MP has been appointed Parliamentary Under Secretary of State for Sport and Civil Society. Responsibilities include the Office for Civil Society and The National Lottery and society lotteries; and
• Lord Ashton of Hyde has been re-appointed Parliamentary Under Secretary of State with responsibility for ceremonials, DCMS business in the Lords and First World War commemorations.

The Heritage Alliance look forward to continuing work with the Government to achieve positive changes for the Heritage sector.

Related Links:


Heritage Alliance and British Council webinar on cultural heritage post Brexit

On Friday 9th June, Lizzie Glithero-West FSA, Chief Executive of the Heritage Alliance, and Silke Pillnger, Director of EU Arts from the British Council, chaired a webinar ‘What role can Heritage play in the future of the cultural sector post-Brexit’.

The debate and discussion started with an in-depth interview with an expert panel incl. Ben Cowell, Director General of the Historic Houses Association [and deputy Chairman of the Heritage Alliance], Henry Owen-John, Head of International Advice at Historic England and Peter Hinton, Chief Executive of theChartered Institute for Archaeologists [and Trustee of the Heritage Alliance]. This was followed by an open Q&A session where everyone could pose their questions to the panel.

A rundown of the webinar with timings is below

00:00 – Introduction to the Context of this Webinar
03:18 – Meet the Speakers & Guest Host
08:20 – PANEL INTERVIEW
08:45 – TOPIC 1 – Funding
16:05 – TOPIC 2 – Regulations
24:10 – TOPIC 3 – Movement of People
39:00 – TOPIC 4 – Opportunities for Future Work
31:45 – Open Q&A Session
55:40 – Conclusion & Next Steps

You can listed to the webinar via the below weblink and there is also a dedicated LinkedIn group where comments and feedback can be made.

remitted development right which allows building up could have negative effects on our historic townscapes and should be controlled by planning permission.


Heritage 2020: Apprenticeship Reform workshop

On 15th March 2017, the Heritage 2020 Capacity Building working group held a workshop on Apprenticeship Reform in the cultural heritage sector as part of its work to ensure access to skills, knowledge, and infrastructure to support the management of the historic environment.

The workshop was designed as a means of bringing people together to address one aspect of the barriers surrounding skills development. Its aims were: to update participants on the Apprenticeship Levy and Apprenticeship reform in England, including the Trailblazer process; to share experience and practice in developing new Apprenticeship standards; and to establish next steps and priorities for the cultural heritage sector. These aims were set to ensure a shared level of knowledge and understanding on changes to Apprenticeships, thus reflecting Heritage 2020’s mission to address key challenges in the heritage sector through collaborative working.

Outcomes from the day included a series of potential next steps which potentially include the development of a ‘consortium’, (designed to take an overview of both Trailblazer – related activities and Apprenticeship Standards), to identify existing strengths to be capitalised on and any gaps that need to be filled. Heritage 2020, as a mechanism for bringing organisations together, will consider these future actions thoughts its Capacity
Building Working Group in relation to its priority area of creating a more integrated and focused approach to education, training and continuing development. Heritage 2020 is grateful to the Heritage Lottery Fund and Historic England for their support of the day.

A full summary of the day and presentations are available at the Heritage 2020 website

Related Link


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Museums and galleries monthly visit

Latest figures on the number visits to museums and galleries sponsored by the Department for Culture, Media and Sport in April 2017 have been published.

In April 2017, there were a total of 4.6 million visits to the DCMS sponsored museums and galleries. This is an increase of 17.7% (695,000 visits) compared with April 2016.

This release provides information about visits to sponsored museums and galleries in England. The visit figures are updated on the first Thursday of each month (aside from January), and will be one month in arrears to allow time for the museums and galleries to collect the data. The release is a time series including previously published data.

Related Link


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Study on creative value chains published

The EU has published A study on the economy of culture in the digital age. This maps the different value chains for visual arts, performing arts, cultural heritage, artistic crafts, book publishing, music, film, TV and broadcasting as well as multimedia.

The study examines how the competitive position of the cultural and creative sectors (CCS) is affected by digitisation. From creation to consumption, all steps in the value chains have been influenced by new digital solutions. They have brought about new opportunities for innovative practices and new ways of interaction with audiences, but also challenges such as piracy and an increased pressure on existing models of remuneration and value creation.

The study discusses aspects related to competitive dynamics, market imperfections, rights, management, cultural diversity and other issues of importance to today’s cultural and creative sectors.
Based on the analysis and supported by an online crowdsourcing process with experts and stakeholders, the study put forward recommendations to policy-makers on what is needed for the CCS in today’s digital world.

Related Link:
EU Law and Publications


Historic Environment changes in Wales come into force

The Welsh Government has provided an update on the commencement of the Historic Environment (Wales) Act 2016 and changes to the Planning (Listed Buildings and Conservation Areas) Act 1990. There is also new Regulations, changes to directions on aspects of listed building and conservation area consent procedures, and new supporting guidance.

A new Technical Advice Note (TAN) 24: The Historic Environment has been published.

Related Links:


-This letter and associated annexes provides information on implementation of the Historic Environment (Wales) Act 2016 and associated matters.

The letter provides detailed information on the following:

- The commencement of provisions within the Historic Environment (Wales) Act 2016
- New regulations relating to the historic environment
- Changes to the Listed Building Consent Checklist
- Publication of a new Technical Advice Note 24: The Historic Environment
- Changes to directions on listed building and conservation area consent procedures
- New supporting historic environment guidance


- Guidance on how the planning system considers the historic environment during development plan preparation and decision making on planning and listed building applications.

The TAN provides guidance on how the following aspects of the historic environment should be considered:

- World Heritage Sites
- Scheduled monuments
- Archaeological remains
- Listed buildings
• Conservation areas
• Historic parks and gardens
• Historic landscapes
• Historic assets of special local interest

The TAN replaces the following Welsh Office Circulars:
• 60/96 Planning and the Historic Environment: Archaeology
• 61/96 Planning and the Historic Environment: Historic Buildings and Conservation Areas
• 1/98 Planning and the Historic Environment: Directions by the Secretary of State for Wales


Abstract: In this first issue in 2017, Open Praxis briefly report on some illustrative statistics and information about development, covering until publication of Volume 8 in 2016 and providing specific data about that volume. After the brief report, what follows is an introduction to the first Open Praxis issue in volume 9, which includes seven articles in the research papers section and one innovative practice paper.

Keywords: higher education; online education; elearning; OER; MOOC; open education


Research articles -

Title: For whom, and for what? Not-yetness and thinking beyond open content
ISBN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: This article traces a line through contemporary critical perspectives on open online education, which challenge an emphasis on content and access that gives too much weight to instrumental goals of education. This article offers the concept of ‘not-yetness’ as a productive lens for examining alternative meanings of openness. Not-yetness emerged as a response to a dominant discourse of technology in education – including technologies of openness – that has been characterised by rhetoric of control, efficiency, and enhancement. Not-yetness invites a rethinking of online learning and digital education in terms of risk, uncertainty, and messiness and brings our attention to the variability of open education contexts and learners. Using examples of a ‘federated wiki’ and ‘agents beyond the course’, the article shows how higher education pedagogies can and should engage with boundary-crossings between openness and closure, and demonstrates the value of the perspectives that such engagements bring to the fore.

Keywords: boundaries; risk; critical perspectives; open education; online learning; digital education; notyetness; complexity; emergence


doi: http://dx.doi.org/10.5944/openpraxis.9.1.406 [accessed 26 June 2017]

Title: Lay Theories Regarding Computer-Mediated Communication in Remote Collaboration
ISBN: 2304-070X

Publisher: International Council for Open and Distance Education (ICDE)

Abstract: Computer-mediated communication and remote collaboration has become an unexceptional norm as an educational modality for distance and open education, therefore the need to research and analyse students’ online learning experience necessary. This paper seeks to examine the assumptions and expectations held by students in regard to computer-mediated communication and how their lay theories developed and changed within the context of their practical experiences in conducting a remote collaborative project, through computer-mediated communication. We conducted a qualitative content analysis of students’ final reports from an inter-institutional online course on computer-mediated communication and remote collaboration. The results show that students’ assumptions were altered and indicate the strong benefits of teaching how to collaborate remotely, especially if a blended approach of theory and practical application are combined.

Keywords: Distance Learning; Computer-mediated Communication; Lay Theories; remote collaboration.


doi: http://dx.doi.org/10.5944/openpraxis.9.1.502 [accessed 26 June 2017]
• **Title:** Implementing the First Cross-border Professional Development Online Course through International E-mentoring: Reflections and Perspectives  

**ISSN:** 2304-070X  
**Publisher:** International Council for Open and Distance Education (ICDE)  
**Abstract:** This research paper discusses the accomplishments, issues, and challenges by Open University of Sri Lanka (OUSL) academics when offering the first cross-border professional development online course to train online tutors and mentors. The course was delivered exclusively online and facilitated by OUSL academics and e-mentors from the USA. The course was comprised of 30 participants: 9 from Pakistan, 10 from Mauritius and 11 from Sri Lanka. This qualitative study is based on reflections of both faculty and participants. Data were collected using reflections and informal anecdotal records of the three OUSL academics and self-reflection instruments (pre, mid and final) administered to participants, and reflective journal entries made by participants. Participants’ views were triangulated with the reflections of the OUSL academics to validate the results. While there were many accomplishments in the design and delivery of the course, the findings revealed that there were many challenges in implementing the course: pedagogical, organisational and technological aspects in particular. The paper provides recommendations to address such challenges when offering cross-border online courses in the future.  
**Keywords:** Reflective practice; Professional development; Cross-border; e-mentoring, Instructional design; Online learning  
doi: [http://dx.doi.org/10.5944/openpraxis.9.1.461](http://dx.doi.org/10.5944/openpraxis.9.1.461) [accessed 26 June 2017]

• **Title:** A MOOC approach for training researchers in developing countries  

**ISSN:** 2304-070X  
**Publisher:** International Council for Open and Distance Education (ICDE)  
**Abstract:** We report on an online course in research writing offered in a massive open online course (MOOC) format for developing country researchers. The concepts of cognitive presence, teacher presence, and social presence informed the design of the course, with a philosophy of strong social interaction supported by guest facilitators. The course was developed with low-bandwidth elements and hosted on a Moodle site. It was offered twice as a MOOC and 2,830 learners from more than 90 countries, mainly in the developing world, took part. The average completion rate was 53%. Female learners and learners who were active in the forums were more likely to complete the course. Our MOOC approach may be a useful model for continuing professional development training in the developing world.  
**Keywords:** MOOC; higher education; researchers; developing countries; continuing professional development; Moodle  
doi: [http://dx.doi.org/10.5944/openpraxis.9.1.476](http://dx.doi.org/10.5944/openpraxis.9.1.476) [accessed 26 June 2017]

• **Title:** Current Status of the MOOC Movement in the World and Reaction of the Turkish Higher Education Institutions  

**ISSN:** 2304-070X  
**Publisher:** International Council for Open and Distance Education (ICDE)  
**Abstract:** This manuscript intends to elaborate the current status of MOOC movement in the world and to reveal the results of a survey study in which the Turkish higher education institutions’ reactions to this movement was investigated. The survey was actually a part of a larger survey study that, as a deliverable of the EU funded HOME project, was conducted to contribute to the literature by providing an insight about European
perspectives on MOOCs, to gain a better understanding of the strategic reasons why a higher education institution is or isn’t involved in MOOCs, and to compare these reasons with the results of similar studies in U.S. After a brief background and history of MOOC movement, following sections of the manuscript present the details (methodology and results) of the survey study on the Turkish HE institutions’ strategies regarding adaptation of MOOCs. The final part of the manuscript consists of discussions and conclusions drawn in the light of the results of the study.

Keywords: MOOC; adaptation; Turkey; Higher Education; institutional strategy; online education


- **Title:** Analysis of Student and Faculty Perceptions of Textbook Costs in Higher Education  
  **ISSN:** 2304-070X  
  **Publisher:** International Council for Open and Distance Education (ICDE)  
  **Abstract:** The cost of textbooks has continued to impact students in higher education. Students have reported that they make decisions on which courses to take based on the specific cost of textbooks. Faculty have reported willingness to use open textbooks to help ease the burden on students but are unsure where to find viable options. We examined the responses of 67 students and 573 faculty from a large private university (Brigham Young University, Provo, Utah) to understand the real impact of textbooks costs to students and how they are dealing with this ongoing problem. We found that 66% of students at this institution have not purchased a textbook due to cost. We also discovered that 91% of faculty at this institution would be willing to use OER alternatives and that 53% of them would welcome assistance identifying and adapting materials for their course.  
  **Keywords:** Cost of higher education; open educational resources; open textbooks; OER  

- **Title:** Measures of student success with textbook transformations: the Affordable Learning Georgia Initiative  
  **ISSN:** 2304-070X  
  **Publisher:** International Council for Open and Distance Education (ICDE)  
  **Abstract:** In 2014, the state of Georgia’s budget supported a University System of Georgia (USG) initiative: Affordable Learning Group (ALG). The initiative was implemented via Textbook Transformation Grants, which provided grants to USG faculty, libraries and librarians, and institutions to “transform their use of textbooks and other learning materials into using lower cost options”, in other words to use open education resources (OER) in lieu of a traditional bound textbook. The Round One Textbook Transformation Grants have already shown to be successful in that they saved students approximately $760,000. What is not known, is the collective impact on student learning. This study examines the learning gains or losses pre- and post-transformation in ALG Round One courses where traditional resources were replaced with OER. It estimates differences between pre- and post- textbook transformation across the following outcomes: 1) Drop Fail Withdraw (DFW) rates, 2) rates of completion, 3) numbers of students receiving a final grade of A or B, C and D, 4) numerical final grades as a percent, 5) final exam grades as a percent, and 6) course-specific assessment grades measured in percent. Twenty-four data sets were analysed for DFW rate, eight data sets for completion rate, fourteen data sets for grade distribution, three data sets for final exam grades, three data sets for course specific assessment and one data set for final grades. The null hypothesis that there would be no differences between pre- and post-transformation rates in these learning outcomes was supported. Thus, this study demonstrates that the USG’s ALG initiative helped students save money without negatively impacting learning outcomes. In addition, it is the first of its kind to measure some of these learning outcomes (e.g. final exam grade, assessment grade, and distribution of letter grades) at this scale.
**Keywords:** Open Education Resources; Affordable Learning Georgia; textbook transformation; learning outcomes; higher education


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### Innovative practice articles -

- **Title:** Building a Virtual Learning Environment to Foster Blended Learning Experiences in an Institute of Application in Brazil

**ISSN:** 2304-070X

**Publisher:** International Council for Open and Distance Education (ICDE)

**Abstract:** Blended learning, the combination of face-to-face teaching with a virtual learning environment (VLE), is the theme of this study that aims at describing and analysing the implementation of a VLE in the Institute of Application Fernando Rodrigues da Silveria, an academic unit of the State University of Rio de Janeiro. This study’s main contribution is to reflect on the complexity of the institute that comprise schooling for basic education students and teacher education, from elementary school to postgraduate education. The wide scope of the institute encompasses face-to-face and non-presential activities, in different proportions, depending on the educational segment. Thus, starting from the assumption that blended learning teaching processes foment more student-centered educational models and facilitate interactions between individuals, a collaborative way was chosen as the VLE development method, contributing to pedagogical practices that favour meaningful learning. The VLE design was developed to meet the different needs and demands of the different educational segments. Currently there are 295 registered users. However, there are no registered basic education students so far. This can be justified by the fact that the VLE is relatively new to the community, and the participation of basic education students in the VLE depends on their teachers’ enrolment and use of the VLE itself.

**Keywords:** blended learning; basic education; teacher education; design of virtual learning environment; cooperation school/university


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**OLC Online Learning Journal** – Latest issue published

**LATEST NEWS:** The MERLOT Journal of Online Learning and Teaching (JOLT) was a peer-reviewed, open-access, online publication that promoted scholarship in the use of the Internet and web-based multimedia resource in higher education.

The MERLOT community is now joining with the Online Learning Consortium (OLC – formerly Sloan-C) to expand scholarly research in the field of online education, with a merger of the Journal *Online Learning* (formerly JALN) and the *Journal of Online Learning and Teaching* (JOLT). Further information is available at Online Learning Consortium [online] and available at [http://onlinelearningconsortium.org/read/online-learning-call-papers/](http://onlinelearningconsortium.org/read/online-learning-call-papers/) [accessed 26 June 2017]

**Papers in this latest issue of Online Learning Journal incl.**

This issue of OLJ explores several important themes related to online teaching and learning including faculty, student, and institutional concerns:

**Faculty, Professional Development and Online Teaching**

- Academic leaders can better implement institutional strategic plans to promote online programs if they understand faculty perceptions about teaching online. An extended version of a model for technology acceptance, or TAM2 (Venkatesh & Davis, 2000), provided a framework for surveying and organising the research literature about factors that have influenced faculty’s adoption of online delivery methods for courses and their willingness to continue to teach online. This paper presents the results of a synthesis of 67 empirical studies about faculty teaching online published between 1995 and 2015, using TAM2 constructs as an organizing framework. This validate model provided a lens for understanding research about faculty perceptions of the user-friendliness and ease of use of technology for online course delivery, as well as the overall experience of teaching online. Studies in this review revealed concerns among faculty regarding their perceived barriers to student success in online classes, uncertainty about their image as online instructors, technical support needs, and their desire for reasonable workload and manageable class enrolments in online classes.

**Keywords:** online faculty; online teaching; Technology Acceptance Model; literature review


- Although course management systems (CMSs) provide technology platforms that help faculty members adopt better techniques for teaching faculty and learning, and training contributes to faculty information technology (IT) use, many higher education faculty members do not complete CMS training programs, resulting in underuse of CMSs. Therefore, the overall purpose of this research was to address how instructor perceptions influence willingness to complete IT training on CMSs, and to discern techniques university administrators can implement to improve training completion rates and, ultimately, CMS adoption rates. The basic design of the study was a cross-sectional survey. Data were obtained from 102 public university faculty members who responded to an anonymous, web-based survey about their perceptions of the relative advantage, compatibility, complexity, trialability, and observability of their institution’s CMS. The data were analysed using multiple linear regression models. Compatibility, defined as the degree to which instructors perceive the CMS as being consistent with their existing values, past experiences, and current or future teaching needs, was statistically significantly associated with willingness to complete online and in-person CMS training after controlling for other factors. Major findings suggest that faculty training on the CMS is not “one size fits all.” If greater use of CMSs by faculty is to be achieved, university administrators should consider compatibility of teaching style with CMS adoption when developing and promoting CMS training.

**Keywords:** Higher Education Faculty Members; Course Management System; Technology Adoption; Educational Technology; Faculty Training and Development; Diffusion of Innovation Theory


- This study examined the effectiveness of three types of think aloud methods for understanding elementary teachers’ cognitive processes as they used a professional development website. A methodology combining a retrospective think aloud procedure with screen capture technology (referred to as the virtual revisit) was compared with concurrent and retrospective think aloud procedures. Elementary teachers from a large metropolitan area were assigned to one of the three think aloud conditions (N=45). Participants in the concurrent condition verbalized their thoughts while simultaneously navigating a professional development website for 20 minutes. Participants in the retrospective condition verbalized their thoughts following their 20-minute website navigation without any aids. Finally, participants in the virtual revisit condition verbalized their thoughts while viewing a screen recording of their website navigation. Think aloud protocols were analysed to determine the frequency of cognitive processes verbalized their thoughts while viewing a screen recording of their website navigation. Think aloud protocols were analysed to determine the frequency of cognitive processes verbalized by participants in each condition. The findings of this study indicated significant differences in the types of verbalizations produced by participants across the three think aloud conditions. In addition, findings reveal benefits and limitations of employing each type of think aloud method in the context of a professional development website.

**Keywords:** online learning; teacher cognition; think aloud methodology; teacher professional development.

- Institutions of higher education are struggling to meet the growing demand for online courses and programs, partly because many faculty lack experience teaching online. The eCampus Quality Instruction Program (eQIP) is an online faculty development program development to train faculty to design and teach fully online courses. The purpose of this article is to describe the eQIP (one institution’s multipronged approach to online faculty development), with a specific focus on how the overall success of the program is evaluated using surveys, analytics, and social network analysis. Reflections and implications for improving practice are discussed.

Keywords: online education; faculty development; instructional consultation; online course design

Integrating Accessibility into Online Higher Education

• Smith C E, Crocker S, and Allman T (2017) ‘Reading Between the Line: Accessing Information via YouTube’s Auto captioning, Online Learning Journal, 21(1)

- This study and discussion center upon the use of YouTube’s automatic captioning feature with college-age adult readers. The study required 75 participants with college experience to view brief middle school science videos with automatic captioning on YouTube and answer comprehension questions based on material presented auditorily and/or through the automatic captions. Participants were divided into groups and presented with the captioned videos with or without sound. The videos, which all focused on the solar system, contained low and high instances of errors within the captions. The research found that comprehension of the automatic caption text varied significantly based on how the participants viewed the videos, with significantly more errors in comprehension for the group that viewed the high error video with automatic captioning only.

Keywords: online learning; accessibility for all; deaf and hard of hearing; higher education

Online Academic Integrity


- The primary objective of this paper is to help institutions respond to the stipulation of the Higher Education Opportunity Act of 2008 by adopting cost-effective academic integrity solutions without compromising the convenience and flexibility of online learning. Current user authentication solutions such as user ID and password, security questions, voice recognition, or fingerprint identification are not infallible and may violate students’ rights to privacy or cause undue interruptions to their efforts in performing assessment tasks. Existing authentication solutions will be evaluated for their cost effectiveness in preventing fraud and cheating while ensuring learner identity and honesty. Emerging technologies in the form of biometrics, surveillance systems and predictive analytics will be examined to provide insights into the future of e-authentication for ensuring the academic integrity of online learning.

Keywords: academic integrity; online education; authentication; higher education opportunity act; academic misconduct


- Online education continues to grow, bringing opportunities and challenges for students and instructors. One challenge is the perception that academic integrity associated with online tests is compromised due to undetected cheating that yields artificially higher grades. To address these concerns, proctoring software has been developed to address and prevent academic dishonesty. The purpose of this study was to compare online test results from proctored versus unproctored online tests. Test performance of 147 students enrolled in multiple sections of an online course were compared using linear mixed effects models with nearly half the students having no proctoring and the remainder required to use online proctoring software. Students scored, on average, 17 points lower [95% CI: 14, 20] and used significantly less time in online tests that used proctoring software versus unproctored tests. Significant grade disparity and different time usage occurred on different exams, both across and within sections of the same course where some students used text proctoring software and others did not. Implications and suggestions for incorporating strategic interventions to address integrity, addressing disparate test scores, and validating student knowledge in online classes are discussed.

Keywords: online education; academic integrity; online tests; grades

Students, Community, and Online Learning
Case study methods, including observing the eLC process, using Wenger’s CoP framework to analyse institutional factors that influenced the eLC process.

Communities of practice (CoP) are a constructivist instructional strategy that helps students apply their emerging knowledge by studying design problems in authentic real-world situations. One important instructional strategy in case-based instruction is to analyse cases in small-group structure to analyse case studies in online learning environment, as well as students’ perceptions of the use of VoiceThread presentations to improve their learning of instruction design. The results show that a small group strategy has great potential help students analyse case studies and consequently enhance learning. The implications of these findings for instructional designers and online instructors are discussed.

Keywords: Community of inquiry; large classes; online discussion; protocols

- The case-based approach is a constructivist instructional strategy that helps students apply their emerging knowledge by studying design problems in authentic real-world situations. One important instructional strategy in case-based instruction is to analyse cases in small-group structure to analyse case studies in online learning environment, as well as students’ perceptions of the use of VoiceThread presentations to improve their learning of instruction design. The results show that a small group strategy has great potential help students analyse case studies and consequently enhance learning. The implications of these findings for instructional designers and online instructors are discussed.

Keywords: Instructional Design; Case Studies; Online Learning; VoiceThread

- Contact time with students is becoming more valuable and must be utilized efficiently. Unfortunately, many students attend anatomy lectures and labs ill-prepared, and this limits efficiency. To address this issue we have created an interactive mobile app designed to facilitate the acquisition and transfer of crucial anatomical knowledge in veterinary students, thereby increasing classroom and laboratory preparedness. We have found that in contrast to a traditional reading assignment, utilisation of such an app to introduce students to a subject area significantly enhanced the initial learning of anatomy and the transfer of that learned material to a related, but novel area. We propose that students using the apps were subsequently better prepared for lecture and lab, than students using the more traditional method of reading a textbook. Exposure of students to a topic prior to lecture and laboratory, using methods that students embrace, can only lead to a more efficient and better educational experience.

Keywords: Mobile web based education apps; anatomy education; tradition versus online

- After presenting a brief overview of the key elements that underpin Etienne Wenger’s communities of practice (CoP) theoretical framework, one of the most widely cited and influential conceptions of social learning, this paper reviews extent empirical work grounded in this framework to investigate online/blended learning in higher education and in professional development. The review if based on integrative research approaches, using quantitative and qualitative analysis, and includes CoP orientated research articles published between 2000 and 2014. Findings are presented under three questions: Which research studies within the online/blended learning literature made central use of the CoP framework? Among those studies identified, which ones established strong linkages between the CoP framework and their findings? Within this last group of identified studies, what do the patterns in their use of the CoP framework suggest as opportunities for future research in online teaching and learning?

Keywords: community of practice; Wenger; online and blended learning

- This study was designed to explore how the electronic learning community (eLC) process at an established stated virtual high school (SVHS) supported new and veteran online high school teachers through the communities of practice (CoP) framework. Specifically, this study focused on the institutionally-drive nature of the eLC process, using Wenger’s CoP framework to analyse institutional factors that influenced the eLC process. Case study methods, including observation, interviews, and document analysis, were used to provide a rich and
dynamic analysis of the eLC process in light of what research says about preparation and support for quality online teaching. While the institutionally-driven nature of the eLC process posed some barriers to alignment with the domain and community elements of the CoP framework, case study participants expressed that the eLC process impacted their practice and connected them to colleagues with which they could collaborate and problem solve. The use of strategies such as valuing the work of eLCs, removing barriers, and connecting the eLC process to the organisational strategy served to facilitate alignment with the CoP framework and overcome some of the potential disadvantages of an institutionally-drive eLC process.

Keywords: electronic learning community; online learning community; K-12; virtual school; community of practice


- Although scalable programs, such as online courses, have the potential to reach broad audiences, they may pose challenges to evaluating learners’ knowledge and skills. Automated scoring offers a possible solution. In the current paper, we describe the process of creating and testing an automated means of scoring a validated measure of teachers’ observational skills, known as the Video Assessment of Instructional Learning (VAIL). Findings show that automated VAIL scores were consistently correlated with scores assigned by the hand scoring system. In addition, the automated scoring technique appears to offer an efficient and reliable assessment. This study may offer additional insight into how to utilise similar techniques in other large-scale programs and interventions.

Keywords: Automated assessment; scalability; teacher education


Related Link:


The Open Education Research Hub (OER Hub)

The Open Education Research Hub (OER Hub) research the impact of open educational resources (OER) in teaching and learning practices.

OER Hub – Researching Open Education gathers research on the impact of open educational resources (OER) on learning and teaching practices. The OER Research Hubs intention is to respond to a need from the OER world for more research on which they can base their decisions. The Research Hub shares evidence that is gathered through mixed methods research including interviews, surveys, focus groups, critical incidence analysis, activity theory and analysis of learning design. Findings are likely to be of interest to a wide range of stakeholders in the education sector. The project is based at The Open University’s (OU) Institute of Educational Technology and is the OU’s flagship project for research into open education and OER.

Open Educational Resources (OER) Research Hub [online]. Further information is available at http://oerhub.net/ [accessed 26 June 2017].

Within the OER Hub there are sections on

Publications incl. research articles, book chapters and conference proceedings

Research and Outputs Incl. Academic publications, presentations, non-traditional outputs, and openly licensed data.

& Case Studies incl. examples of collaborations and activities highlighting areas of research or data analysis carried out for key clients.

Example articles/papers in the most recent Summary of Research Dissemination – May 2016 (available to download from the below mentioned link and under ‘Publications’) include:
Articles from *Open Praxis* highlighted earlier in this eBulletin, as well as


Open Educational Resources (OER) Research Hub [online]. Further information is available at http://oerhub.net/ [accessed 26 June 2017].

Related links:

Open University (OU) UK [online] and available at http://www.open.ac.uk/ [accessed 26 June 2017]

Open University (OU) UK, Institute of Education Technology [online] and available at http://www.open.ac.uk/iet/main/ [accessed 26 June 2017]

The Directory of Open Access Journals (DOAJ) –

The Directory of Open Access Journals covers all open access scientific and scholarly journals using a quality control system to guarantee the content.

The aim of the DOAJ is to increase the visibility and ease of open access scientific and scholarly journals, therefore promoting increased usage and impact.

Some key DOAJ facts (as of 26/06/2017):

- **9,426** journals
- **6,820** journals searchable at article level
- **125** countries
- **2,496,358** articles

Every month I will be highlighting a few full-text e-Journals that are currently available through the UCEM e-Library.

This month we focus on those Taylor & Francis Online / Routledge journals that we now have full subscription to and this includes access to the archive of back issues (from 1995 for those journals that have print that go back that far and to the current day) incl.

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

Please note: that these journals can be accessed (IN FULL) via the VLE e-Library, and by logging into Athens – Section 2, and by selecting Taylor and Francis Online via the Resources tab. Within Athens we also have access to IngentaConnect where UCEM subscribe to

- Corporate Real Estate Journal.

Construction Management and Economics

1. Construction Management and Economics (CME) is the leading international refereed journal that publishes original research concerning the management and economics of building and civil engineering, while also including the management of built facilities.


Example articles/papers in the most recent issue include:

- The prospects for a production management body of knowledge in business schools: response to Koskela (2017) “Why is management research irrelevant?”

- The futures of construction management research
  Harty C & Leiringer R (2017), ORCID – Connecting Research and Researchers [online]. Available at http://orcid.org/0000-0001-9037-7220 [accessed 26 June 2017], The futures of construction management
Building Research and Information

2. **Building Research and Information** (BRI) is a leading international refereed journal focused on buildings and their supporting systems. Unique to BRI is a focus on a holistic, trans-disciplinary approach to their life: planning, briefing, design, construction, occupation and use, property exchange and evaluation, maintenance, alteration and end of life. Published articles provide conceptual and evidence-based approaches which reflect the complexity and linkages between cultural, environmental, economic, social, organisational, quality of life, health, well-being, design and engineering of the built environment.

**BRI’s wide scope embraces:**

- The linkages between the built, natural, social and economic environments, with an emphasis on the interactions between theory, policy and practice: impacts on ecologies, resources (water, energy, air, materials, buildings stocks etc.), sustainable development (social, economic, environmental, and natural capitals) and climate change (mitigation and adaptation).
- The (design, technical, social, organisational, economic) performance, impacts, assessment, contributions, improvement and value of buildings, building stocks and related systems.
- The supply chain capabilities to innovate, design, create, maintain and improve the performance of both buildings and products.
- Changing demands and aspirations for architectural design, development and property.
- Formulation of public policy; research, academic and innovation capabilities; organisational structures and networks; engagement between research users, policy makers and practitioners to effectively support the above scope and objectives.

**Taylor and Francis, Building Research and Information [online].** Available at [http://www.tandfonline.com/toc/rbri20/current](http://www.tandfonline.com/toc/rbri20/current) [accessed 26 June 2017]

Example information/ research articles/papers in the most recent issue:

**Editorial:**

- **Climate policies for buildings**


  **ORCID** – Connecting Research and Researchers [online] - Richard Lorch [http://orcid.org/0000-0002-7501-8825](http://orcid.org/0000-0002-7501-8825) [weblinks correct as at 26 June 2017]

**Research:**

- **Simulation-based daylighting analysis procedure for developing urban zoning rules**

ORCiD – Connecting Research and Researchers [online] - Emmanouil Saratsis http://orcid.org/0000-0003-4293-4189, Timur Dogan http://orcid.org/0000-0003-0749-8465 & Christoph F. Reinhart http://orcid.org/0000-0001-6311-0416 [weblinks correct as at 26 June 2017]

- Assessment of water penetration risk in building facades throughout Brazil

- Embodied energy and cost of building materials: correlation analysis

- Life-cycle assessment of post-disaster temporary housing

Information

- Multidisciplinary research: should effort be the measure of success?

ORCiD – Connecting Research and Researchers [online] - Richard Buswell http://orcid.org/0000-0003-0613-9516, Lynda Webb, Val Mitchell http://orcid.org/0000-0003-1020-2426 & Kerstin Leder Mackley [weblinks correct as at 26 June 2017]

- Model-predictive control for non-domestic buildings: a critical review and prospects

- Challenging the assumptions for thermal sensation scales

ORCiD – Connecting Research and Researchers [online] - Marcel Schweiker http://orcid.org/0000-0003-3906-4688, Xaver Fuchs http://orcid.org/0000-0002-7690-8969, Susanne Becker http://orcid.org/0000-0002-5681-4084, Masanori Shukuya http://orcid.org/0000-0003-2777-4375, Mateja Dovjak http://orcid.org/0000-0003-4929-0232, Maren Hawighorst http://orcid.org/0000-0002-6859-6053 & Jakub Kolarik http://orcid.org/0000-0002-3872-1802 [weblinks correct as at 26 June 2017]

Please note: that this journal can be accessed (IN FULL) via the VLE e-Library, and by logging into Athens – Section 2, and by selecting Taylor and Francis Online via the Resources tab.

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Journal of Property Research

3. *Journal of Property Research* welcomes original papers on any area of real estate investment and development. These may be theoretical, empirical, case studies or critical literature surveys.

There are two major areas of focus:

- Property investment and finance. This covers topics such as the characteristics of property as an investment class, forecasting of markets and property portfolio construction. Much of this research will be an application to property of techniques developed in other investment markets.

- Land development. This covers a wide range of issues surrounding the development and redevelopment of property. The focus may be financial, economic or environmental; urban or rural; public or private sector.
Example Latest articles/papers in the most recent issue include:

- Do ‘foreigners’ pay more? The effects of investor type and nationality on office transaction prices in New York City
  ORCiD – Connecting Research and Researchers [online] - Steven Devaney http://orcid.org/0000-0002-1916-2558 & David Scofield [weblinks correct as at 6 June 2017]

- The impact of temporary uses on property prices: the example of food trucks
  ORCiD – Connecting Research and Researchers [online] - Rotimi Boluwatife Abidoye http://orcid.org/0000-0001-9049-9527 & Albert P. C. Chan [weblinks correct as at 21 June 2017]

- Modelling property values in Nigeria using artificial neural network
  ORCiD – Connecting Research and Researchers [online] - Rotimi Boluwatife Abidoye http://orcid.org/0000-0001-9049-9527 & Albert P. C. Chan [weblinks correct as at 21 June 2017]

- The role of task complexity in valuation error analysis in a developing real estate market

Please note: that this journal can be accessed (IN FULL) via the VLE e-Library, and by logging into Athens – Section 2, and by selecting Taylor and Francis Online via the Resources tab.

Corporate Real Estate Journal

Please note: that this journal can be accessed (IN FULL) via the VLE e-Library, and by logging into Athens – Section 2, and by selecting IngentaConnect via the Resources tab.

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.

Capturing expertise which all too often remains anecdotal and putting into a learned format that can be applied by corporate real estate professionals, each article is peer-reviewed to ensure it provides not only strategic-level thinking but all the ‘nuts and bolts’ detail needed to put that strategy into practice, providing a connection that is often missing. Crucially, the Journal puts corporate real estate in terms the C-Suite can relate to, helping professionals demonstrate the value that corporate real estate can and does contribute towards business objectives and the bottom line, and make can impact in the boardroom.

Example articles/papers in the most recent issue include:

Editorial

- Corporate real estate’s influence on the employee experience

Practice articles
When I started my role as the UCEM Digital Resource Manager, I catalogued over 2000 e-Journal titles onto the A-Z Directory that can be accessed through the VLE e-Library.

Whilst cataloguing I was wondering how many of these e-Journals are actually being used within ‘Recommended Reading’ or ‘Study Material’ development by Tutors? Therefore, in each monthly e-bulletin I will be highlighting a few e-Journals that are available and accessed through the UCEM Athens gateway as a current awareness service.

Please Note: the below e-Journals are available in Full-Text copies

The following journals have been reviewed thus far, i.e.
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<td>Journal of Real Estate Portfolio Management</td>
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**Special issues:**

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<td>International Focus [07/13]</td>
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<td>Research [10/13]</td>
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<td>Sustainability [12/13]</td>
<td>Research and Innovation in open, distance and flexible education [07/14], [03/15]</td>
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**Lucy’s searching top tips** – The reason why I am listing the topics covered and some of the journals reviewed each month is to provide a quick reference list and tool. Should you wish to access journals relating to a specialist area or journal, you i) access the latest issue of the e-Bulletin (available via the VLE e-Library and under section 6 – UCEM Published Material), ii) Have a quick browse down the list and identify your specialist journal or focus area. iii) In the case of Special issues, note the month that covered that topic. iv) go back to the VLE e-Library page and v) download the appropriate monthly e-bulletin which specialises in that subject area. 😊

To access the Directory of e-Journals, visit the VLE e-Library and scroll down to Section 3. Note: to access these journals in full online, you will need to log-in to Athens.

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The UCEM VLE e-Library is currently building on its’ e-Book collection, available through Athens and by clicking on Dawson Books (listed within the Resources section). It is hoped that over time, UCEM will provide greater access to e-Books over hard-copy versions in order to provide the students with greater flexibility and access to a wide range of publications.

Often books may have an excellent chapter covering a topic you wish to discuss, and this can prove expensive in purchasing and posting, when only a small section of the book is relevant. Therefore, drawing attention to an e-Book via the e-Library and recommending they read a particular chapter is much more efficient and effective and allows UCEM to build their library as well as providing a wider range of publications for students to access and Tutors to use in supplementing their Teaching and Learning Materials.

Please note: By visiting the VLE e-Library and the various digital subscriptions that UCEM currently holds, students and tutors can gain access to a wealth of additional online material and catalogues incl. a range of reference e-books available within the construction and real estate sectors. For example, IHS Information Services and the Construction Information Service (accessible via Athens) holds a vast array of eBooks. You can also access RICS published material incl. eBooks via ISURV (accessed via Section 5 of the VLE e-Library).

Six books that are currently available are as follows:

1. The Battle for Open: How openness won and why it doesn’t feel like victory
2. The new landscape of mobile learning: Redesigning education in an app-based world
3. Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education
4. Studying at a Distance
5. Rethinking Pedagogy for a Digital Age, 2nd edition
6. ADDING SOME TEC-VARIETY: 100+ Activities for Motivating and Retaining Learners Online

The first and sixth book, as well as the second ‘book review’ mentioned above are freely available online. However, the other three have been purchased by UCEM and are available, as e-Books, within the VLE e-Library and via Athens and Dawson Books. Once you have accessed DawsonEra, if you click on ‘eBook Catalogue’ within the top toolbar, this contains UCEM purchased eBooks. Alternatively, you can search for the title within the Advanced Search engine.

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1. The Battle for Open: How openness won and why it doesn’t feel like victory.


**ISSN:** 2304-070X, International Council for Open and Distance Education (ICDE)

Has the openness movement won the battle to transform itself into a mainstream phenomenon in higher education? If the answer is yes, does this mean that the disputes with other educational technological solutions, in particular restricted, have definitely ended? Or rather is it only the beginning of a long confrontation to take centre stage in a digital ecosystem that is increasingly more nuanced, where the number of actors keeps growing and the limits on what is open is ever more diffuse?
In this new book, the author Martin Weller attempts to find answers to these questions. To do so, he introduces a group of quite varied subjects on evolution and the current state of higher education. As such, his contribution turns into an authentic manual for everyone who has an interest in the digitization of education.

Keywords: Open access; open education; OER.

2. The new landscape of mobile learning: Redesigning education in an app-based world -


This is a book review on The new landscape of mobile learning: Redesigning education in an app-based world, by editors Charles Miller and Aaron Doering. This is an edited book, but one for which the editors sought out specific authors to write about their experiences and expertise on mobile learning. One of Miller and Doering’s goals is to promote greater thinking about mobile learning through the understanding that learning is a complex process built from pedagogical foundations that integrate social interactions with technology. The editors argue that a fundamental aspect to mobile learning is mobility, which is the ability to freely move about and collaborate in an authentic environment in which learners gain insight and construct knowledge. The authors try to address problems in mobile learning and put forth solutions, but this also highlights the fragmented problems of mobile learning as the book in itself is fragmented. Instead of treating mobile learning as its own system or field, it becomes evident that one should be describing mobile learning as mobile integration and explores how to use mobility in the everyday learning context. From the perspective of mobile integration, this book is very practical as the authors did an outstanding job of providing information about the steps of integrating mobile devices into specific areas to assist or augment learning.

3. Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education

By Moore, C., (c2017). *Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education. IGI Global*

The integration of technology has become an integral part of the educational environment. By developing new methods of online learning, students can be further aided in reaching goals and effectively solving problems. *The Handbook of Research on Innovative Pedagogies and Technologies for Online Learning in Higher Education* is an authoritative reference source for the latest scholarly research on the implementation of instructional strategies, tools, and innovations in online learning environments. Featuring extensive coverage across a range of relevant perspectives and topics, such as social constructivism, collaborative learning and projects, and virtual words, this publication is ideally designed for academicians, practitioners, and researchers seeking current research on best methods to effectively incorporate technology into the learning environment.

4. Studying at a Distance -

By Talbot, C., (01/08/2010), Publisher: Open University Press


This essential guide provides practical help and support for those who have not previously studied at a distance and is ideal for students returning to study after a break. It covers fundamental issues such as motivation, goal setting, time management and coping strategies. Additional coverage in this third edition includes: specific information on the use of new technologies in distance learning; detailed coverage of referencing, citation and plagiarism; description of using mind maps and other techniques for planning and writing essays or reports; support for disabled students, particularly those with dyslexia; and, an expanded further resources section.
5. Rethinking Pedagogy for a Digital Age –
Edited by Beetham, H., & Sharpe, R., Publisher: Routledge
Through a critical Discussion of the issues surrounding the design, sharing and reuse of learning activities, the second edition of ‘Rethinking Pedagogy for a Digital Age’ examines a wide range of perspectives on effectively designing and delivering learning activities to ensure that future development is pedagogically sound, learner-focused, and accessible.
Keywords: Education; Pedagogy; e-Learning

6. ADDING SOME TEC-VARIETY: 100+ Activities for Motivating and Retaining Learners Online

Adding Some TEC-VARIETY by Curtis J. Bonk and Elaine Khoo
As this book states, “Motivation is central to all things human” and Online teaching and learning are no different.
The authors of this FREE ONLINE BOOK propose the TEC-VARIETY framework as a solution to the lack of meaningful engagement. It can shift learners from nearly comatose states to actively engaged ones. Adding Some TEC-VARIETY helps instructors focus on how to motivate online learners and increase learner retention. It also is a comprehensive, one-stop toolkit for online instructors to inspire learners and renew their own passion for teaching. Using 10 theoretically driven and proven motivational principles, TEC-VARIETY offers over 100 practical yet innovative ideas based on decades of author experience teaching in a variety of educational settings.

Source: Adding Some TEC-VARIETY by Curtis J. Bonk and Elaine Khoo [online]. Available at http://tec-variety.com/ [accessed 26 June 2017]

Please note: The authors have made an online version of this work available under a Creative Commons Attribution-Non-commercial-Share Alike 3.0 License; for details, please see http://creativecommons.org/licenses/by-nc-sa/3.0/us/ [accessed 26 June 2017]. The e-book PDF can be accessed through the book homepage [online]. Available at http://tec-variety.com and http://tec-variety.com/freestuff.php [accessed 26 June 2017]

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The Directory of Open Access Books (DOAB) –
The primary aim of DOAB is to increase discoverability of Open Access books. Academic publishers are invited to provide metadata of their Open Access books to DOAB. Metadata will be harvestable in order to maximize dissemination, visibility and impact. Aggregators can integrate the records in their commercial services and libraries can integrate the directory into their online catalogues, helping scholars and students to discover the books. The directory is open to all publishers who publish academic, peer reviewed books in Open Access and should contain as many books as possible, provided that these publications are in Open Access and meet academic standards.

Some key DOAB facts (as of 26/06/2017):
- 8148 Academic peer-reviewed books from
- 216 publishers


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Latest book and journal titles

Latest book titles from

**Elsevier** is a world-leading provider of information solutions that help you make better decisions, deliver better care, and sometimes make ground-breaking discoveries in science, health, and technology. Built Environment including Architecture, Building and Construction, and Property and Real Estate [online]. Further information is available at [www.elsevier.com](http://www.elsevier.com) [accessed 26 June 2017]

**Palgrave Macmillan** - From award-winning research which changes the world to textbooks and study guides which educate and inspire, Palgrave Macmillan publish across the humanities, social sciences and business for academics, students, professionals and librarians worldwide. Palgrave Macmillan [online]. Further information is available at [www.palgrave.com/gb/](http://www.palgrave.com/gb/) [accessed 26 June 2017]

**Taylor & Francis/Routledge** – T&F (an informa business) is a world famous name in academic and professional books, journals and online resources relating largely to the humanities, social sciences, the Built Environment and Sustainability. Visit Taylor & Francis online @ [www.tandfonline.com](http://www.tandfonline.com) [accessed 26 June 2017]

**Taylor & Francis Open and Routledge Open** - Taylor & Francis and Routledge currently publish a number of pure open access journals, with no subscription content. The articles in these journals receive both rigorous peer review and expedited online publication [online] and available @ [www.tandfonline.com/openaccess](http://www.tandfonline.com/openaccess) [accessed 26 June 2017]

**Wiley** is the international scientific, technical, medical, and scholarly publishing business of John Wiley & Sons, with strengths in every major academic and professional field and partnerships with many of the world’s leading societies. For more information, please visit [www.wiley.com](http://www.wiley.com) [accessed 8 May 2017] and [http://eu.wiley.com/WileyCDA/](http://eu.wiley.com/WileyCDA/) [accessed 26 June 2017].

‘Wiley’ Online Library hosts the world’s broadest and deepest multidisciplinary collection of online resources covering life, health and physical sciences, social science, and the humanities. It delivers seamless integrated access to over 6 million articles from over 1500 journals, over 16,000 online books, and hundreds of reference works, laboratory protocols and databases. Further information is available online at [http://onlinelibrary.wiley.com](http://onlinelibrary.wiley.com) [accessed 26 June 2017]

**Wiley Open Access** [online]. Further information is available at [http://olabout.wiley.com/WileyCDA/Section/id-406071.html](http://olabout.wiley.com/WileyCDA/Section/id-406071.html) [accessed 26 June 2017]


[websites correct as at 8 May 2017]
© Guidance:

“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: it 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”.


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 the 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.

The Copyright Licensing Agency (CLA) - www.cla.co.uk [accessed 26 June 2017]

CLA Title search tool
The CLA Title Search 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.

UCEM has a CLA ‘Independent Higher Education Photocopying and Scanning Licence’

CLA Higher Education, Check Permissions @ www.cla.co.uk/higher-education-licence [accessed 26 June 2017]
Further guidance on Copyright and Digital Copyright incl.

- What is copyright? @ www.cla.co.uk/what-is-copyright [accessed 26 June 2017]
- When does copyright arise?
- What does copyright protect?
- Who owns copyright?
- Joint ownership of copyright
- What rights does a copyright owner have?
- How long does copyright lasts?
- Copyright infringement
- Remedies for copyright infringement
- Copyright exceptions
- Obtaining clearance to use copyright material
- CLA and copyright licences
- Related organisations and links @ www.cla.co.uk/related-organisations, and www.cla.co.uk/what-is-copyright [accessed 26 June 2017]

5 Ways to find images for your website

The author of this article highlights the point that finding good images online is fairly easy but finding images that are licensed for reuse can be hard.

It is often difficult to know when it’s ok to reuse an image that has been published online and when it’s not. The internet may be a global network but each country has different copyright laws and there are not simple best practice rules applicable to everyone.

Within this blog, the author takes a look at a best practice example of online image attribution, some of the problems that face anyone trying to work out if they can reuse an image online and five ways to find images licensed for reuse, including:

- The Creative Commons search tool
- Museums, Libraries and Archives
- Getty images
- Gratisography
- Taking your own photo!

Patrick, E., Online Information Manager at CILIP, the Chartered Institute for Library and Information Professionals, 18th September, 2014, 5 ways to find images for your website [online]. Further information is available at http://www.cilip.org.uk/cilip/blog/5-ways-find-images-your-website?utm_source=Communicator_membership_list&utm_medium=Email&utm_content=Untitled22&utm_campaign=Weekly+News+from+CILIP%2c+18+Sept+2014 [accessed 26 June 2017]
What is a copyright work? Any project that involves the creation of new “works” such as research, plans, photographs, diagrams, models, plans or charts – as well as the building itself – will need to consider who owns the copyright in those works.

Who owns the copyright? The first owner of copyright in any work is the author or, if any employee, his or her employer. More than one person can be an author, whether they have worked together or separately. It is also possible for more than one person to own the copyright.

Assignment or Licence? Although it is possible to agree to transfer – or assign – the ownership of copyright, this is rare in the construction and development industry. Consequently, architects, planners and surveyors will each own copyright in the works they produce and have the power to prevent others from using their work at all, or for any purposes other than expressly permitted, as well as controlling permitted uses.

What should a licence cover? Permission to use a copyright work is granted in a licence. This can either be a separate document or included as part of a more wide-ranging contract. The licence sets out exactly who can do what with the relevant copyright work, so it is important that the scope is wide enough to cover everything that may be needed for the project, and, subsequently, permission is given to all people or entities who will need it.


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Useful online resources

1. Construction Information and Guidance available through the HSE - Within the Health and Safety Executive (HSE) website, there is a wealth of information surrounding Construction.

   Lucy's Top Searching Tips

   By typing in ‘Construction’ within the search engine at the top of the website @ www.hse.gov.uk [accessed 26 June 2017] a vast array of ‘subject fields’ are identified incl.

   Construction: Within the ‘Construction’ section of the HSE website, there is further information on – new to health and safety; safety topics; health topics; Construction Design and Management; Leadership and worker involvement toolkit; Migrant workers in construction; Worker engagement; current campaigns; Managing health risks (COHME); Construction FAQs; Construction news including news and updates about health and safety in the construction industry & Info net including RSS feeds and Construction e-bulletins to sign up to.

   Health and Safety in the Construction Industry - http://www.hse.gov.uk/construction/


   [N.B. Websites accessed 26 June 2017]
(formerly British Council of Shopping Centres (BCSC))

BCSC (British Council of Shopping Centres) was the professional body for retail property – an authoritative voice for UK retail-led regeneration and for the management of and investment in shopping places. However, BCSC is changing and is now Revo.

Revo supports the people and businesses involved in the diverse world of retail property and placemaking to thrive and prosper – energizing and driving progress for our community. As stated within their new website:

**A broader remit** – Revo are now embracing all kinds of retail property and all kinds of stakeholders. This diversity makes Revo uniquely placed to champion real improvements and positive change for this sector

**Working together** – Revo intend to harness the collective experience, as well as the influence and resources of their network to challenge and shape this industry for the future

**The influencers** – Revo are there to help shape the future of the retail property and placemaking industry. They will be engaging with even more senior figures in key government departments to raise awareness of Revo locally and nationally.

**The network** – Who you know is just as important as what you know. Revo members have a really broad base, with specialisms and experience of all kinds. Revo aim to create more relevant and accessible business and career development opportunities and make sure the industry has the right people, with the right skills.

**The benchmark** – Revo sets standards, recognizes achievement and sparks ideas. A new educational programme will meet the needs of industry professionals throughout their careers, and there will be a renewed focus on apprenticeships. Revo are also expanding their Awards Programme to better reflect the diversity of the industry.

**The trend spotters and thought leaders** – Revo intends to stay ahead of the curve, prepared for and embracing the future. They will analyze trends, interpret market data and organize focused working groups and think tanks run by true experts in their fields. They will produce pioneering research and insight papers, and establish Revo as the place to come for authoritative commentary.

Having a broad message membership means that the Revo community stay well informed about the large range of issues affecting property owners, developers, investors, asset managers, retailers, consultants, shopping centre managers and public sector employees and can utilize this network to develop solutions to many of the industry’s current challenges.

- **Revo Insights** – Revo conduct innovative research into new trends and are the go-to organization for authoritative commentary and insight on industry and political issues. Revo produce thought-provoking content and engaging communications, making sense of the future of our community. Information contained within incl. Latest research and quarterly retail briefings, Industry reports, Guidance notes, Opinion and Trend Bites. Revo Insights [online]. Available at [https://www.revocommunity.org/insights](https://www.revocommunity.org/insights) [accessed 26 June 2017]

- **Revo Education** – Revo are setting standards, recognizing achievement and sparking ideas. Their new educational programme will meet the needs of industry professionals throughout their careers, and they have a renewed focus on apprenticeships. Revo Education [online]. Available at [https://www.revocommunity.org/education](https://www.revocommunity.org/education) [accessed 26 June 2017]

**Source:** British Council of Shopping Centres (BCSC), now Revo - Retail. Property. Community [online]. Available at: [https://www.revocommunity.org/](https://www.revocommunity.org/) [accessed 26 June 2017]

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3. **The National Building Information Modelling (BIM) Library** -

Introducing NBS

NBS (trading name of RIBA Enterprises Ltd, and wholly owned by the Royal Institute of British Architects (RIBA)) is committed to offering distinctive, innovative specification and information solutions to construction industry professionals. They have produced specification for over 40 years, including the recognised national standard specification system for the UK. Their NBS specification products cover building construction, engineering services and landscape design. They also produce a range of information products, including The National BIM Library and The Construction Information Services (which UCEM subscribes to).

Lucy’s Top Searching Tips

You will note within the toolbar at the top of NBS that there are sections entitled, ‘Services’, ‘Knowledge’ and ‘Support’:

Services – NBS ensure construction industry professionals have access to the right information at the right time in the right way. NBS’s specification and collaboration, building product and construction knowledge tools and services enables delivery of outstanding projects in an informed, collaborative and efficient way. NBS services are for – Architecture; Building Services Engineering; Structural Engineering; Landscape Architecture; Small Projects; BIM Projects; For Enterprise; For Local Authorities; and Building Product Manufacturers.

Knowledge – NBS’s subject specialists author a wide range of interesting articles that help you make informed decisions and deliver the best projects for your clients

Topic areas include
• Building Information Modelling (BIM),
• Design and Specification,
• Construction Products,
• Contracts and Law,
• Plan of Work and Project Administration,
• Standards and Regulations,
• Sustainability,
• Health and Safety,
• Additional topics incl. Classification; Climate change; flooding; Green walls; Heating; IFC; Landscape; PAS 1192-2; Procurement; RIBA Plan of Work; Roofing; Students; Tendering; and Ventilation
• Construction products incl. Insulation; Lighting; and Timber
• Building types incl. Historic buildings; Museums; and Sports grounds
• Content type incl. Book extract; Event preview/review; Publication Index; Surveys; and Video
• Content series incl. Ecobuild 2016; Are you BIM ready? The Construction Act – One year after; Climate change adaptation in buildings; and Flood mitigation solutions in buildings
• NBS Services incl. NBS BIM toolkit; NBS Building; NBS Create; and NBS National BIM Library
• NBS Reports incl. National BIM Report; and NBS National Construction Contracts and Law Survey

N.B. Within each topic area has further information incl. Articles, Reports, VIDEOS, Recommended reading and Bibliographies.

Source: NBS (2017),

NBS National BIM Library [online] and available at: https://www.thenbs.com/services/our-tools/nbs-national-bim-library,
& NBS homepage [online] and available at https://www.thenbs.com/,
& NBS Knowledge [online] and available at http://www.thenbs.com/topics/index.asp [accessed 26 June 2017]

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4. **Sustainability in Facilities Management** – A useful online tool and resource pool

The Sustainability in Facilities Management (Sustainability in FM) web site provides a practical, easy to use first point of contact for Facilities Managers where best practice case studies on sustainability topics can be found. All case studies are vetted to provide relevance to Facilities Management, practically and absence of marketing spin. The web site also provides Facilities Managers with background information on the most common sustainability issues and links out to recommend centres of excellence.

“Knowledge Transfer Partnerships” (KTP) are a Technology Strategy Board programme set up to improve competitiveness and productivity through the better use of knowledge, technology and skills. The Sustainability in FM research project is a partnership between the British Institute of Facilities Management (BIFM) and the University of Reading under this part government funded scheme.

The aim of the project is to develop practical tools for the FM professional so that they can improve the implementation and management of sustainable practices in the working environment.

**Please note:** To register on Sustainability in FM is free but to access the full content of the site registration is required.

Sustainability in Facilities Management (FM) – A useful online tool and resource pool [online] and available at [http://www.sustainabilityinfm.org.uk/home](http://www.sustainabilityinfm.org.uk/home) [accessed 26 June 2017]

5. **RICS** (Royal Institution of Chartered Surveyors)

- **RICS (Royal Institution of Chartered Surveyors)** is an independent body committed to setting and upholding the highest standards of excellence and integrity in land, property and construction -

  Explore RICS @ [http://www.rics.org/uk/](http://www.rics.org/uk/) [accessed 26 June 2017] is a ‘keyword’ section of the RICS website and provides direct links through to information relating to the following topic areas/keywords incl.

  - Environment, • Geomatics, • Minerals & waste, • Planning & development, • Rural, • Arts & antiques, • Commercial property, • Dispute resolution, • Facilities management, • Machinery & assets, • Management consultancy, • Residential property, • Valuation, • Building control, • Quantity surveying & construction, • Project management, • Building surveying, • BIM, • Infrastructure, • Measurements, and • Party walls.

Royal Institution of Chartered Surveyors (RICS), 2016, **Explore RICS** and **RICS (Royal Institution of Chartered Surveyors)** [online]. Available at [http://www.rics.org/uk/](http://www.rics.org/uk/) [accessed 26 June 2017]

**RICS Library Online catalogue** – 2500 electronic documents selected and catalogued, plus books, magazine articles, law reports and transcripts [online]. Available at [http://unicorn.rics.org/uhtbin/cgisirsi.exe/0/0/0/60/69/X](http://unicorn.rics.org/uhtbin/cgisirsi.exe/0/0/0/60/69/X) [accessed 26 June 2017]

**RICS Property Glossary** of terms and acronyms used across the wide range of specialisms covered by chartered surveyors [online]. Available at [http://www.rics.org/uk/knowledge/glossary](http://www.rics.org/uk/knowledge/glossary) [accessed 26 June 2017]

6. **Chartered Institute of Building** ([CIOB] Insight)

CIOB Insight – CIOB’s aim is to advance construction management education and to give access to that knowledge so that it can be shared and added to. CIOB do this in a number of ways and via the above mentioned link you can gain access to CIOB views on leading issues within the industry, access to special interest groups and information contained within their library, along with data they create through their membership and beyond.

Sections include:

• **Ambassadors** and informed about the CIOB ambassador programme

• **Magazines** – including information and access to *Construction Research and Innovation (CRI)*, *The Construction Manager Magazine (CM)*, and *Global Construction Review (GCR)*. [CIOB Magazine](https://www.ciob.org/media-centre/magazines) [online]. Available @ [https://www.ciob.org/media-centre/magazines](https://www.ciob.org/media-centre/magazines) [accessed 26 June 2017];

• **CIOB Library** offering a collection of construction-related resources

• **Special Interest groups** incl. **Architecture & Surveying; Building Standards & Performance; Conservation, Adaptation & Refurbishment; Contracts & Dispute Resolution; Digital Technologies in Construction; European Projects; Facilities Management; Health & Safety; Innovation & Research Panel;** and **Time Management**. [CIOB, Special Interest](https://www.ciob.org/special-interest) [online]. Available @ [https://www.ciob.org/special-interest](https://www.ciob.org/special-interest) [accessed 26 June 2017]

• **Research** – The CIOB research section is freely available ([Note: but its title, source and date of publication must be acknowledged if cited. Any content, including data and analysis, must also be reported accurately and not used in a misleading context]. [CIOB Research](https://policy.ciob.org/research/) [online]. Available @ [https://policy.ciob.org/research/](https://policy.ciob.org/research/) [accessed 26 June 2017]. Archived research that CIOB has undertaken incl. *The Changing Role of Women in Construction; The Cowboy Builder: A Public Perspective; Innovation in Construction; Occupational Stress in Construction; UK Construction Report on Sustainability; Managing the Risk of Delayed Completion*, and others. Please note the CIOB’s latest research is covered earlier in this e-bulletin.

Chartered Institute of Building (CIOB), 2017, *Insight* [online]. Available at: [https://www.ciob.org/insight](https://www.ciob.org/insight) [accessed 26 June 2017]

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7. **Inclusive Design Hub for the Built Environment**

This Inclusive Design Hub for the Built Environment is a project of The Design Council who champion great design that improves lives and makes things better.

This Hub is a collection of the latest guidance and best practice on inclusive design in the Built Environment and has the following sections that can be searched upon incl.

• **Sectors**: Culture & Leisure; Transport; Education; Housing; Healthcare; Commercial; Heritage; Government; and Retail

• **Scale & Setting**: Urban; Public realm; Neighbourhood; Single Building; and Rural

• **User Journey**: Circulation and navigation; Visitor facilities; Entry and Exit; Arrival; Pre-arrival and Information

• **Resource Type**: Guidance and Interpretation; Technical resources; Case studies and good practice; and Regulation and legislation

• **Inclusion Type**: Physical inclusion; Visual inclusion; Cognitive inclusion; Social inclusion; Auditory inclusion; Demographic inclusion

• **Development phase**: Design; Management and Maintenance; Planning; Consultation and Engagement; Construction and Inception and definition.


**Source:** The Construction Information Service (CIS) - *Briefing (UK – November 2014)* [online]

**Please note:** CIS can be accessed through the Athens gateway [http://www.openathens.net/](http://www.openathens.net/) and by selecting ‘IHS Technical Indexes Info4Education’. The Briefing can be downloaded from the CIS homepage.

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8. Building Research Establishment (BRE)

BRE is a world leading, multi-disciplinary, building science centre with a mission to improve buildings through research and knowledge generation.

Through the BRE Group companies BRE and BRE Global, they provide a complete range of consultancy, testing, certification, commissioned research and training services covering all aspects of the built environment and associated industries.

Useful web links provide useful information resources incl.

- **News and Information** [online] and available @ https://www.bre.co.uk/media-centre.jsp [accessed 26 June 2017]

- **Case Studies** [online] and available @ https://www.bre.co.uk/podpage.jsp?id=1744 [accessed 26 June 2017] incl.
  - BREEAM case studies;
  - Building Investigations case studies;
  - Healthcare case studies;
  - Innovation case studies;
  - Membership and secretariat case studies;
  - Sustainable, materials, buildings, communities and businesses case studies;
  - Timber case studies; Toxicity; and
  - Bioaccumulation, environmental risk case studies.

- **Projects & Reports** [online] and available @ https://www.bre.co.uk/podpage.jsp?id=1752 [accessed 8 May 2017] incl.
  - Visual alarm devices – their effectiveness in warning of fire;
  - The cost of poor housing to the NHS Briefing Paper;
  - Characterising the smoke produced from modern materials and evaluating smoke detectors;
  - Cause of false fire alarms in buildings;
  - Providing better estimates of solid wall insulation savings;
  - Domestic energy fact file;
  - Energy use in homes;
  - Fires in Enclosed Car Parks;
  - Photovoltaics field trial;
  - BeAware research project;
  - A Review of Part B of the Building Regulations;
  - Construction Resources and Waste Roadmap;
  - Improving Sound Insulation in Homes;
  - Sustainable Construction – Simple ways to make it happen;
  - Internet enabled technologies in buildings;
  - Summer Time adjustments on energy use;
  - Carbon Detectives; Well-being and materials;
  - Project Aether: Innovating to reduce the carbon footprint of cement production;
  - BRE and University of Bath;
  - The National Refurbishment Centre;
  - Fire at Rosepark Care Home;
  - Controlling Water use of trees;
  - Video – staff room fire reconstruction; Design for Future Climate;
  - Sitting rooms to cities: refurbishing the existing stock;
  - West London Property and Asset Management Programme;
  - Après – Case Study; ECOHeat 4 Cities;
  - Long term initiatives for flood risk environments;
  - S-IMPLER;
  - The SMARTeST FP7 Project;
  - Carbon Reduction Measures in the Higher Education sector;
  - Sustainable Estates Options Appraisal Methodology (SEOAM);
  - Ma TriD projects;
  - IEE Project EPISCOPE; and
  - 1968 – Ronan Point gas explosion;
  - 1979 – Woolworths Manchester fire;
  - 1981 – Stardust disco;
  - 1985 – Bradford City football ground;
  - 1996 – Channel Tunnel;
  - 2004 – Rose Park care home;
  - 2004 – Bethnal Green Road;
  - 2007 – Penhallow Hotel; and
  - 2007 – Cutty Sark.

- **BRE: in print and on tv** [online] and available @ https://www.bre.co.uk/page.jsp?id=3253 [accessed 26 June 2017]

- **Building4Change** – The online magazine from the BRE Trust [online] and available @ https://www.bre.co.uk/page.jsp?id=3168 [accessed 26 June 2017]

- **Sustainability** [online] and available @ https://www.bre.co.uk/page.jsp?id=1766 [accessed 26 June 2017]

- **Research and Innovation** [online] and available @ https://www.bre.co.uk/page.jsp?id=1849 [accessed 26 June 2017]

- **BRE Services A–Z** [online] and available @ https://www.bre.co.uk/atoz.jsp [accessed 26 June 2017]

Building Research Establishment (BRE) [online] and available @ https://www.bre.co.uk/index.jsp [accessed 26 June 2017]

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9. **Global Research Gateway:** CBRE’s online resource for Real Estate Research -

- CBRE, the global leader in real estate services and investment.

Every day, in markets around the globe, CBRE apply insight, experience and resources to help clients make informed real estate decisions. Every year, they complete thousands of successful assignments across a wide range of markets and real estate service lines.
CBRE’s deep experience and expertise allows them to paint a precise picture of global commercial real estate conditions and trends. It allows them to recognize opportunities quickly and take advantage of them.

CBRE’s mission is to deliver consistently superior results by:
- Always putting the client first
- Bringing the best talent to every assignment
- Collaborating across markets and service lines
- Capitalizing on the depth of our market information and insight

CBRE has a **Global Research Gateway**: Your source for Real Estate Research [online]. Available at [https://researchgateway.cbre.com/](https://researchgateway.cbre.com/) [accessed 26 June 2017]

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**10. COPAC** –

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 [online]. Further information is available at [www.copac.ac.uk](http://www.copac.ac.uk) [accessed 8 May 2017]

Researchers and educators use COPAC to save time in their research, to quickly and easily discover and locate resources, to check documents details, review materials etc. Information professional trust COPAC to give them access to a unique pool of high-quality bibliographic information.

COPAC is a Joint Information Systems Committee (JISC) service, provided for the UK community on the basis of an agreement with Research Libraries UK (RLUK). The service uses records supplied by RLUK members, as well as an increasing range of specialist libraries with collections of national research interest.

COPAC is a registered trademark of The University of Manchester.

**NOTE: Institution of Civil Engineers (ICE) Library catalogue has been added to COPAC**

COPAC has loaded the catalogue of the Institution of Civil Engineers Library onto COPAC. See the COPAC blog [online] and available @ [http://blog.copac.ac.uk/2015/04/13/institution-of-civil-engineers-library-catalogue-loaded/](http://blog.copac.ac.uk/2015/04/13/institution-of-civil-engineers-library-catalogue-loaded/) [accessed 26 June 2017] for full details.

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**UCEM e-Library portrait**

[UCEM e-Library portrait](https://www.ucem.ac.uk/supported-online-learning/elibrary/) [accessed 26 June 2017]

As of June, 2017, a search of ‘construction’ on the internet produces over **1,850,000,000 items**. How long will it take you to find exactly what you are looking for?

The UCEM e-Library (accessed through the VLE) is a comprehensive and valuable online resource, enabling staff and students to access a wealth of up-to-date, credible and subject-specific information around the clock. The e-Library ensures that staff and students are kept informed of current and best practice from within construction and real estate, and kept abreast of the latest developments within the profession.
The UCEM e-Library can:

- provide a first point of call for staff and students to access digital resources
- add value and depth to work
- contribute to personal and professional development

Resources available include up-to-date information and online searchable databases from key educational and industry-specific sources, including British Library, Open University (UK), Building Cost Information Service (BCIS), Building Services Research and Information Association (BSRIA), Estates Gazette (EGi), International Monetary Fund (IMF), Investment Property Databank (IPD) - a subsidiary of MSCI Inc., and isurv - Royal Institution of Chartered Surveyors (RICS) published material. Staff and students can also access useful web links to additional digital resources; e-books and e-journals to assist with research and underpin written work, while building current awareness of issues affecting construction and real estate.

NOTE: For the above link to work you must ensure that you are logged-in to Athens - Section 2 of the VLE e-Library

People have access to so much information these days and particularly through the Internet. “Demonstrating to both UCEM staff and students what their e-Library can do for them remains a key priority.” Lucy Roper, UCEM Digital Resource Manager

Some key facts and figures about the UCEM e-Library

Access to -

- over 2000 Full-Text Journal Titles
- over 1000 useful web links to e-Resources
- online searchable databases from 15 key industry specific & educational sources
- A discovery service to allow students and staff to search all the UCEM Library services and e-Resources in one place
- Athens gateway – access and identity management system
- a direct link to UCEM’s entire library of study material
- UCEM Published Research and back issues of this eBulletin
- Abstracts and indexes of external databases
- Reading lists, bibliographies and literature reviews
- Guidance notes and fact sheets
- Access to UCEM Research and Occasional Paper series, Reports and Publications, and Archive

UCEM e-Library enquiry service –

UCEM are constantly striving to improve the online resources available to support learning and development. Therefore, having listened and responded to requests, the e-Library has now set up an enquiry service so that library queries can be put direct to an information specialist. So why not email today at library@ucem.ac.uk?

Or access the e-library online. Available @ https://www.ucem.ac.uk/ [accessed 26 June 2017]

and click on ‘Access your VLE’ & visit the ‘e-Library’
Student career service –

The UCEM Careers Service is part of Student Services and provides students with professional Information, Advice and Guidance on all career related matters.

Reasons to use the UCEM Careers Service –

1. It’s industry specific and on trend. UCEM undertakes research and talks to employers all the time to keep up-to-date.
2. It’s tailor made; you may need a straightforward answer to a quick question or some in depth careers coaching. This is not “one size fits all”.
3. UCEM runs a great online Job Shop with a wide range of opportunities from two week placements to overseas roles. Employers really want to connect with you and often come to UCEM first with entry level jobs. Why not [click here] and add us to your favourites?
4. UCEM offers a CV review service to help you produce this all important marketing tool.
5. This service is free, confidential and recognised by MATRIX, the industry Quality Standard. It can challenge the way you see yourself and maybe your perception of Career Advice too.

On offer

- Advice by email, phone or Skype
- Career planning tools
- Interview practice
- Labour Marketing Information
- Job search skills
- Country specific advice for international students
- Specialist resources on the VLE

Top topics in 2015

- Job hunting, Graduate schemes and entry level jobs
- Career planning – it’s essential these days
- Getting industry experience whilst you are studying
- CVs
- Work Life Balance

Source: UCEM, 26 October 2015, CEM Careers Newsletter – CEM Student Career Service, Reading : UCEM

Related Links:

GoConstruct.org website

In September 2015 the Construction Industry Training Board (CITB) launched a response on behalf of many of the industry’s training and professional bodies to the persistent call over the last year or more for a single portal – namely GoConstruct.org to help school children and others to explore job and career options within the construction sector, ranging from professional and managerial to trade and supervisory occupations. Hopefully it will cover every role you can think of? The CITB and Construction Excellence website have recommended everyone/readers to take a look at [https://www.goconstruct.org](https://www.goconstruct.org), pass on the link to those who can use it – and also provide feedback.

Or follow them on their Social Media sites. Access via the website goconstruct.org

@GoConstructUK or

Related Link:
A career in construction gives you the chance to be part of something BIG! goconstruct.org [accessed 26 June 2017]

#ElizabethLine

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RICS Careers guide - Schools: Where will the world of surveying take you? [Updated for 2017]
- Surveyors design, build, manage and protect everything you see. RICS’s schools and universities careers guides are essential if you’re considering a career in surveying.
Find out what it’s like to work as a surveyor, how you can make a difference working on some of the most exciting projects around and get key information on apprenticeship schemes and university courses.
RICS’s schools careers guide is a perfect introduction into careers in the built environment and why surveying could be an option.

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RICS Surveying careers guide 2017 – Universities
Surveying 2017 is the annual careers guide from RICS aimed at those interested in learning more about careers in land, property and construction.
If you’re set on a career in the built environment, RICS’s universities careers guide provides more in-depth information about surveying as a career, including all the different specialisms and how you can gain a globally-recognised RICS qualification.
You can also browse the full list of graduate opportunities and courses provided + access and read this guide in full by downloading the PDF via web-link provided below:
RICS Careers [online]. Further information is available at http://www.rics.org/uk/the-profession/ [accessed 26 June 2017]

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UCEM’s Sustainability Hub:

FreeBook: Pathways to Sustainable Agriculture
Produced in Partnership with the ESRC STEPS Centre
This FreeBook highlights some of the major findings that have emerged over the last decade of the STEPS Centre’s research on sustainable agriculture.
It draws on four books which address three themes central to understanding how pathways emerge in agriculture, and how sustainability, is or indeed is not, generated. The three themes are: framing (how we understand agriculture and its roles in development), practice (how agriculture and agricultural research is carried out, and by whom) and governance (how agriculture is regulated and controlled).
Click here to gain free access to receive your FreeBook. [accessed 26 June 2017]

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.
Further information available at www.routledgetextbooks.com/textbooks/sustainability [accessed 26 June 2017]

Sustainable Building Training Guide Launched
Produced by the Green Construction Board and the Construction Leadership Council this new guide has been endorsed by leading construction businesses and industry federations, training bodies, and professional institutions.
This accessible guide explains the principles of sustainable building in terms that are useful for the development of content for standards, qualifications, apprenticeships and training courses. Its purpose is to help the training sector to embed sustainability within all mainstream learning, including the national curriculum, apprenticeships, degrees and professional qualifications. It is therefore a key reference for anyone involved in construction training.
The publication, use, and uptake of this guide is a key recommendation of the “Each Home Counts” Reviews. Its adoption and use by the training sector will help us to address the so-called ‘performance gap’ and will ultimately aid the transition to an energy efficient and low carbon built environment.
You can download a copy of the publication via the hyperlink provided below.

Seven Passivhaus developments
- Councils, housing associations and developers are increasingly turning to Passivhaus to deliver energy efficient homes for communities.
June has been a good month for the energy efficiency standard – Passivhaus Trust won the Ashden Award and Nottingham getting the green light for its first Passivhaus residential development.
The UK Ashden Award for Sustainable Buildings went to The Passivhaus Trust, for its work promoting and upholding the rigour of the standard, which is based on high levels of insulation, airtightness, passive solar gain, and mechanical ventilation with heat recovery. So far 500 homes and buildings have been certified to the
Passivhaus standards, with some of these homes forming part of residential developments, mostly led by local authorities and housing associations, though private developers are getting in on the act.

Below are a selection of residential developments that give a flavor of the current state of the Passivhaus landscape in the UK.

1. **Ranskill Gardens, Nottingham**

   Nottingham City Council gave Positive Homes planning permission in June 2017 to build eight Passivhaus homes on the site of a derelict council-run Children’s home. The homes will be constructed using the Beattie Passive kit home system, with Positive Homes, creating a small factory and hiring a workforce, including apprentices to build the timber-frame kits. The developer says it intends to build 500 “super-low energy homes” in the East Midlands over the next five years.

2. **Three Score and Carrowbeck Meadow, Norwich**

   Norwich has been a leading light for Passivhaus in the UK. In April 2015 Norwich City Council announced its Fabric First Construction Framework to build energy efficient homes. Among those is the Three Score scheme in the western part of the city, which saw construction begin in June for 172 homes designed to high levels of energy efficiency, 112 of which will be built to the Passivhaus standard and represents the largest Passivhaus development of its kind in the UK. Within the Greater Norwich area is Carrowbeck Meadow, a development of 14 Passivhaus homes, 43% of which of which are affordable homes. Both schemes have been designed by Hamson Barron Smith.

3. **Chester Balmore, London**

   This 53-home development in the London Borough of Camden is currently the UK’s largest of its kind. Part of the Camden Council’s Community Investment Programme, the scheme consists of apartments spread over three blocks consists of private, social and shared-ownership tenancies and aimed to make Passivhaus affordable.

4. **Cameron Close, Isle of Wight**

   In September 2015 Southern Housing Group, one of the largest housing associations in the south east of England, delivered its first every Passivhaus scheme on the Isle of Wight. Built on a 1.5 acre site, the £4.2m Cameron Close development comprises 16 semi-detached family houses and 12 sheltered apartments for the over 55s. The housing association chose Passivhaus because it met the Group’s sustainability objectives, which is focused on providing affordable warmth for residents and creating a low carbon housing association.

5. **Future Home, London**

   Designed for its Elephant Park regeneration scheme in Elephant & Castle, Lendlease has adopted Passivhaus for a terrace of 15 Victoria-style townhouses that are located opposite a conservation area. The buildings have been constructed with cross-laminated timber as a greener alternative to concrete or steel structural frames and Lendlease considers the scheme a milestone in its bid to be at the forefront of sustainable design.

Access to further information is available at:

**Source:** Carr D (2017), Building Research Establishment (BRE) – ‘Seven Passivhaus developments’, Building4Change [online], 19 June. Available at [http://www.building4change.com/article.jsp?id=2831#.WVJggOvytEY](http://www.building4change.com/article.jsp?id=2831#.WVJggOvytEY) [accessed 26 June 2017], ARTICLE #2831 (BRE).

**Referenced and related Links:**

- Positive Homes [online]. Available at [http://positivehomes.co.uk/](http://positivehomes.co.uk/) [accessed 27 June 2017]
How can suppliers practice what they preach on sustainability

Sika Limited and Sika Ireland Limited are part of the global Sika Group, specializing in the manufacture and supply of chemical based products for bonding, sealing, damping, reinforcing, and protecting the building sector and the motor vehicle industry.

The importance of sustainability is recognized the world over but it means difference things to different people. For many it is about low environmental impact, whether that is in terms of performance or delivery. However, it is so much more than that and for a global business such as Sika, it is imperative that we fully embrace sustainability and practice what we preach.

As a business, sustainability is embedded into everyone we do – it affects us economically, environmentally and socially. It is a fundamental part of our everyday business. As a leading manufacturer of products working across multiple industry sectors and as a responsible employer, sustainability affects our thoughts, behaviours and actions – everyday. For us, sustainability is a shared goal but one whose successes directly benefit all.

We strongly believe in the holistic approach to sustainability and as such have six sustainability target indicators which encompass the three traditional pillars of sustainability:

1. Economics performance
2. Sustainability solutions
3. Local communities / society
4. Energy
5. Water / waste
6. Occupational safety

These targets define what we do on a day-to-day basis from a business strategy and culture perspective. Sika has committed to using the GRI’s (Global Reporting Initiative) sustainability reporting standards for our Annual Report, which details initiatives implemented and progress towards sustainability targets. GRI provides the world’s most widely used sustainability reporting standards – 92% of the world’s largest 250 corporations report on their sustainability performance and 74% of these companies use GRI’s standards.

Embracing GRI not only illustrates to stakeholders the importance that we place on sustainability, but also demonstrates that we are not afraid of being open and honest; building trust with customers and local communities alike.

GRI compares performance, year on year. This approach allows use to base our sustainability credentials on fact and not on ‘green wash’. This is exceptionally important for a company that produces hundreds of different products, in dozens of different countries, as customers need to have the confidence that what they are specifying or installing is not only fit-for-purpose but also meets their sustainability needs.

As a global company, a global approach to sustainability is required, as demonstrated by our membership of the World Business Council for Sustainable Development and our commitment to the UN Global Compact. Further illustration of our commitment includes 150 tonnes of waste saved and reused at a plant in Germany; a 60%
saving of lighting energy at a number of our European factories and warehouses and 6% saving in electricity using outside cooling for processing at a plant in the US.

Sika also works with the Global Nature Fund who have developed partnerships with more than 100 organisations to address drinking water conservation globally. Additionally, in Thailand and Vietnam, Sika staff have volunteered more than 3,600 hours to support Operation Smile International which is dedicated to providing free treatment to children and adults suffering from cleft lips and palates.

Sustainability is in everything we do, every day. It affects all of us and as a business we are proud to practice what we preach and play our part in delivering a more sustainable future.


Related Link:

Sustainability in building design and construction


NOTE: Use of Wikipedia as a reference site:

Wikipedia and use of other Wiki 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 is allowed to be a contributor to the website.

This can be avoided by following two simple rules:

- Remember that any encyclopaedia (which includes Wikipedia and any other wiki) can be a good starting point for research, and not an ending point.

- An encyclopaedia can be good for getting a general understanding of a subject before you extend your study of the subject further. But you then have to consider the subject in more depth using books, journal 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.

Green infrastructure for denser cities

- As cities grow and become more dense, we need to promote green infrastructure as a utility that improves resilience and health

London continues to grow. Its population is expected to be circa 11 million by 2050. There is a widely held view that this growth must be contained within London’s boundaries. This is not only to protect the Green Belt, it is also because a compact city can be a more sustainable city by encouraging high rates of public-transport use and efficiencies in the use of energy and water.

However, there is an understandable concern that increasing growth and density will result in continued loss of green space and a growing disconnection of people from nature. So how can a city with more homes, hospitals, shops, schools and businesses be a greener city that meets the aspirations set by a raft of policy ranging from the UK Greener Cities agenda, the EU Nature based solutions initiative and UK policy in the Natural Environment White Paper?

Re-framing out terms of reference

It will firstly require a shift in thinking about our understanding of ‘green space’, ‘public realm’, the ‘built environment’ and the relationship between them, because although these catch-all terms, derived from land-use
planning policy, define form, they say little about function. Green space is merely that which is not built upon; public realm describes the civic space between buildings, and the ‘built environment’ lumps together every architectural form into a fusion of stone, brick, concrete, glass and steel, which is often regarded as the antithesis of the natural environment. This has resulted in green city policies being framed simply around the protection of green space (and nature) from the built environment and improving the aesthetics of the public realm by, for example, planting street trees.

Consequently urban planning, architecture, and urban design has – until relatively recently – been practice in order to achieve the necessary balance between green, hard and soft, artifice and nature. In the UK, city planning frameworks such as the London Plan have been reasonably good at mediating this compromise and guarding against wholesale loss of green space. But it is difficult to see how this traditional policy approach can continue to work as cities grow. Cities are, after all, a manifestation of our ability to build, engineer and fashion the landscape to meet our cultural and economic needs.

These needs include the benefits provided by a green city but, when trade-offs need to be made, we have not always been able to articulate these benefits in a way that is as compelling as the arguments for new housing, hospitals, schools and transport infrastructure.

Green infrastructure as a utility

We have to craft a more sophisticated and nuanced green city policy framework that promotes an integrated network of parks, green roofs, trees, rain gardens, green walls and green corridors that act as a ‘green infrastructure’. A clunky term, perhaps, but one that describes better through these green elements of the city’s fabric can be planned, designed and managed and, dare I say, engineered, to provide services that are essential rather than optional or nice to have.

London has been moving in this direction. By restoring rivers to create new flood storage capacity and improve ecological connectivity, and by beginning to implement sustainable urban drainage to relieve growing pressure on the surface water drainage system, we have begun to demonstrate how a green infrastructure approach can enhance both function and form of a space. London has also had considerable success in encouraging the installation of green roofs, green walls and rain gardens, particularly in the heart of the city and across central London where opportunities resulting from regeneration or public realm improvements by public/private partnerships provide the catalyst for change.

But we do not yet ‘plug, plumb and connect’ green infrastructure in the city in the same way as we do other critical infrastructure. We need to consider how it is planned and delivered at a scale beyond the individual green space or development. Isolated greening interventions are beneficial but are not transformative per se. It is when these are designed and delivered in a way that addresses both a site-specific need and the landscape-scale challenge (such as surface water flood management, air quality improvement, biodiversity conservation or modal shift to walking or cycling) that it becomes an infrastructure that is networked and systematised in the same way as water, power, transport and digital services are provided. Guidance is beginning to be developed that helps promote this systems thinking approach. For example, Trees in the Hard Landscape published by The Trees and Design Action Group and Lewisham Council’s River Corridors Improvement Plan acknowledge the importance of landscape-scale, holistic thinking that helps to integrate rather than separate green and grey.

This more utilitarian view of green infrastructure is anathema for some because it seems to detract from the intrinsic value of green space and nature. But making the case for the utility of green infrastructure simply provides an additional argument for why the cities which are likely to become denser and more populated in the future need to be greener. A greener city is one that does not differentiate between the natural environment and built environment, between ecologist and architect, or between park and public realm. It is a city that embraces the concepts of green infrastructure and nature-based solutions in order to create an urban form that is not a compromise with nature, but a collaboration with it.

Access to further information is available at:

Related Links:


BRE / Sustainability [online] and available @ https://www.bre.co.uk/page.jsp?id=1766 [accessed 26 June 2017]

Useful Online Resource

openDemocracy

openDemocracy is an independent global media platform publishing up to 60 articles a week and attracting over 8 million visits per year. Through reporting and analysis of social and political issues, openDemocracy seeks to challenge power and encourage democratic debate across the world. With human rights as their central guiding focus, they ask tough questions about freedom, justice and democracy.

Some articles include


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UCEM’s commitment to the sustainability agenda –

beesustainable  BUILT • ENVIRONMENT • EDUCATION

UCEM's strategic ambition is to develop and implement genuine sustainability credentials as a socially responsible organisation by;
• Ensuring our students leave their study with UCEM conversant in best practice in nurturing a sustainable built environment
• Making sustainability a central focus for UCEM at organisational, departmental and individual levels, and
• Establishing UCEM as a leader in the sustainability agenda through actively influencing industry and conducting research in our sector

UCEM, February 2015, thirty-seven twenty-seven, Principal’s Update, Issue 13, Reading: UCEM

Useful web links

A - B - C - D - E - F - G - H - I - J - K - L - M
N - O - P - Q - R - S - T - U - V - W - X - Y - Z

A

American Society of Civil Engineers (ASCE) Civil Engineering database http://www.asce.org/ [accessed 26 June 2017] provides free access to over 80 thousand abstracts taken from ASCE publications since 1973.

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 [online]. Further information available at www.arcom.ac.uk/index.php [accessed 26 June 2017]

B

BAILLI Case Law Search (British and Irish Legal Information Institute) [online]. Further information available at http://www.bailii.org/form/search_cases.html [accessed 26 June 2017]


BBC Search [online]. Further information available at http://www.bbc.co.uk/search/ [accessed 26 June 2017]

BCSC (British Council of Shopping Centres) was the professional body and authoritative voice for retail-led regeneration and for the management of and investment in shopping places [online].

NOTE: BCSC is changing, and is now REVO – Retail. Property. Community. See REVO below. Further information available at https://www.revocommunity.org/ [accessed 26 June 2017]

BIFM (British Institute of Facilities Management) - BIFM is Europe's leading FM Institute. Founded in 1993, the Institute provides information, education, training and networking services for its members [online]. Further information available at http://www.bifm.org.uk/bifm/home [accessed 26 June 2017]


BIFM Library holds all documents produced by the British Institute of Facilities Management [online]. Further information available at www.bifm.org.uk/bifm/knowledge/resources/library [accessed 26 June 2017]

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]. Further information is available at http://www.bimtaskgroup.org/about/ [accessed 26 June 2017]

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 @ http://bimforum.org [accessed 26 June 2017]

BOMA International (Building Owners and Managers Association International) – a federation of 91 BOMA U.S. associations and 17 international affiliates. Founded in 1907, BOMA’s mission is to advance a vibrant commercial real estate industry through advocacy, influence and knowledge. BOMA Research and Resources [online] and available at http://www.boma.org/research/Pages/find-a-resource.aspx [accessed 26 June 2017]

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 [online]. Further information available at http://www.bpf.org.uk/en/index.php [accessed 26 June 2017]

BRE (Building Research Establishment) is an independent and impartial, research-based consultancy, testing and training organisation, offering expertise in every aspect of the built environment and associated industries [online]. Further information available at http://www.bre.co.uk/about-us.jsp [accessed 26 June 2017]

BRE, Building4Change - Launched by the Building Research Establishment (BRE) Trust in 2009, Building4Change is an online knowledge hub, dedicated to sustainability, innovation and best practice in the built environment. It delivers a free-to-view daily digest of news and information from across the built environment, including greater detail on the news from the BRE Group. Available online at http://www.building4change.com/index.jsp [accessed 26 June 2017]

BSRIA (Building Services Research and Information Association) is a test, instrumentation, research and consultancy organisation, providing specialist services in construction and building services. https://www.bsria.co.uk/ [accessed 26 June 2017]

Builder and engineer [online]. Available at http://www.builderandengineer.co.uk/ [accessed 26 June 2017] – Free access to articles from Builder and Engineer magazine and locate information on current projects as well as company profiles, products and industry news.


Building Design Directory – provides construction and environmental products / services / information for Architects, Engineers and Facility Managers [online]. Available at http://www.buildingdesign.co.uk [accessed 26 June 2017]
Building talks [online]. Available at www.buildingtalk.com [accessed 25 May 2017] Building Talks is an email newsletter for Architects, Civil Engineers and Building Services Contractors.

CABER (Centre for Architecture and Built Environment Research) 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 @ http://www1.uwe.ac.uk/et/research/caber.aspx [accessed 26 June 2017]

CBA (Council for British Archaeology) is an independent charity bringing together members, supporters and partners to give archaeology a voice and safeguard it for future generations [online]. Available at http://new.archaeologyuk.org/ [accessed 26 June 2017]

CBI (Confederation of British Industry) is the UK’s premier business lobbying organisation, providing a voice for employers at a national and international level [online]. Available at http://www.cbi.org.uk/ [accessed 26 June 2017]

CBI Construction Section [online]. Available at http://www.cbi.org.uk/business-issues/construction/ [accessed 26 June 2017]

CBRE (Commercial Real Estate Services) is the world’s largest real estate services provider, with a preeminent leadership position in virtually all key business centers globally [online]. Available at http://www.cbre.com/EN/Pages/Home.aspx [accessed 26 June 2017]

CEBE (The Centre for Education in the Built Environment) - As part of the Subject Network of the Higher Education Academy (HEA) [online] and available at https://www.heacademy.ac.uk/ [accessed 26 June 2017] the Centre provides discipline based support to enhance the quality of learning and teaching in the UK Higher Education CEBE, Built Environment community.

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

CIC (Construction Industry Council) – The representative forum for the professional bodies, research organisations and specialist business association in the construction industry [online] and available at http://cic.org.uk/ [accessed 26 June 2017]

CIOB (Chartered Institute of Building) 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 [online]. Available at http://www.ciob.org.uk/ [accessed 26 June 2017]

CIOB Insight incl. Library and Information Services [online]. Available at http://www.ciob.org.uk/library [accessed 26 June 2017]

CIOB – Construction Manager [online]. Available at http://www.constructionmanagermagazine.com/ [accessed 26 June 2017]


CITB – Construction Industry Training Board is the training board for the construction industry and partner in ConstructionSkills, the Sector Skills Council [online]. Available at http://www.citb.co.uk/ [accessed 26 June 2017]

Cities / buildings images database [online]. Available at www.washington.edu/ark2 [accessed 26 June 2017] is a collection of images of buildings and cities from around the world aimed at students, researchers and educators.

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 [online]. Available at http://constructingexcellence.org.uk/ [accessed 26 June 2017]

The Construction Index [online] provides a wide range of information services for the UK construction industry, incl. 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 http://www.theconstructionindex.co.uk/ [accessed 26 June 2017].

Construction News [online]. Available at www.cnplus.co.uk [accessed 26 June 2017]

Construction Products Association (CPA) represents the UK’s manufacturers and distributors of construction products and materials. Further information available at Construction Products Association [online]. Available at http://www.constructionproducts.org.uk/ [accessed 26 June 2017]

Contractors World magazines (incl. Contractors World International and Contractors World UK & Ireland) are the leading international digital publications. Delivering site reports, equipment reviews and comments of interest on the construction, mining, quarrying and related industries [online]. Available at http://cwmags.info/ and http://cwmags.co.uk/index.php [accessed 26 June 2017].

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 [online]. Further information is available at http://copac.ac.uk/ [accessed 26 June 2017]

COTAC (Conference on Training in Architectural Conservation) was formed in 1959 to improve the standard of education of everyone involved in building conservation, including craftsmen, professionals and home owners [online]. Available at http://ihbconline.co.uk/cotac2/ [accessed 26 June 2017]


CPIC (Construction Project Information Committee), 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 [online]. Available at http://www.cpic.org.uk/ [accessed 26 June 2017]

CPRC (Construction and Property Research Centre), University of the West of England (UWE) – the CPRC’s research activity is focused around the three inter-related stages of the built environment life-cycle, namely design, construction and maintenance [online]. Available at http://www1.uwe.ac.uk/et/research/cprc.aspx [accessed 26 June 2017]. Note: CABER (Centre for Architecture and Built Environment Research) mentioned above incorporates the CPRC.

CPRC, UWE Research Repository – Providing immediate world-wide open access to all of UWE’s research output [online]. Available at http://eprints.uwe.ac.uk [accessed 26 June 2017]

CPRE (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 [online] Available at [http://www.cpre.org.uk/](http://www.cpre.org.uk/) [accessed 26 June 2017].

**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 [online]. Available at [http://www.cpre.org.uk/resources](http://www.cpre.org.uk/resources) [accessed 26 June 2017]

**CPWR (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 [http://www.cpwr.com/](http://www.cpwr.com/) [accessed 26 June 2017]

**Design Council** champions great design that improves lives and makes things better [online] and available @ [http://www.designcouncil.org.uk/](http://www.designcouncil.org.uk/) [accessed 26 June 2017]. See also [Inclusive Design Hub for the Built Environment](http://www.designcouncil.org.uk/) (a project of The Design Council) listed below.

**Designing Buildings Wiki** [online] and available at [http://www.designingbuildings.co.uk/wiki/Home](http://www.designingbuildings.co.uk/wiki/Home) [accessed 26 June 2017] - an industry-wide, cross-discipline forum for finding and sharing information.

**Designing Buildings Wiki – Student resources** [online] and available at [https://www.designingbuildings.co.uk/wiki/Student_resources](https://www.designingbuildings.co.uk/wiki/Student_resources) [accessed 26 June 2017] – Designing Buildings Wiki has a wide range of resources aimed at students of the built environment, as shown here.

**DOAB (Directory of Open Access Books)** is a service which harvests details of academic and mainly peer-reviewed books published on open access [online]. Available at [http://www.doabooks.org/doab](http://www.doabooks.org/doab) [accessed 26 June 2017]

**DOAJ (Directory of Open Access Journals)** covers all open access scientific and scholarly journals, using a quality control system to guarantee the content [online]. Available at [https://doaj.org/](https://doaj.org/) [accessed 26 June 2017]

**The Economics Network** provides publications, events and other resources to support university teachers of economics throughout the UK and worldwide [online]. Available at [www.economicsnetwork.ac.uk](http://www.economicsnetwork.ac.uk) [accessed 26 June 2017]

**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 [online] and available at [https://www.epsrc.ac.uk/](https://www.epsrc.ac.uk/) [accessed 26 June 2017]

**English Heritage** cares for over 400 historic buildings, monuments and sites – from world-famous prehistoric sites to grand medieval castles, from Roman forts on the edges of the empire to a Cold War bunker. Further information is available at [http://www.english-heritage.org.uk/](http://www.english-heritage.org.uk/) [accessed 26 June 2017]. **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** (listed below).

**Estates Gazette** The UK’s largest commercial property news team [online]. Available at [http://www.egi.co.uk/Property/Home.aspx](http://www.egi.co.uk/Property/Home.aspx) [accessed 26 June 2017]

European Real Estate Society (ERES) was established in 1994 to create an international real estate network between academics and professionals across Europe [online]. Further information is available at http://www.eres.org/ [accessed 26 June 2017]. ERES Digital Library [online] and available at http://eres.architexturez.net/ [accessed 26 June 2017]

Great Buildings [Online]. Available at www.greatbuildings.com [accessed 26 June 2017] 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.


The Green Construction Board [online]. Further information is available at http://www.greenconstructionboard.org/ [accessed 26 June 2017] – The role of the GCB is to provide leadership and action to enable the whole value chain (clients, contractors, product manufacturers and suppliers) to become more environmentally, sustainable, more productive and better placed to exploit the growing global market.

The Guardian, Housing network – providing insight, advice and best practice from your community [online]. Available at http://www.guardian.co.uk/housing-network/ [accessed 26 June 2017]


Health and Safety Executive (HSE) – 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 [online]. Available at http://www.hse.gov.uk/index.htm [accessed 26 June 2017] and HSE – Health & Safety in the construction industry [online] is available @ http://www.hse.gov.uk/construction/ [accessed 26 June 2017]

HELM (Historic Environment Local Management) - provides accessible information, training and guidance to decision makers in local authorities, regional agencies and national organisations whose actions affect the historic environment. Note: You can now find all HELM web content on the Historic England website [online] and available @ http://www.historicengland.org.uk/advice/planning/local-heritage/helm-redirect [accessed 26 June 2017].

Heritage Alliance - The largest coalition of heritage interests in England, the Heritage Alliance is the umbrella body for national and major regional Heritage NGOs [online]. Available at http://www.theheritagealliance.org.uk/ [accessed 26 June 2017]


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 [online]. Available at http://heritagehelp.org.uk  [accessed 26 June 2017]

Higher Education Academy (HEA) – The Higher Education Academy champions excellent learning and teaching in higher education. The HEA are a national and independent organisation, funded by the four UK HE funding bodies and by subscriptions and grants [online]. Available at https://www.heacademy.ac.uk/ [accessed 26 June 2017] and HEA Knowledge HUB [online] and available at https://www.heacademy.ac.uk/hub [accessed 26 June 2017]

Higher Education Empirical Research (HEER) Database comprises summaries of the latest published research on a range of topics related to higher education [online]. Available at http://heer.qaa.ac.uk/  [accessed 26 June 2017]

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 http://www.historicengland.org.uk/ [accessed 26 June 2017]

Home Builders Federation (HBF) – HBF represents and serves its members in a range of ways including; Ensuring senior politicians and government officials are aware of housing issues and the challenges faced by our members; and working with Government officials to ensure housing policies are introduced that facilitate housing supply, in a way that is workable for the industry [online]. Available at http://www.hbf.co.uk/ [accessed 26 June 2017]

House Building Careers (part of HBF) – Here you will be able to learn about the home building industry and how it benefits you, your community and the country as a whole [online]. Further information available at http://housebuildingcareers.org.uk/ [accessed 26 June 2017]

ICDE (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 [online]. Available at http://www.icde.org/ [accessed 26 June 2017]

ICE (Institution of Civil Engineers) ICE is a registered charity that strives to promote and progress civil engineering [online]. Available at https://www.ice.org.uk/ [accessed 26 June 2017]

ICE Virtual Library [online]. Available at www.icevirtuallibrary.com [accessed 26 June 2017] is a free database that indexes all ICE journals.

IHBC (Institute of Historic Building Conservation) is the principal professional body for building conservation practitioners and historic environment specialists working in England, Northern Ireland, Scotland and Wales, with connections to the Republic of Ireland [online]. Available at http://www.ihbc.org.uk  [accessed 26 June 2017]

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 http://www.designcouncil.org.uk/projects/inclusive-design-hub-built-environment [accessed 26 June 2017]

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 [online] and available at http://www.itcon.org/ [accessed 26 June 2017]

JOLT (Journal of Online Learning and Teaching) - The MERLOT Journal of Online Learning and Teaching is a peer-reviewed, open-access, online publication that aims to promote scholarship in

**JournalTOCs** is the largest, free collection of scholarly journal Title of Contents (TOCs) [online]. Available at http://www.journaltoacs.ac.uk/index.php [accessed 26 June 2017]

**JEBe (Journal for Education in the Built Environment)** is the leading UK publication for pedagogy in the built environment disciplines [online]. Further information is available within the **Higher Education Academy (HEA) Knowledge Hub** [online] and available at https://www.heacademy.ac.uk/hub [accessed 26 June 2017]

**JEBe JISC Content** – This website provides an introduction to digital collections designed for education. They are mainly aimed at university students, researchers and librarians but many of the online archives are open to anyone @ https://www.jisc.ac.uk/website/legacy/jisc-content [accessed 26 June 2017]. **Note:** The JISC Content portal closed on 1 July 2016, however links are provided to Archives Hub and Digital Resources from this link.

**JORUM** – 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 Archive can be accessed via the JISC website [online]. Available at https://www.jisc.ac.uk/website/legacy/jorum [accessed 26 June 2017] where you can also gain access to JISC’s full digital resources offer.

**Leeds Metropolitan University’s CeBE – Centre for the Built Environment** – CeBE has researched ways to reduce domestic energy use for nearly 20 years [online]. Available at www.leedsmet.ac.uk/cebe [accessed 26 June 2017]. CeBE’s Virtual Site Gallery contains construction details, case studies, site photographs, and plant details @ www.leedsmet.ac.uk/teaching/vsite/gallery/ [accessed 26 June 2017]

**Local Government Association (LGA)** - The LGA is the national voice of local government. They work with councils to support, promote and improve local government [online]. Available at http://www.local.gov.uk/ [accessed 26 June 2017]

**LGA Knowledge Hub** - Knowledge Hub is the public sector’s professional social network which helps people in local government connect and share online in a secure environment [online]. Available at https://khub.net/ [accessed 26 June 2017]

**MERLOT – Multimedia Educational Resource for Learning and Online Teaching**. The MERLOT project began in 1997, when the California State University Center for Distributed Learning (CSU-CDL) at www.cdl.edu [accessed 26 June 2017] developed and provided free access to MERLOT at www.merlot.org [accessed 26 June 2017]. MERLOT is a curated collection of free and open online teaching, learning, and faculty development services contributed and used by an international education community.

**MERLOT Journal of Online Learning and Teaching** (JOLT and mentioned above) 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 [online]. Available at MERLOT Journal of Online Teaching and Learning (JOLT): http://jolt.merlot.org and http://jolt.merlot.org/currentissue.html [accessed 26 June 2017]. **Note:** The MERLOT community is joining with the Online Learning Consortium (OLC - formerly Sloan C and mentioned below) to expand scholarly research in the field of online education, with a merger
of the Journal Online Learning (formerly JALN) and the Journal of Online Learning and Teaching (JOLT).

N

National BIM (Building Information Modelling) Library, the construction industry’s free-to-use resource of the NBS (trading name of RIBA Enterprises Ltd) standard BIM content [online]. Available at https://www.thenbs.com/services/our-tools/nbs-national-bim-library [accessed 26 June 2017], NBS homepage is available at https://www.thenbs.com/ [accessed 26 June 2017], and NBS Knowledge [online] is available at https://www.thenbs.com/knowledge [accessed 26 June 2017]

National Skills Academy for Construction (NSAfC) – The NSAfC is an industry-led framework supporting clients and contractors to identify, develop and realise employment and skills solutions across construction projects [online]. Available at https://www.citb.co.uk/national-skills-academy-for-construction/ [accessed 26 June 2017]. It is facilitated by the CITB – Construction Industry Training Board (see above).

The National Trust protect historic houses, gardens, mills, coastline, forests, woods, fens, beaches, farmland, moorland, islands, archaeological remains, nature reserves, villages and pubs [online]. Available at http://www.nationaltrust.org.uk/ [accessed 26 June 2017]

National Trust’s Land use & planning [online]. Available at http://www.nationaltrust.org.uk/what-we-do/big-issues/land-use-and-planning/ [accessed 26 June 2017]

NCE [online]. Available at www.nce.co.uk [accessed 26 June 2017] is the official website of the New Civil Engineer, a weekly magazine published for the ICE.

O

OAJSE (Open Access Journals Search Engine) – An Open Access e-Journal portal. Search for articles in Open Access journals from around the World (excl. India) [online]. Available at http://www.oajse.com/index.html [accessed 26 June 2017]. Specialist subject areas including: Business and Management; Construction; Economics; Education; Law; Library and Information Science; and Social Sciences to name but a few.

OECD (Organisation for Economic Cooperation and Development) iLibrary is the online library of the OECD, featuring its books, papers and statistics and is the gateway to OECD’s analysis and data. It replaced SourceOECD in July 2010 [online]. Available at http://www.oecd-ilibrary.org [accessed 26 June 2017]

OER Hub - Open Education Resources, Research Hub – OER Hub gathers research on the impact of open education resources (OER) on learning and teaching practices [online]. Further information is available at http://oerhub.net/ [accessed 26 June 2017]

Online Learning Consortium (OLC) – The 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. Further information is available at Online Learning Consortium [online] and available at http://onlinelearningconsortium.org/ [accessed 26 June 2017]

OLC’s Online Learning – the official journal of the Online Learning Consortium [online]. Available at http://onlinelearningconsortium.org/read/ [accessed 26 June 2017]

Open Praxis – Open Praxis (published by the International Council for Open and Distance Education – ICDE) is a peer-reviewed open access scholarly journal focusing on research and

Open University (OU) UK [online] and available at http://www.open.ac.uk/ [accessed 26 June 2017]

Open University (OU) UK, Institute of Education Technology [online] and available at http://www.open.ac.uk/iet/main/ [accessed 26 June 2017]

ORBEE (Open Resources in Built Environment Education) contains a collection of free, high quality teaching and learning materials for online learning or use in the classroom [online].


The Planning Portal - the UK Government’s online planning and building regulations resource for England and Wales [online]. Available at https://www.planningportal.co.uk/ [accessed 26 June 2017]

Planning Advisory Service (PAS) – The Planning Advisory Service provide consultancy and peer support, training sessions and online resources to help local authorities understand and respond to planning reform [online]. Available at http://www.local.gov.uk/pas [accessed 26 June 2017].

Note: PAS have a new website

Planning Officers Society (POS) – The Planning Officers Society is the voice for public sector planning practitioners, pursuing good and effective planning practice within local government [online]. Available at http://www.planningofficers.org.uk/ [accessed 26 June 2017]

The Prince’s Regeneration Trust is a UK charity that helps redundant historic buildings perform a new function, unlocking a regeneration of the wider community [online]. Available at http://www.princes-regeneration.org/ [accessed 26 June 2017]

PPN (Property People’s Network) 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 http://www.ppnonline.co.uk/ [accessed 26 June 2017]

Property Week – Commercial property news [online]. Available at http://www.propertyweek.com/ [accessed 26 June 2017]

Regeneration and Renewal – Planning magazine blog [online]. Available at http://regen.net/home/ [accessed 26 June 2017]

Revo – Retail. Property. Community (formerly BCSC (British Council of Shopping Centres) is the professional body and authoritative voice for retail property and placemaking-led regeneration and for the management of and investment in shopping places [online]. Further information available at https://www.revocommunity.org/ [accessed 26 June 2017]

RICS (Royal Institution of Chartered Surveyors) is an independent body committed to setting and upholding the highest standards of excellence and integrity in land, property and construction. See also Explore RICS [online]. Available at http://www.rics.org/uk/ [accessed 26 June 2017]
RICS Library Online catalogue – 2500 electronic documents selected and catalogued, plus books, magazine articles, law reports and transcripts [online]. Available at http://unicorn.rics.org/uhtbin/cgisirsi.exe/0/0/60/69/X [accessed 26 June 2017]

RICS Property Glossary and Guides – Glossary of Property terms and issues across the wide range of specialisms covered by chartered surveyors [online]. Available at http://www.rics.org/uk/knowledge/glossary [accessed 26 June 2017]

Royal Town and Planning Institute (RTPI) – 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 [online]. Available at http://www.rtpi.org.uk/ [accessed 26 June 2017]

Savills Research – Savills Research provides advice and analysis to clients across the UK, with specialists in commercial, residential and rural property research [online] and available at http://www.savills.co.uk/research/uk.aspx [accessed 26 June 2017]

Specification Online – the free to use news and online products resource for specifiers working across the architectural and building sector [online] and available at http://specificationonline.co.uk [accessed 26 June 2017]

Supply Chain Sustainability School – The 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 https://www.supplychainschool.co.uk/uk/default-home-main.aspx [accessed 26 June 2017]

The Telegraph – Property and construction industry: The latest news, analysis and share prices on Britain’s biggest construction and property companies [online]. Available at http://www.telegraph.co.uk/property-and-construction-industry/ [accessed 26 June 2017]

UCEM (University College of Estate Management) is the leading provider of supported distance learning for real estate and construction professionals [online]. Available at https://www.ucem.ac.uk/ [accessed 26 June 2017]

University of the West of England (UWE), Centre for Architecture and Built Environment Research (CABER) – The 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 http://www1.uwe.ac.uk/et/research/cprc.aspx [accessed 26 June 2017]

UWE Educational Resources for the Built Environment (ERBE) – The 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 http://www1.uwe.ac.uk/et/cp/erbe.aspx [accessed 26 June 2017]

UWE, ERBE, The Video Project produces films on building construction, history and conservation. Established in 1992 and has produced over 30 films which are widely sued nationally and
internationally at all levels of academia, CPD and in professional practice [online]. Further information is available at http://www1.uwe.ac.uk/et/cp/erbe/constructionfilms.aspx [accessed 26 June 2017]

**UWE, ERBE, The Construction Website** is an interactive encyclopaedia covering construction, conservation and building history. It is expanded and revised on an annual basis [online]. Further information is available at http://www1.uwe.ac.uk/et/cp/erbe/constructionweb.aspx [accessed 26 June 2017]

**UWE, Research Repository (CPRC)** – Providing immediate world-wide open access to all of UWE’s research output [online]. Available at http://eprints.uwe.ac.uk [accessed 26 June 2017].

**Virtual Training Suite** - This website provides a set of free Internet tutorials to help students develop their Internet research skills for a particular university course [online]. Available at http://www.vtstutorials.co.uk/ [accessed 26 June 2017]

**ZETOC: The monitoring and search service for global research publications, providing access to over 29,000 journals and more than 52 million article citations and conference papers through the British Library’s electronic table of contents [online]. Available at http://zetoc.mimas.ac.uk/ [accessed 26 June 2017]

*The web links provided were correct at time of compilation.*

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