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UCEM
UNIVERSITY COLLEGE
OF ESTATE MANAGEMENT

e-bulletin

January 2017

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](#)

As this is the first e-bulletin for 2017, can I take this opportunity to wish you all a very Happy, Healthy and Prosperous New Year!

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[Housing – guidance: Estate Regeneration Fund](#)

[Good Practice Guide to Estate Regeneration](#)

[Monitoring poverty and social exclusion 2016 \(MPSE\)](#) – Latest report from the Joseph Rowntree Foundation (JRF)

[Access to The Joseph Rowntree Foundation’s latest research reports and comments relating to policy and practice](#)

[Building Services Research and Information Association guidance incl. Health and wellbeing – residential](#)

[Analysis: Slow going for UK housing in 2017](#)

[Key Themes in UK Real Estate](#) – Latest research from Savills UK

[Royal Town Planning Institute’s \(RTPI\) 16 Ways to Address the Housing Crisis: #RTPI16Ways](#)

[UK housebuilding remains buoyant but overall construction output falls in October 2016, says Office for National Statistics \(ONS\)](#)

[Barbour API’s ‘Economic and Construction Market Review’](#) – Report

Access to the House of Commons Library, Research briefings that impact on our industries incl. [The Construction Industry: statistics and policy](#)

[Latest research briefing papers from the House of Commons Library](#)

[New CIOB \(Chartered Institute of Building\) portal on government policy](#)

[Social Mobility in Construction: Building routes to opportunity](#) – December 2016

[Productivity in Construction: Creating a framework for the industry to thrive](#)

[Building a Fairer System: Tackling Modern Slavery in Construction Supply Chains](#)

[Home Builders Federation \(HBF\) Reports and Housing Calculator](#)

[Five urban infrastructure projects for 2017](#)

[ESH Build starts construction work on £2.5m STEM centre at Northumberland College](#)

[Willmott Dixon builds career foundations for students with tour of £31m Birmingham University extension](#)

[Scotland’s apprenticeship levy spending must focus on construction, says the Federation of Master Builders \(FMB\)](#)

[Q&A briefing: How will the new apprenticeship levy affect the construction industry?](#)

[UCEM Trailblazer Apprenticeship programme for the surveying sector](#)

[UCEM Accreditation and recognition](#)

[Bonfield Review recommends a retrofit quality mark](#)

[New construction pay index reveals earnings winners and losers across England and Wales](#)

[Further information on Designing Buildings Wiki](#) – The construction industry knowledge base incl. Featured articles, and news.

[The Construction Information Service \(CIS\) - Briefing 11/2016 –](#)

- A discussion of photovoltaics, both inorganic and organic, exploring current and future technologies and offering a bit of guidance on how to select the best type of solar panel for a project,

as well as listing current awareness, industry news and the latest documents added to The Construction Information Service for the past month.

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

[Access to The Smith Institute’s latest research reports](#) incl.

- [Pricing Londoners in, not out: mapping where new affordable homes in London could be built](#)
- [#notjustforboys / women in construction](#),
- [Devo-housing: the emerging agenda](#),
- [Towards a suburban renaissance: an agenda for our city suburbs](#),
- [Britain for sale? Perspectives on the costs and benefits of foreign ownership](#),
- [From the margins to the mainstream: a study of the prospects for shared home ownership in the North West, and](#)
- [‘The productivity puzzle’ A view from employees](#)

[The National Trust \(NT\) - Big Issues \(incl. ‘Transport & Tourism’ and ‘Land-use & planning’\) and their views](#)

[The NT Big issues - Transport & Tourism](#), incl.

[Assessing the environmental impact of HS2](#)

The NT Big issues – [Land & Landscape \(incl. Land-use & planning\)](#)

[Why the National Trust care about planning](#)

The National Trust – [“Our Planning Principles”](#),

The National Trust – [“How we engage in planning: our role as a developer”](#),

[Planning at a national level](#), and

[Planning at a local level](#).

[Take a look at Taylor and Francis Online, FREE planning and urban design series eBooks and blog](#)

[Retail Matters: Celebrating people in retail](#) - Latest research from Revo (formerly the British Council of Shopping Centres (BCSC))

[Property Data Report 2016](#) – *Facts and figures about the UK commercial property industry to year-end 2015*

[Upcoming Revo \(formerly BCSC\) research](#)

[Foster + Partners Projects including Foster + Partners’ Wuhan masterplan to go ahead](#) - Further information available and access to the following:

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

[What is Building Information Modelling \(BIM\)?](#)

[Gain access to **theNBS.com** website](#)

[NBS TV – the online video resource servicing built environment professionals](#)

[National BIM \(Building Information Modelling\) Library](#) - Latest information freely available to access and download

[The NBS BIM Toolkit Public BETA has been updated](#)

[Free access to the 'NBS International BIM Report 2016' in full](#), and

['NBS National Building Information Modelling \(BIM\) Report 2016'](#) and supporting information freely available to download

[Blogging about BIM, Construction and NBS](#)

[Back to BIM Basics](#)

[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](#)

[UCEM Library services and e-Resources](#) incl. Emerald Insight – Access provided to the 'Property Management and the Built Environment' collection

...and finally

[University buildings that break the mould – in pictures](#)



Property and Construction Statistics

[Latest UK Property Market Chart Book](#) - RICS Economic Research (2016)

[Latest Statistics from the Office for National Statistics \(ONS\)](#) incl. Office for National Statistics (ONS), *Release calendar*

[Office for National Statistics – Construction Industry](#)

[Construction Industry highlights incl. Construction Output in Great Britain: October 2016 and July to September 2016](#)

[Datasets related to the Construction Industry](#)

[Output in the Construction Industry](#) (incl. Construction Output Price Indices (OPIs): Interim Solution, Quarter 4 (Oct to Dec) 2015), Construction Statistics Development Programme – Work plan

[Construction Statistics](#), No. 17, 2016 Edition - Latest Construction Statistics release from ONS

[Latest RICS Research / Market Surveys](#) available incl. *UK Residential Market Survey* (2016)

[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



e-Journal review

- RICS [Modus](#) Digital Magazine – Dec – Jan 2016-2017: The Disruption 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](#) December 2016: the latest issue
- The Heritage Alliance's latest '[Heritage Update](#)' e-Bulletin (December 2016) – The e-Bulletin provides current awareness and industry news over a number of built environment-related fields incl. [Cultural Property \(Armed Conflicts\) Bill round table](#); [Heritage Counts 2016](#); [Historic England Research Strategy](#); [£4 million and new strategy to help public libraries prosper](#); [Andrea Leadsom on the future of the rural economy](#); [Updated Countryside Stewardship grants forms](#); [House of Lords motion to reduce its size](#); and [Government review of the Homes and Communities Agency published](#)
- [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. Click here to access the latest edition of [Open Praxis](#).
- 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
- [Journal of Property Research](#), Taylor and Francis online.

[e-Journal review archive](#)



e-Book review

(Note: Books are also reviewed within the e-Journals listed above, published by Taylor and Francis Online)

- 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
- Construction Law Review e-Book
- 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. Construction Information and Guidance available through the [Health and Safety Executive \(HSE\)](#)
2. British Council of Shopping Centres (BCSC) is now [REVO – Retail. Property. Community](#). 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, ▪ 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.

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](https://twitter.com/ElizabethLine)

Access to:

- [Surveying 2016 – RICS Careers Guide - Universities](#): Your career in land, property and construction (incl. information on UCEM)
- [RICS Careers guide – Schools](#): a perfect introduction into careers in the built environment and why surveying could be an option.



[Useful web links](#)

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Latest UCEM news

University College of Estate Management recognises Built Environment winners at its 29th Property Awards

News: 19/10/2016

- Industry leaders and UCEM alumni and students recognised for outstanding contribution to a better Built Environment
- Ros Kerslake OBE, Heritage Lottery Fund CEO, wins 2016 Property Award

University College of Estate Management (UCEM) – leading provider of supported online learning for Built Environment professionals – hosted the 29th annual prestigious Property Awards at Haberdasher’s Hall, London, on 19th October, 2016.

The UCEM Property Awards bring together leading industry figures and UCEM staff, students, alumni and Honorary Fellows to recognise exceptional careers within the Built Environment. UCEM has presented its ‘Property Award’ to a person or organisation that has made an outstanding contribution to the property sector every year since 1987 – regardless of any direct affiliation with UCEM itself. The awards also recognise UCEM alumni for their contribution, throughout their early careers, to a better Built Environment – and students whose work has been highly commended for its academic excellence.

The winner of the 29th overall ‘Property Award’ was Ros Kerslake OBE, Chief Executive of the Heritage Lottery Fund and the National Heritage Memorial Fund. Ros was awarded an OBE in this year’s (see publication date) New Year’s Honours list for her services to British heritage. This latest award recognises her continuing and excellent contribution to the Built Environment – especially within regeneration and the role it plays in making people’s lives better – as well as her work in promoting the industry amongst women.

Ros Kerslake OBE, commented, *“I’m thrilled to receive the Property Award from UCEM, and very honoured to be following in the footsteps of such luminaries of the property world. It’s particularly pleasing that the award recognises the value of work in regeneration and heritage, and the key role that they play in effective place-making”*

The winner of this year’s ‘Alumni of the year’ award was Pavel Streblov. He completed his MSc in Real Estate Management with UCEM in 2013. Since then, as a Project Manager for Penta Investments, he has been responsible for the success of the award-winning Waltrovka redevelopment in Prague – as well as several other landmark projects. In addition, Pavel is very active in the Prague real estate community and guest lectures at Charles University.

Panel Streblov, remarked, *“I am very surprised and delighted to get this award. I am proof that UCEM Alumni are truly international and that there is a growing alumni community in Central Europe.”*

The winner of the 2016 ‘Academic Excellence’ award was Deborah McGhee. She decided to continue her academic development through UCEM, while working as the Head of Estate and Property Management division within a prime London boutique agency. While undertaking an MSc in Conservation of the Historic Environment, Deborah submitted an excellent dissertation investigating the significance of Canterbury Music Hall within Britain’s cultural heritage. Deborah is currently guiding tours of London, actively engaging the wider public in our heritage.

Deborah McGhee, commented, *“Although the last seven years have required determination and perseverance, this all pales into insignificance on receiving the award for Academic Excellence. The knowledge and tools that I have gained through studying at UCEM have been the underlying factor for the success I have achieved as a property professional to date, and have provided me with the confidence and enthusiasm to continue with my professional development in the future.”*

Ashley Wheaton, Principal at UCEM, said, *“I was delighted to be in the presence of so many esteemed guests and supporters of UCEM, and recognise even more outstanding achievers within the Built Environment at our 29th Property Awards. It’s been a momentous year with ‘university college’ title, a Hong Kong office, and the move to our new HQ – for which we’ve been awarded a BREEAM rating of ‘Excellent’.*

He concluded, *“The need for highly qualified graduates in our industry has never been more apparent, and our role as an institution has never been more important in making sure we not only set an example of what can be achieved but support everyone in their Built Environment career”.*

UCEM Website, News & Events, News (2016) – *University College of Estate Management recognises Built Environment winners at its 29th Property Awards* [online]. Available at <https://www.ucem.ac.uk/news-events/news/university-college-estate-management-recognises-built-environment-winners-29th-property-awards/> [accessed 22 November 2016]

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The Perfect Blend – Blended learning now set to make teaching ever-more interactive

News: 13/10/2016

- In-keeping with today’s dynamic, fast-paced society, blended learning is a technique that is being introduced more and more, says Lynne Downey, Head of Online Learning at University College of Estate Management (UCEM)

In this article Lynne answers the following questions put to her...

- What is Blended Learning and How does it work?
- How can we make the most of this evolving teaching and learning technique?
- How has blended learning evolved in recent years, and where can it go from here?
- Is blended learning more suited to universities rather than schools?
- How does it differ from the flipped learning technique?

- What are the benefits to teachers and to learners?

Within this issue of Education Technology journal there is a special feature and opinions gained on Blended Learning looking at

- Blended Learning – The new normal: Blended learning is the natural next step to making teaching more interactive, finds Hannah Vickers, pp46-49
- Blended Learning – The best of both worlds, by Microsoft Teacher Ambassador, Natalie Burgess, p46
- The Perfect Blend, by UCEM's Lynne Downey, Head of Online Learning and UCEM (as mentioned above), p50, and
- Blended learning – the case for a reboot, by David Banbridge, CEO and Founder of Knowledgeemotion. If we get blended learning right, it may inspire a generation to learn as intuitively as they browse, p51

Education Technology, Issue 25, October – November 2016, www.edtechnology.co.uk | @Educ_Technology | <http://flickread.com/edition/html/index.php?pdf=57f67a08c15d8#50> . Please note: Direct links are also provided via UCEM SharePoint News.

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University College of Estate Management moves to new, fully sustainable premises

News: 09/09/2016

- UCEM office refurbishment receives certified BREEAM 'Excellent' sustainability rating, highest in the UK education sector

- Reading now home to two universities with arrival of the university college in the town centre

University College of Estate Management (UCEM) – leading provider of supported online learning for Built Environment professionals – has announced, that after more than four decades based on the Whiteknights Campus, it has moved to new premises in the centre of Reading.

After receiving 'university college' status last year, this move marks the next step in UCEM's development – and further establishes its independence as the leading provider of online education for the Built Environment. The move has also provided UCEM with the opportunity to showcase its commitment to sustainable construction, by refurbishing its new premises – christened Horizons – to the highest levels of sustainability. The property has been assessed and certified as 'Excellent' on the prestigious BREEAM rating scale (the world's leading sustainability assessment method); it's one of the highest scores recorded in the UK, under the dedicated 'Refurbishment and Fit Out Scheme 2014', and currently the highest in the education sector.

The sustainability measures UCEM has incorporated into the existing 1980s building – with support from Overbury, office refurbishment specialists – include solar panels, energy-efficient heating and cooling systems, low-power LED lighting, water control sensors, recycled waste, sparrow boxes, environmentally friendly VOC free paint, and even carpets harvested from discarding fishing nets, while future plans include beehives. And UCEM's sustainability commitment isn't confined to the site itself, in addition, a range of sustainable transport options for staff have been implemented; including 'green' transport subsidies for bus and train travel, a cycle to work scheme, and electric car terminals.

The grand opening, on 8th September 2016, was officiated by the Mayor of Reading who performed the ribbon cutting. He declared the new office open, and welcomed UCEM into the centre of Reading. Martin Townsend, Director of Sustainability at the British Research Establishment (BRE), officially presented the BREEAM Excellent certificate.

Martin commented, *"I would like to congratulate everyone involved in this project for securing BREEAM Excellent rating, and with such a high score. This building is an exemplary example of sustainable development and a showcase of what can be created through close collaboration and working towards a common goal."*

Ashley Wheaton, Principal at UCEM, said, *"We are delighted to have been officially welcomed by the Mayor into our new home in the centre of Reading – and the award of an 'Excellent' under the BREEAM certification standard makes this an extra special occasion. We are very proud of the efforts we have made in regards to upholding our commitment to sustainability, and are honored to be recognised by BRE in this way."*

He added, *“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. And created an amazing environment for our staff, and their health and wellbeing. As one of the two Universities in Reading we are looking forward to a long and happy future at Horizons.”*

Further information and accompanying photos for the official opening are available on the

UCEM Website, News & Events, News (2016) – *University College of Estate Management moves to new, fully sustainable premises* [online]. Available at <https://www.ucem.ac.uk/news-events/news/university-college-estate-management-moves-new-fully-sustainable-premises/> [accessed 19 October 2016]

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University College of Estate Management partners with Eastleigh College to deliver apprenticeship training

News: 22/06/2016

University College of Estate Management (UCEM) – a leading provider of supported online learning for the Built Environment – announced on the 22nd June 2016, its partnership with Eastleigh College, to deliver quality apprenticeship training.

This is in line with the Government’s aim to make apprenticeships an attractive path to a successful career, while making the UK workforce better skilled and more competitive. The Government’s Apprenticeship Levy – to fund new apprenticeships – is coming into effect from 6 April 2017. The levy will affect UK employers in all private and public sectors – however, only employers in all private and public sectors – however, only employers with a gross annual pay bill in excess of £3 million will have to pay the levy.

UCEM is making sure it’s ready to assist employers with those changes in advance of 2017; its apprenticeship offering is very closely aligned to the apprenticeship standards, and its partnership with Eastleigh College will help UCEM to work with even more employers. The college is one of the largest providers of work-based training in the UK, with over 50 years’ successful experience it supports over 20,000 learners annually to gain nationally recognised qualifications.

As a lead apprenticeship provider, Eastleigh College collaborates with a range of training provider partners to deliver apprenticeships across the UK – acting as the conduit for funding via the Skills Funding Agency. While UCEM will provide the academic teaching, it will work with the college to advertise vacancies, find the screen applicants, and match apprentices to an employer. The college will also help with student data collection and analysis – enabling UCEM to help employers fulfil quality apprenticeships.

The initial apprenticeship offer through this partnership is:

- Level 3 Surveying Technician Apprenticeship leading to AssocRICS
- Level 6 Chartered Surveyor Apprenticeship leading to MRICS
- Level 6 Construction Quantity Surveyor Apprenticeship leading to MRICS
- Level 6 Construction Site Management Apprenticeship leading to MCIQB

The Surveying Technician and Chartered Surveyor Apprenticeships each offer building surveying, quantity surveying and real estate management pathways. All Level 6 apprenticeships include a UCEM BSc (Hons) degree that is accredited by The Royal Institution of Chartered Surveyors (RICS) and/or the Chartered Institute of Building (CIOB)

The partnership will provide the following features and benefits:

- A fully managed apprenticeship support service led by UCEM and underpinned by Eastleigh College’s role as the lead provider
- Access to the latest Built Environment apprenticeships that include professional body membership
- Delivery of the training via UCEM’s state of the art Virtual Learning Environment, with some face-to-face workshops

- Enrolment as a UCEM and Eastleigh College learner – entitling the student to the college’s facilities and support, as well as a dedicated UCEM Apprenticeship Officer
- Access to the Government funding and, where eligible, employer incentive payments via Eastleigh College
- A rolling review process – jointly managed by UCEM and Eastleigh College – within online access to view and monitor each apprentice’s progress.

Further information and accompanying photos for the official opening ceremony are available on the UCEM Website, News & Events, News (2016) – *University College of Estate Management partners with Eastleigh College to deliver apprenticeship training* [online]. Available at <https://www.ucem.ac.uk/news-events/news/university-college-of-estate-management-partners-with-eastleigh-college-to-deliver-apprenticeship-training/> [accessed 19 October 2016]

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University College of Estate Management Collaborates with Chartered Surveyors Training Trust on Trailblazer Apprenticeship Programmes

News: 16/03/2016

University College of Estate Management (UCEM) – leading provider of supported online learning for Built Environment professionals – today announced its collaboration with Chartered Surveyors Training Trust (CSTT) to develop and deliver Surveying Technician and Chartered Surveyor apprenticeship programmes.

CSTT is an educational charity, which provides life-changing opportunities for young people aged between 16 and 24 to become Chartered Surveyors – regardless of their social or financial circumstances. UCEM’s programmes are taught by academics that are leading practitioners in their field, and are designed to meet the growing global demand from employers and students for high-quality, affordable and flexible learning.

Level 3 Surveying Technician apprentices undertake a new six module Diploma in Surveying over a two-year period. There are specialist elective modules in the second year that provide Real Estate, Quantity Surveying and Building Surveying pathway options. The taught programme is delivered through a combination of online activities – hosted on UCEM’s Virtual Learning Environment (VLE) – and monthly full-day workshop sessions; which create 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.

UCEM Website, News & Events, News (2016) – *University College of Estate Management Collaborates with Chartered Surveyors Training Trust on Trailblazer Apprenticeship Programmes* [online]. Available at <https://www.ucem.ac.uk/news-events/news/university-college-of-estate-management-collaborates-with-chartered-surveyors-training-trust-on-trailblazer-apprenticeship-programmes/> [accessed 19 October 2016]

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

UCEM website @

<https://www.ucem.ac.uk/news-events/news/celebrations-all-round-at-the-official-launch-of-university-college-of-estate-management/> [accessed 19 October 2016]

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



<https://twitter.com/StudyUCEM> [accessed 19 October 2016],



<https://www.facebook.com/StudyUCEM> [accessed 19 October 2016],



<https://www.linkedin.com/company/university-college-of-estate-management> [accessed 19 October 2016]



<https://www.youtube.com/user/cembuildingfutures/videos> [accessed 19 October 2016],

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Other news

[Things you need to know this week: Deals continue in built to rent](#)

'Things you need to know this week' is a weekly article produced by Placemaking Resource and incorporating *Regeneration + Renewal* magazine and highlights the biggest placemaking stories from the past seven days (see below mentioned publication date). Built to rent ended 2016 on a high as December saw a flurry of activity from government and developers in the evolving sector. This and other stories incl.

- **Private rented sector (PRS) developer Essential Living has agreed a £60 million development loan for its Creekside Wharf scheme in Greenwich, south east London, in the latest in a string of deals in the sector.** Essential Living's deal, funded equally by banks RBS and HSBC, will finance the development of the scheme, which is designed by Assael Architecture and is being constructed using modules. The deal comes in the same month that the government announced support for developer Dandara to deliver more than 2,000 PRS homes in Leeds, Manchester and Birmingham. Investor Legal & General Investment Management (LGIM) has also raised £170 million for a new build to rent fund. The LGIM Real Assets build to rent platform now has more than 1,000 homes under construction or in planning in Bristol, Salford and Walthamstow in London, and has future projects planned in Birmingham, Leeds and the capital.
- **The government is to offer £32 million in grant funding alongside its £140 million loan fund to regenerate deprived housing estates, and is inviting councils, housing associations and developers to [bid for a share](#) of the pot.** The announcement of the new grant funding coincided with the launch of a government strategy for estates regeneration, which was developed by an independent advisory panel, chaired by Lord Heseltine and housing minister Gavin Barwell. The strategy gives practical advice on areas such as resident engagement and protection, and highlights good practice. The new £32 million grant funding is mostly for enabling works, such as viability assessments and masterplanning.
- **Also this week (see publication date), London mayor Sadiq Khan has set out plans to allow tenants the right to be rehoused on newly regenerated estates, in draft guidelines on good practice in estate regeneration.** The guidance also says that demolition and rebuilding should only go ahead after other ways of achieving regeneration have been exhausted, and where there is no loss of social housing. The guidelines will be included in conditions for City Hall funding for new estate regeneration projects, and will be applied through the planning system where possible, as well as providing a benchmark. [The consultation](#) on the draft guidelines closes on 14 March 2017.
- **Brighton & Hove City Council has approved plans to establish a joint venture with affordable housing provider Hyde Housing that could deliver 1,000 low cost homes.** The enterprise, called the Living Wage Joint Venture, is expected to acquire land and develop homes for rent and sale for low income working households, while generating a long term income for the council. Brighton & Hove has a relatively low level of social housing, with 9.8 per cent of homes owned by the local authority and just over 5 per cent by registered social landlords.
- **Glasgow City Council's city deal cabinet has approved £15 million funding to develop the next stage of its city centre infrastructure project.** Infrastructure works to be carried out include improvements to public realm, provision of smart infrastructure, such as surface water management systems and adaptable lighting systems, creation of avenues of trees and introduction of segregated cycle lanes.

Source: **Placemaking Resource** (incorporating *Regeneration + Renewal*), Smit, J., 14 December 2017, *Need to know: Deals continue in built to rent* [online]. Further information available at <http://www.placemakingresource.com/article/1418859/need-know-deals-continue-build-rent> [accessed 03 January 2017]

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Related Links:

Housing – guidance: [Estate Regeneration Fund](#)

– Fund designed to accelerate and improve estate regeneration schemes.

GOV.UK, Department for Communities and Local Government, and Homes and Communities Agency, 8 December 2016, Part of: Funding programmes (Applies to: England), Housing - guidance: *Estate Regeneration Fund* [online]. Available at <https://www.gov.uk/government/publications/estate-regeneration-fund> [accessed 3 January 2017]

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[Good Practice Guide to Estate Regeneration](#)

The Mayor of London wants to ensure that regeneration of London’s housing estates happens with resident support and engagement. This is part of **Homes for Londoners**, which brings together all of the Mayor’s work to tackle the housing crisis.

He has set out key principles that he wants followed in all estate regeneration projects. These say that regeneration should only happen where:

- There is a clear statement of the aims and objectives of the borough or housing association in maintaining and improving at housing estates
- There has been full and transparent consultation and resident engagement
- Proposals should offer full rights to return for displaced tenants and a fair deal for leaseholders
- Demolition should only be followed where it does not result in a loss of social housing, or where all other options have been exhausted

Access to the draft *Good Practice Guide to Estate Regeneration* is available via Mayor of London, London Assembly [online]. Available at <http://www.london.gov.uk/what-we-do/housing-and-land/improving-quality/good-practice-guide-estate-regeneration> [accessed 3 January 2017].

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Monitoring poverty and social exclusion 2016 (MPSE)

- This latest annual report from the New Policy Institute brings together the most recent data to present a comprehensive picture of poverty in the UK.

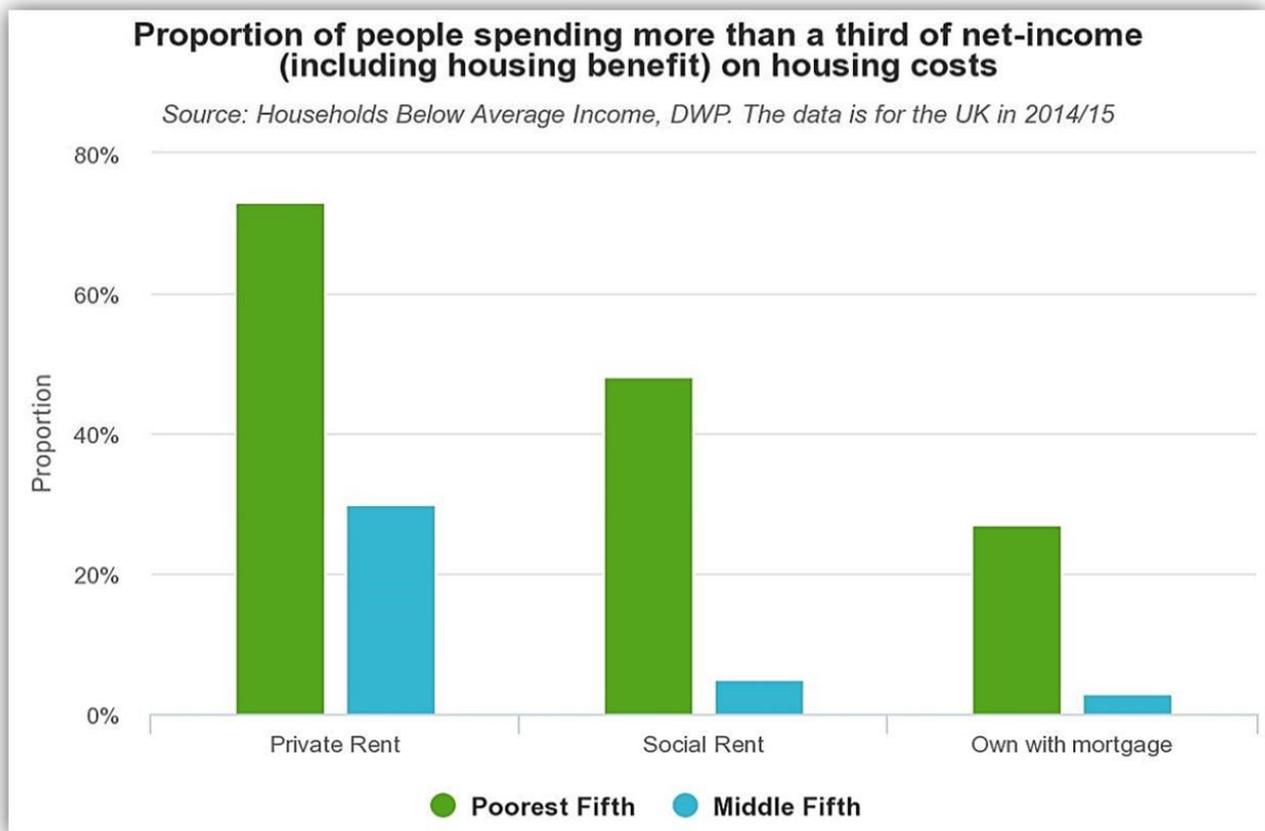
Key points incl.

- In 2014/15, there were 13.5 million people living in low-income households, 21% of the UK population. This proportion has barely changed since 2002/03.
- The number of private renters in poverty has doubled over the last decade. There are now as many private renters in poverty as social renters. Rent accounts for at least a third of income for more than 70% of private renters in poverty.
- The number of households accepted as homeless and the number of households in temporary accommodation have both increased for five years in a row. Evictions by landlords are near a ten-year high.
- The proportion of working-age adults in employment is at a record high. Full-time employees account for 62% of the growth in jobs since 2010. The proportion of young adults who are unemployed is the lowest since 2005.

- The number of people in poverty in a working family is 55% - a record high. Four-fifths of the adults in these families are themselves working, some 3.8 million workers. Those adults that are not working are predominantly looking after children.
- 1.4 million children are in long-term workless households, down 280,000 in four years. Excluding lone parent families with a child under five, 55% of these children have a disabled adult in their household.
- Once account is taken of the higher costs faced by those who are disabled, half of people living in poverty are either themselves disabled or are living with a disabled person in their household.

Housing

Figure 1: Private renters are much more likely to spend at least a third of their income on housing than households in another tenure with the same amount of income



Source: Households Below Average Incomes, DWP; the data is for 2014/15 for the UK, and JRF (2016), *Monitoring poverty and social exclusion 2016* [online]. Available at <https://www.jrf.org.uk/report/monitoring-poverty-and-social-exclusion-2016> [accessed 8 December 2016]

Failures in the housing market are a significant driver of poverty. This is primarily, but not entirely, due to costs. Housing costs are higher as a proportion of income for poorer households, and more so for renters. More than 70% of private renters in the poorest fifth spend at least a third of their income on housing, compare with under 50% in the social rented sector and 28% for those who own their own homes.

Experience of the housing market is increasingly determined by tenure. In 2010/11, the number of landlord evictions and mortgage repossessions were both around 23,000. In 2015/16, there were 37,000 landlord evictions and 3,300 mortgage repossessions. 58,000 households were accepted as homeless in 2015/16, an increase of almost 50% compared with five years earlier. The most common cause of homelessness is the end of a shorthold tenancy or rent arrears.

Households placed in temporary accommodation have also risen each year since 2011, though they remain below the levels of the mid-2000s. Three-quarters of those in temporary accommodation are from London.

Further information can be viewed at:

Tinson, A., Ayrton, C., [et al.], 7th December (2016), *Monitoring poverty and social exclusion 2016* [online], Joseph Rowntree Foundation. Available at <https://www.jrf.org.uk/report/monitoring-poverty-and-social-exclusion-2016> [accessed 08 December 2016]

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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

Cities, Towns and Neighbourhoods covering:	Housing covering:	Income and Benefits covering:	People covering:	Society covering:	& Work covering:
Cities	Affordable housing	Debt	Active citizenship	Ageing society	Employment
Climate change	Care homes	Food	Ageing population	Austerity	Equality
Devolution	Home ownership	Living standards	Carers	Civic participation	Forced labour
Economic Development and Local Growth	Homelessness	Living wage	Child poverty	Crime / Anti-social behaviour	Labour markets
Flooding	Housing regeneration	Minimum income standards	Children	Faith and religion	Low pay
Loneliness	Housing market	Pay	Dementia	Government	Retirement
Neighbourhoods	Housing providers	Pensions	Disabled people	Immigration	Skills
Planning	Private rented sector	Personal Finance	Divorce / Family breakdown	Local government	Volunteering
Public Spaces	Retirement housing	Tax	Drugs / Alcohol	Localism	Working with employers
Regeneration	Social housing	Unemployment	Education	Riots	
Services and local government	Tenant participation	Universal credit	Ethnicity	Slavery	
Transport	Tenants		Gender	Social exclusion	
			Independent living	Voluntary sector	
			Lone parents		
			Mental health		

			Migration		
			Older people		
			Sexuality		
			Social care		
			Young people		

Joseph Rowntree Foundation website, About us [online]. Further information is available at <https://www.jrf.org.uk/about-us> [accessed 22 November 2016]

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Health and wellbeing - residential

- Designing homes for the present and the future

With an increased housing demand in the UK, government research indicates that around 200,000 new homes a year should be built to avoid a housing shortage.

There are around 27.8 million residential properties in the UK, with the majority of them constructed before 1990. According to the Department for Communities and Local Government (DCLG) housing statistics the number of permanent dwellings completed between 1978 and 2015 was around 7.32 million.

The houses we design and built last for decades and are the places we spend most of our time. Our health and wellbeing depends on the quality of the environment we live in, which makes it increasingly important that we consider a number of aspects when either designing new or retrofitting existing residential properties.

Built to address a number of needs, homes accommodate a variety of household and resident types with varying needs, incomes and daily routines. Climate change and changes in the urban environment add an additional layer of complexity when considering resilient home designs. Design strategies used by developers and architects today need to consider both adaptability and performance of the home in the future to deliver a product 'fit for purpose'.

With new advanced digital performance estimation tools, innovative construction systems, new materials in the market and an increasing understanding of various issues around home construction through research, the building industry today has an inherent advantage compared to the construction industry of the past.

Building homes that consider both the present and the future can be challenging. It is commonly perceived that anything outside business as usual can lead to higher construction costs and delays in the construction process.

Even through the learning curve may be steep on occasions, the rewards are not to be underestimated. Investing in robust delivery strategies and QA frameworks up front (streamlines processes) will save the construction stakeholders substantial time and cost in the long run as proven by a number of exemplar projects across the country that applied such principles from the start. The process itself will advance in-house knowledge and skills, improve brand reputation and make businesses resilient to future changes in regulations.

Further information on Overheating; Vulnerable groups; Ventilation and indoor air quality is available via Kougionis, T., Building Services Research and Information Association (BSRIA) Sustainable Construction Group, News, Health and wellbeing - residential (n.d.) [online]. Further information is available at

<https://www.bsria.co.uk/news/article/health-and-wellbeing-residential/> [accessed 3 January 2017]

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Analysis: Slow going for UK housing in 2017

- Minimal house price growth is predicted for the year ahead, and that could put hopes of increasing housebuilding numbers on hold.

Pity the housing market forecasters. The annual challenge of divining the prospects for the housing and property market in 2017 has been made far tougher by the mounting political dramas of 2016. We stand on the cusp of a new year (see publication date), and we have in prospect Brexit, the arrival of new US president Donald Trump, and government elections across Europe.

Small wonder, then, that political and economic uncertainties dominate perspective of 2017. Although the UK economy has proved fairly resilient following the decision to leave the EU in the summer referendum, forecasters

are sounding a note of caution about the future. “As inflation rises, real incomes will come under pressure and consumer spending should soften,” says Tim Drayson, head of economics at Legal and General Investment Management, which has just announced £170 million for a new build to rent fund. “We also expect weak business investment and less employment growth of uncertainty around the UK’s future relationship with the EU leads to a deferral of expansion plans.”

Minimal price growth – The Royal Institution of Chartered Surveyors’ (RICS) housing market survey has discerned a slowdown in transaction activity since the spring. Simon Rubinsohn, chief economist at RICS, says, “Although there are some signs that the numbers may begin to edge upwards in the new year, the combination of macro-uncertainty, the ongoing supply shortfall, with stock levels around historic lows, and the myriad of tax changes impacting on buyers, suggest that any pick-up in activity will be relatively modest.”

Reasons to be cheerful – Emerging housing policy, both in central government and London, is signaling a change in approach. Theresa May’s government is encouraging a broader mix of tenures, and the London mayor is promoting affordable housing with the revised draft London plan.

While caution is a word that recurs in property consultant Savills’ future gazing report, *Key themes in UK real estate*, it highlights several key areas of opportunity for 2017. These include urban mixed use development in Birmingham, Manchester and Leeds, on the back of the HS2 rail link and the rise of the core cities, and student and multi-family developments in the core cities. Savills director of residential research, Lucian Cook, says government efforts to streamline planning could increase opportunity to unlock development land, once that caution has been overcome.

Smit, J., (2016), ‘Analysis: Slow going for UK housing in 2017’, Placemaking Resource incorporating *Regeneration & Renewal* [online], 14 December. Available at: <http://www.placemakingresource.com/article/1418880/analysis-slow-going-uk-housing-2017> [accessed 3 January 2017]

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Key themes in UK Real Estate

- Savills Head of Research identify important trends in UK real estate over the year ahead

Remaining resolute

What a 12 months we have had, a Brexit referendum, a Trump election and the prospect of real uncertainty in the European elections in 2017. “Expect the unexpected” is now the normality, not the exception.

Despite all this uncertainty, property remains a fundamentally safe asset class, giving strong income returns in many cases is a refuge for capital preservation in the longer term, its appeal remaining resolute.

In the lead up to the EU referendum, markets were strong, the drop in transactional volumes primarily down to lack of liquidity as opposed to waning investor appetite. Some market sectors were experiencing head winds with the absorption of higher stamp duty rates as well as concerns on rental growth in some sectors which would be hit by the rating revaluation.

The seismic shock of Brexit vote brought transactional activity in many cases to a juddering halt, a pause at least to reconsider pricing as opposed to pulling out of deals. The much heralded run on the retail funds was headline news for several months, but after the shock, the realisation that “life in the property world goes on”, with all the retail funds now re-opened and trading.

Nationally, the markets continue to appear robust in all sectors, although there remains some hesitation on what Brexit will mean in the financial markets, around Biomed and also in an Agricultural market place without EU subsidies.

The sterling devaluation has made UK property very attractive for international investors pegged to the US dollar or euro, with activity in central London likely to be dominated by Asian investors, with American and pan-European investors also strong nationally.

Articles from ‘*Key Themes in UK Real Estate 2016/17*’ include

- A question of risk and return – Political and economic uncertainties will dictate the patterns of property investment over the next five years
- **What are the top picks for 2017 – Leading Savills experts, across all sectors, select top picks for the forthcoming year**

- Commercial – Mat Oakley’s six key themes for 2017 and beyond
- Residential – Lucian Cook’s six key themes for 2017 and beyond
- Rural – Giles Hanglin’s six key themes for 2017 and beyond

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 [accessed 3 January 2017]

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Royal Town Planning Institute’s 16 Ways to Address the Housing Crisis: #RPTI16Ways

On 4 November 2016 the RTPI launched its ‘16 Ways in 16 Days’ campaign which outlines the Institute’s recommendations for tackling the housing crisis in England. Follow [#RPTI16Ways](#) on Twitter and join the debate. Chief Executive Trudi Elliott has written to the UK Minister for Planning and Housing, Gavin Barwell ahead of the release of the Housing White Paper for England, to re-affirm the RTPI’s 16 point action plan to help the Government achieve its ambitious house building targets.

The RTPI has a number of policies that address the complex set of issues around creating more housing whilst maintaining and improving places:

1. **Offer ready permitted sites to SME builders** and support them in the new industrial strategy.
2. **Keep Housing Associations building** – Housing Associations helped to get the industry through previous downturns and keep us building homes; they need to be supported to do so again.
3. **Let Local Authorities charge the planning fees they need** to properly resource their planning service. Developers will pay for an efficient and responsive service. Planning departments have suffered greater cuts than other local authority functions, it has to stop and be reversed.
4. **Require a city region wanting a devolution deal** with government on jobs infrastructure and other funding to have a plan to deliver the supporting homes required by those jobs. Money talks.
5. **Make Land Registry an open data organisation.** In order to strategically plan for houses we need data on who owns the land and where.
6. **Create a fiscal regime that encourages “Build to Rent”** – We are a complete outlier as a nation in failing to supply purposes-built properties to rent with longer term security.
7. **Government must provide stronger direction on suitable land for housing** – Think widely and carefully about where we build new homes. Brownfield land should be made to achieve its full potential. Involve communities in places which are undergoing regeneration. Some housing may need to go on greenfield – so long as planned properly. Green belts must work well for everyone in society – across wider subregions.
8. **Encourage innovation in climate change mitigation** and energy efficiency in the industrial strategy. We need mechanisms to improve the energy efficiency of the existing housing stock, and policies which ensure that new homes are compliant with our carbon reduction targets. This should form a core part of the industrial strategy.
9. **Make more of the existing housing stock**, pay attention to how the rental market and structure, and how taxation and housing benefit policy drives behaviours and the market. We must recognise the true value of planning is in the long term creation of great places, increasing certainty for everyone, and market shaping so the market works more effectively for all.
10. **Find innovative ways of funding affordable housing** elements of consented developments to keep them delivering. We must learn lessons from the 2008 financial crisis and cannot let the challenges that major house builders will face in a downturn result in whole developments being stalled. Too much of planners’, developers’ and councillors’ time was wasted during the post-crash recession arguing over which element of a permitted housing scheme was cut to make it stack up financially. Almost a decade on the housing crisis has deepened.
11. **Invest in the next generation of those who will make housing happen** – Government has backed out planner’s bursary scheme; we need to make working in the built and natural environment open and inspiring to all.
12. **Get the public sector building** – Local authority-commissioned home building has to be part of the solution. The LGA and the Federation of Master builders have stepped up already and said they are up for it. Cleverly used it can create markets and support private sector provision. It’s not either / or.

13. **Align transport infrastructure and housing delivery more effectively** – Start by assessing infrastructure projects for the development land they unlock, not just their impact on speed and congestion. Longer term proper spatial planning is a key tool.
14. **Allow Planning Inspectors to find local plans partially sound** – Don't let problems with one small policy area hold up a Local plan having the weight it needs in steering where homes go.
15. **Encourage local authorities to be proactive in land assembly** to unblock land for homes as well as wider socially and economically beneficial development.
16. **Intervene in the land market and capture the benefits from transport investment** – In the longer term we need to explore the operation of the land market, an issue explored by the House of Lords in their report on the economics of housing. We need to capture some of the increase in land value particularly from public investment so we can fund affordable housing and the infrastructure good places and homes need.

The current system in England results in too much of planners' time being spent arguing the theoretical number of "housing units" a local authority area needs. The focus must shift to delivering the homes the country needs to include different tenures and in ensuring appropriate places to build them on.

RTPI - Royal Town Planning Institute (2016), 'Royal Town Planning Institute's 16 Ways to Address the Housing Crisis: #RTPI16Ways' [online]. Further information is available at <http://www.rtpi.org.uk/briefing-room/news-releases/2016/november/rtpi%E2%80%99s-16-ways-to-address-the-housing-crisis-rtpi16ways/> [accessed 13 December]

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UK housebuilding remains buoyant but overall construction output falls in October, says Office for National Statistics (ONS)

Despite a slowdown in overall construction output house building remained strong in October, which demonstrates the continuing importance of the sector on overall levels of activity, says Phil Harris, head of sales at BLP Insurance.

According to the Office for National Statistics (ONS), the construction sector shrank by 0.6 per cent in the 10th month of the year. However, private new housing increased by 2.4 per cent in October when compared with September, accounting for around 87 per cent of all new housing, while public new housing fell by three per cent. According to the report, all new work decreased by 0.9 per cent with infrastructure seeing the biggest downward trend, while repair and maintenance showed no growth. However, year-on-year construction output increased by 0.7 per cent, while all new work, led by an increase of 12.6 per cent in new housing, increased by 2.9 per cent when compared with October 2015 with repair and maintenance falling by 3.2 per cent.

New orders in Quarter 3 were estimated to have decreased by 2.4 per cent compared with Quarter 2 (Apr to June) 2016.

Builder&Engineer (2016), 'UK housebuilding remains buoyant but overall construction output falls in October' [online]. Further information is available at <http://www.builderandengineer.co.uk/news/uk-housebuilding-remains-buoyant-overall-construction-output-falls-october-says-ons> [accessed 13 December 2016], *Builder&Engineer*, 12 December.

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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 3 January 2017]

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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*.

Rhodes C (2015), *Construction industry: statistics and policy*, House of Commons Library, Briefing Paper Number 01432, 6 October 2015 [online] and available at

<http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN01432> [accessed 3 January 2017]

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 2016** –

House prices (UK): Social Indicators page [21 December 2016]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02645> [accessed 23 December 2016]

Leasehold and Commonhold Reform [21 December 2016]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02645> [accessed 23 December 2016]

What is affordable housing? [17 November 2016]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7747> [accessed 23 December 2016]

Neighbourhood Planning Bill: Report on Committee Stage [16 November]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7760> [accessed 23 December 2016]

Housing Market: Key Economic Indicators [16 November]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02820> [accessed 23 December 2016]

Overcrowded housing (England) [14 November]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN01013> [accessed 23 December 2016]

Housebuilding (UK): Social Indicators page [1 November]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02644> [accessed 23 December 2016]

- Under **Energy and environment 2016** –

Social Indicators 2016 [9 December]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7381> [accessed 23 December 2016]

Flood risk management and funding [9 December]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7514> [accessed 23 December 2016]

The weather in the home countries [12 October]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN04319> [accessed 23 December 2016]

Archive:

- **Housing Market: Key Economic Indicators** [April, 2016] [online]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02820> [accessed 23 December 2016]
- **Implementation of Sustainable Development Goals** [April, 2016] [online]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/CDP-2016-0080> [accessed 23 December 2016]
- **Flood insurance** [April, 2016] [online]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN06613> [accessed 23 December 2016]
- Flood risk management and funding [31 March 2016] [online]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7514> [accessed 23 December 2016]
- Planning: change of use [30 March 2016] [online]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN01301> [accessed 23 December 2016]
- Permitted Development Rights [30 March 2016] [online]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN00485> [accessed 23 December 2016]
- Planning Reform Proposals [30 March 2016] [online]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN06418> [accessed 23 December 2016]
- **House Prices: Social Indicators** [March, 2016] [online]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN02645> [accessed 23 December 2016]
- Reviewing and reforming business rates [18 March 2016] [online]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7538> [accessed 23 December 2016]
- Enterprise Zones [17 March 2016] [online]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN05942> [accessed 23 December 2016]
- Neighbourhood Planning [14 March 2016] [online]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN05838> [accessed 23 December 2016]
- **Budget 2016: A summary** [March, 2016] [online]. Further information is available at <http://researchbriefings.parliament.uk/ResearchBriefing/Summary/CBP-7536> [accessed 23 December 2016]

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 23 December 2016]

- 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:

Source: Heritage Update e-Bulletin [online], Issue **No 322**, 29 April 2016, The Heritage Alliance. Available at: <http://www.theheritagealliance.org.uk/heritage-update> [accessed 23 December 2016]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at <http://www.theheritagealliance.org.uk/update/> [accessed 23 December 2016]

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[New CIOB \(Chartered Institute of Building\) portal on government policy](#)

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 [23 December 2016](#), Policy latest incl.

- **Social Mobility and Construction: Building routes to opportunity** (see below)
- **Autumn Statement 2016: Chancellor right to place productivity centre stage, says CIOB**
- **Productivity in Construction: Creating a Framework for the Industry to Thrive** (see below), and
- **Building A Fairer System: Tackling Modern Slavery in Construction Supply Chains** (see below), and

Source: CIOB - Chartered Institute of Building's Policy and Public Affairs website [online]. Further information is available at <http://policy.ciob.org/> [accessed 23 December 2016]

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[Social Mobility and Construction: Building routes to opportunity](#) - December 2016

Summary

This report highlights the critical role that construction plays in reversing the declining levels of economic and social mobility in the UK.

The report, ***Social Mobility and Construction: Building Routes to Opportunity*** contains a specially commissioned survey of 1,094 working adults. Results show how among the UK industries, construction ranks near the top of social and economic mobility. And while other industries, construction tanks near the top for social and economic mobility. And while other industries, such as manufacturing, have shed skilled workers, the construction industry maintains a third of all employment in this occupation group. These skilled trades not only provide social status and solid earning in themselves, but provide many with an opportunity and a platform for progression within their career, from the trades through to management and professional roles.

Commenting on the report, **Paul Nash, President of the CIOB** said: *"I joined the construction industry at 19 as a management trainee with a construction company; I went on to gain a post-graduate qualification through advice from my professional body. I now sit here as President of the CIOB. I never thought I'd be in the position I am today but stories such as mine show the quality of opportunity that exists in construction."*

The findings also demonstrate the links between the actual built environment and social mobility: a better built environment, including schools, hospitals, homes and infrastructure, provides greater opportunity for economic and social progression. Essentially the shaping of the built environment plays a big part in how these opportunities are distributed and how they impact on our well-being and life chances.

The report finds makes a list of recommendations for business, industry, professional bodies and government, namely:

Construction business

- Focus on better human resource management
- Introduce and/or expand mentoring schemes
- Boost investment in training

- Develop talent from the trades as potential managers and professionals
- Engage with the community and local education establishments

Industry

- Rally around social mobility as a collective theme
- Promote better human resource management and support the effort of businesses
- Promote and develop the UK as an international hub of construction excellence
- Support diversity and schemes that widen access to management and the professions
- Emphasise and spread understanding of the built environment's impact on social mobility

Professional bodies and institutions

- Drive the aspirations of Professions for Good for promoting social mobility and diversity
- Support wider access to the professions and support those from less-privileged backgrounds
- Promote and develop the UK as an international hub of construction excellence
- Emphasise and spread understanding of the built environment's impact on social mobility
- Provide greater routes for degree-level learning among those working within construction

Government

- Produce with urgency a plan to boost the UK as an international hub of construction excellence, as a core part of the Industrial Strategy
- Provide greater funding to support the travel costs of apprentices
- Support wider access to the professions and support those from less-privileged backgrounds
- Place greater weight in project appraisal on the impact the built environment has on social mobility.

Source: Green, B. (2016), 'Social Mobility and Construction: Building routes to opportunity' [online], CIOB Policy & Public Affairs Portal, 19 December 2016. Available at: <https://policy.ciob.org/research/social-mobility-construction-building-routes-opportunity/> [accessed 23 December 2016]

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Productivity in Construction: Creating a Framework for the Industry to Thrive

- Why are we, as a nation, so engrossed in productivity at the moment? The so-called 'productivity puzzle' is a regular topic of debate, and with good cause; the latest figures, released in April 2016, show the biggest fall in UK productivity since the financial crisis in 2008.

Productivity in Construction: Creating a Framework for the Industry to Thrive, is the latest report from the Chartered Institute of Building aimed at kick-starting a wider debate into productivity, looking not just narrowly at construction's own productivity, but how the built environment supports productivity growth in the UK as a whole.

Commenting on the report Paul Nash, Senior Vice President of the CIOB said: *"Better buildings and infrastructure contribute to productivity not just through their primary function or by increasing economic output. By making people happier, safer and healthier, benefits which are often overlooked, the built environment encourages society to be more productive."*

The report uses the Government's 15-point productivity plan as a framework, illustrating how, point by point, construction acts as an agent of change to improve productivity within the wider economy, how it might improve its own internal productivity, as well as highlighting the opportunities and challenges in delivering improvement.

The report also suggests that current statistical data which measure construction's productivity can be misleading. When the value of design, the materials and components, and much of the plant and machinery used on site are not counted. It also questions how well the measures we see account for the improvement in quality or, for that matter, fewer site deaths.

Construction analyst and report author Brian Green further explains why caution is needed in interpreting the bald statistics: *"Firstly there's a need to measure more effectively the productivity of the whole process of*

delivering the built environment, rather than just what happens on site. Otherwise we end up missing the beneficial impacts of, for instance, better design or off-site manufacture. Secondly we need to look at what construction does rather than what it is and how it impacts on the wider economy. And, thirdly, it is worth noting that as nations develop they often choose to spend more on repairing, maintaining and adapting the existing built environment. This work tends to be more labour intensive than new work, so can have the effect of suppressing the overall labour productivity figures.

“Paradoxically, you could be building more productively to a higher quality, with innovation in design, product manufacture and construction management, while the statistics suggests the industry is becoming less productive.”

“As the OECD states, productivity is about working smarter, rather than working harder.”

Given the way we measure productivity, the path taken by the UK construction sector may well be, to some extent, inevitable. In most advanced nations productivity growth in construction is poor and has been for many years. That this is a global issue suggests that difficulties in improving productivity are likely to be within the nature of the industry rather than specifically within the UK.

The factors that can boost productivity are well known, at least in theory, and have been for many decades. This suggests the problems holding back progress lie deep within the industry.

The report seeks to identify what these factors might be, supported by **survey evidence from across the industry, policy makers and industry experts** showing a wide consensus on many of the policies that should boost construction productivity.

While the report makes a number of practical recommendations from its findings – such as tying public investment to training and job creation; developing new business models and financial models with incentives directed more towards productivity; and creating construction innovation and excellence hubs – it expresses two more fundamental concerns.

Firstly: we may be measuring productivity wrong.

The value of the design, the materials and components, and much of the plant and machinery used on site are not counted, and it's difficult to measure improvements in quality or safety.

Secondly, and perhaps more importantly, it stresses that as the quality of the output construction produces generally boost the productivity of the rest of the economy, productivity in construction should not be seen as an end in itself.

Whilst construction productivity must improve, it must improve in such a way that enhances the productivity of the whole nation. Any understanding of this should be at the heart of policy making.

Further information and access to ‘*Productivity in Construction: Creating a Framework for the Industry to Thrive*’ is available via the following:

Green B., (2016) ‘*Productivity in Construction: Creating a Framework for the Industry to Thrive*’ [online], CIOB Policy & Public Affairs Portal, 24 May 2016. Available at <https://policy.ciob.org/research/productivity-construction-creating-framework-industry-thrive/> [accessed 23 December 2016]. [Back to top](#)

[Building A Fairer System: Tackling Modern Slavery in Construction Supply Chains](#)

- The CIOB is calling for greater industry collaboration to eradicate unfair labour practices. The report, produced in consultation with a number of businesses and NGOs, examines the root causes of modern slavery and sets out priority actions for moving the industry towards greater transparency.

The Chartered Institute of Building (CIOB) is calling for greater industry collaboration to eradicate unfair labour practices. Clients and tier one organisations need to take responsibility for their supply chains. Priority should be given to tackling illegal recruitment fees, according to a new report *Building a fairer system: tackling modern slavery in construction supply chains*, launched on 13 July 2016.

The report, produced in consultation with a number of businesses and NGOs, including Amnesty International, Verité, Engineers Against Poverty and the Institute for Human Rights and Business, examines the root causes of slavery, and sets out priority actions for moving the industry towards greater transparency.

Slavery remains a problem hidden in many sectors. The International Labour Organisation estimates that there are 21 million people in forced labour around the world, generating profits in the private economy of \$150 billion. Interpol estimates that only 5 to 10 per cent of cases are ever reported.

With its fragmented supply chains, opaque procurement processes and high demand for migrant labour, the construction sector faces a unique set of challenges in tackling human rights abuses. It is a priority area for the UK's first Anti-Slavery Commissioner, Kevin Hyland OBE, who writes a foreword for the report.

Building a fairer system examines how workers from developing countries become tricked or coerced into paying illegal and extortionate recruitment fees, and, once in debt, become vulnerable to exploitation in their place of work. Abuses range from forced or bonded labour, late payment, unsanitary living conditions, unfair deductions from wages, withheld passports and loss of freedom of movement, lack of representation, violence, intimidation and physical abuse.

The report also examines how faults in the procurement process allow exploitative practices to remain hidden in building materials supply chains. It includes a series of case studies and recommendations from organisations that are working to shift cultural practices and norms:

- How ethical recruitment firm FSI Worldwide integrated cross-border operations are eradicating illegal recruitment fees
- The steps that CH2M has taken to implement a new global worker welfare policy
- Hewlett Packard's move to direct labour
- Qatar Rail's worker welfare strategy
- Marshalls' ten-year initiative to protect vulnerable children and migrant workers in stone quarrying communities
- Bechtel's "bottom up" approach to tackle exploitation in metal mining.

Further information and access to *Building a Fairer System: Tackling Modern Slavery in Construction Supply Chains* is available via the following:

Crates E., (2016) '*Building A Fairer System: Tackling Modern Slavery in Construction Supply Chain*' [online], CIOB Policy & Public Affairs Portal, 13 July 2016. Available at <http://policy.ciob.org/research/building-fairer-system-tackling-modern-slavery-construction-supply-chains/> [accessed 23 December 2016]

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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 Nathaniel 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 3 January 2017]

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Five urban infrastructure projects for 2017

- Infrastructure lies at the heart of the UK's economic growth plan. Here are five projects aimed at improving the operation and productivity of cities.

In his Autumn Statement, delivered in November 2016, the Chancellor of the Exchequer signalled government's support for infrastructure as a driver for growth by increasing future investment to 1-1.2% of national GDP. Government infrastructure policy is laid out in the **National Infrastructure Delivery Plan 2016-2021**, which is founded on a pipeline of 600 infrastructure projects with a combined value of £425bn. But looking beyond percentage points of GDP and pounds, shillings and pence, infrastructure is about keeping the country going, never more so than for our cities and metropolitan areas. For with the UK population expected to be 75 million by 2050, the majority who will be living in cities, infrastructure in these areas must be fit-for-purpose to cope with demand.

Related Link – GOV.UK, HM Treasury, Infrastructure and Projects Authority, Lord O'Neill of Gatley and The Rt Hon George Osborne MP, 23 March 2016, Last updated: 29 April 2016, Part of: National Infrastructure Plan, *Policy paper: National Infrastructure Delivery Plan 2016 to 2021* [online]. Further information is available at <https://www.gov.uk/government/publications/national-infrastructure-delivery-plan-2016-to-2021> [accessed 23 December 2016]

Love them or hate them, here are five infrastructure projects for 2017.

1. High Speed Rail 2 (HS2) – Phase One

If Royal Assent is granted in the New Year, 2017 will see the first spades in the ground for the largest infrastructure project of its kind in Europe; and perhaps the most controversial too if the proliferation of local opposition groups and reports of **child brainwashing** are anything to go by.

Phase One will be a 338km high speed rail line between **London and Birmingham**, aimed at reducing journey times and increasing capacity with the use of 400m-long trains. Estimated to cost £22bn, this phase of the project will include a major re-development of Euston Station and the construction of Old Oak Common Station, itself a focal point for the biggest regeneration project in the UK at this neglected corner of north-west London.

(Related Links – (1) Salmon, J., (2016), HS2 accused of brainwashing children who go to school along the proposed route with 'zoom train' educational course', *MailOnline* [online], 13 December. Available at <http://www.dailymail.co.uk/news/article-4027094/HS2-accused-brainwashing-children-school-proposed-route-zoom-train-educational-course.html> [accessed 23 December 2016]. **(2)** BBC News (2016), *What do we know about HS2?* [online]. Available at <http://www.bbc.co.uk/news/uk-16473296> [accessed 12 December 2016])

2. Tideway Tunnel

London is a world class city of the Twenty First Century, with a sewage system that the Nineteenth Century can be proud of. So with the population of Greater London expected to rise by **2.35 million between 2014 and 2041 to reach 10.89 million from 10.50**, Borough leaders may well have heaved a collective sigh of relief when preliminary construction began in 2016.

In 2017, the real work begins with the start of tunnelling of the 25km 'super sewer', its associated connection tunnels and the Lee Tunnel. Starting in west London at Acton Storm Tanks, the main tunnel will track south to the Thames running 65m below the river, before turning north at the Limehouse Cut canal and joining the Lee Tunnel at Abbey Mills Pumping Station in east London.

(Related Link – Mayor of London [n.d.], *Population projections* [online]. Available at <https://www.london.gov.uk/what-we-do/research-and-analysis/people-and-communities/population-projections> [accessed 23 December 2016])

3. New Wear Crossing

Anyone who follows English football will be familiar with the intense rivalry between Newcastle United and Sunderland so some may question the wisdom of improving the connectivity between these two proud cities of the North East. Football rivalry aside though, a new bridge crossing the River Wear is regarded as a vital component of Sunderland's plans for improving economic growth; Sunderland swapped its shipbuilding roots for car manufacturing (with Nissan continuing its commitment to the city following the vote to leave the EU) nevertheless, the city ranks poorly in terms of businesses and employment, according to the Centre for Cities' **Cities Outlook 2016** report.

Construction of the £117.6m **road bridge** began in 2015 and the bridge work is expected to be complete in the summer of 2017, with a public opening in the spring of 2018. Twice the height of Nelson's Column, the dual carriageway bridge will be a two span cable-stayed bridge with an A-frame pylon rising to 105m.

(**Related Links** – (1) Centre For Cities (2016), *Cities Outlook 2016* [online]. Further information is available at <http://www.centreforcities.org/publication/cities-outlook-2016/> [accessed 23 December 2016], (2) **Sunderland City Council** [n.d.] *Sunderland's new bridge* [online]. Further information is available at <http://www.sunderland.gov.uk/index.aspx?articleid=2929> [accessed 23 December 2016])

4. **Bristol Temple Meads Station**

Bristol, last year's European Green Capital, is a city brimming with confidence, so much so it even has its own currency – 'the Bristol Pound'. This confidence is reflected in Bristol's economic growth, which at 19.2% between 2009 and 2014, is second only to London.

To cope with increasing passengers, which is expected to rise from 11 million to 22 million by the end of the next decade, Bristol City Council is redeveloping Temple Meads station as part of the wider regeneration of the area called the **Bristol Temple Quarter Enterprise Zone**. Improvements to the station will include a new entrance to ease congestion and two new platforms. An £11m programme of infrastructure improvements around the station, started in December 2016, will include a remodelling of Temple Circus roundabout and improved cycling routes seeks to improve both traffic congestion and improve the area for cyclists and pedestrians.

(**Related Link** – Bristol Temple Quarter, Enterprise Zone [n.d.] website [online]. Further information is available at <http://www.bristoltemplequarter.com/> [accessed 23 December 2016])

5. **Crossrail**

This **mega-project**, which edges towards its grand opening in 2018, has become a beacon of the civil engineering world. The £14.8bn project is nothing if not ambitious, involving the construction of a 42km tunnel coursing beneath the Capital, the construction of 10 new stations and the upgrading of 30 more. The entire line, which will stretch between Reading and Abbey Wood, will carry on estimated 200 million passengers a year, easing London's creaking Underground network.

What makes Crossrail such an exemplar, however, is the way it is being delivered. The project, for example, is paving the way for innovation such as the use of Building Information Modelling through the entirety of the project. Sustainability in all its form is also central to project delivery, whether it be employing a diverse and local workforce, a commitment to reducing CO2 to reusing waste – more than 3 million tonnes of excavated spoil, for example, has contributed to the creation of Jubilee Marsh as part of the Wallasea Island Wild Coast project.

(**Related Link** – Crossrail [n.d.] website [online]. Further information is available at <http://www.crossrail.co.uk/> [accessed 23 December 2016])

Source: Carr, D., (2016), Building Research Establishment (BRE), 'Five urban infrastructure projects for 2017' [online]. Further information is available at

<http://www.building4change.com/article.jsp?id=2792#.WF0WxlWLRREY> [accessed 23 December 2016],

Building4Change, 21st October, **ARTICLE #2792** (BRE).

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[ESH Build starts construction work on £2.5m STEM centre at Northumberland College](#)

ESH Build has broken ground on a new £2.5 million state-of-the-art STEM Centre at Northumberland College. The North East based building contractor, along with project managers Summers-Inman, has been appointed by the college to complete the re-development of its science, technology, engineering and mathematics facilities at its Ashington campus.

The new centre will be home to specialist science and technology workshops with dedicated facilities that will include a class 10,000 clean room, Digital 3D imagery equipment, nanotechnology, microscopes, specialist chemicals and fab labs where budding product designers and entrepreneurs can access the latest in digital fabrication equipment for prototyping.

Paul Redman, divisional director of Esh Build, part of Esh Group, said: "The Esh Build team is looking forward to starting work on this exciting project for Northumberland College.

"Building this type of specialist space for the education sector is where our strengths lie.

The new Northumberland College STEM Centre will be an asset to the local community."

Principal and chief executive of Northumberland College, Marcus Clinton said: "This is a very exciting time for the College and we are very pleased to have appointed Esh Build as the contractors for our STEM Centre who have worked on many major projects around the north.

"The development of this building is very good news for us and for Northumberland, following on from an exceptionally successful year of achievements and outcomes for students."

Marcus added: "There are skills shortages within science, technology, engineering and maths (STEM) so we will be adding new courses that are designed with feedback from employers and cover fabrication, processing, IT and digital, robotics and hydraulics, this training will benefit our students and the local economy."

The new science and technology centre project, which received £2.3m funding from the North East Local Enterprise Partnership's (North East LEP's) Local Growth Fund, is scheduled for completion by summer 2017 and will also provide a base for maths and digital courses at the college.

North East LEP Board Member David Land said: "Access to training and skills is fundamental to delivering our vision of creating more and better jobs for the North East.

"It's fantastic to see this project come to life; people from across the North East will be able to access training that meets a genuine need in the labour market, and we're pleased to see it underway."

Builder&Engineer (2016), 'ESH Build starts construction work on £2.5m STEM centre at Northumberland College' [online]. Further information is available at <http://www.builderandengineer.co.uk/news/esh-build-starts-construction-work-%C2%A325m-stem-centre-northumberland-college> [accessed 13 December 2016],

Builder&Engineer, 13 December.

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Willmott Dixon builds career foundations for students with tour of £31m Birmingham university extension

Contractor Willmott Dixon has given a group of university students a site tour of Birmingham City University's (BCU) new extension project.

Due for completion in October 2017, the £31 million scheme is being built using the latest BIM technology, making it the ideal site for student engagement visits.

Led by the Birmingham-based construction firm, the group of 23 architectural technology and BIM Masters students from BCU and the University of Wolverhampton visited the Curzon B extension which, once complete, will house over 3,000 students and feature more than 650 rooms, a student hub, lecture theatre and mock courtrooms.

BCU student, Sam George Taylor, thoroughly enjoyed the tour, he said: "Our site visit was an interesting and new experience, having the opportunity to see how a design develops into a working project was great. I liked seeing how the builders are using BIM models to work and reference from. I would be interested in visiting again when the project is further through the build stage."

Peter Owen, managing director at Willmott Dixon in the West Midlands, said: "Students need to learn the practical side of construction as well as the theoretical elements. We provide site tours to help students learn more about our work and the practical side of construction."

Builder&Engineer (2016), 'Willmott Dixon builds career foundations for students with tour of £31m Birmingham university extension' [online]. Further information is available at

<http://www.builderandengineer.co.uk/news/willmott-dixon-builds-career-foundations-students-tour-%C2%A331m-birmingham-university-extension> [accessed 3 January 2017], *Builder&Engineer*, 22 December

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Scotland's apprenticeship levy spending must focus on construction, says FMB

The Federation of Master Builder (FMB) has called on the Scottish Government to recognise the construction industry as a priority sector when allocating apprenticeship levy funding.

Employability minister Jamie Hepburn has confirmed Scotland's share of funding from the UK Government's levy will support skills, training and employment in the region.

As well as delivering 30,000 modern apprenticeships starts per year by 2020, the levy - which will be introduced in April – will be used to support the creation of a new £10 million Workforce Development Fund which will help employers work in partnership with colleges to up-skill and re-skill their existing workforce and address skills gaps.

“Investing in 30,000 Modern Apprenticeships per year by 2020 and support for the new £10 million Fund will help us develop a distinctly Scottish approach to the way we respond to the apprenticeship levy,” said Hepburn.

And with less than four months until the levy is due to be collected from firms with a wage bill of more than £3 million, Gordon Nelson, director of FMB Scotland, is urging the Scottish Government to ensure that construction is given priority access to the fund.

“The construction industry needs to be given the same status as other sectors named as being particularly important including digital, care and early years,” he said.

“By failing to prioritise construction as a key skills sector, the Scottish Government is in danger of putting the cart before horse.

“For every £1 invested in construction, £2.84 is generated in the wider economy and we therefore urge the Scottish Government to give construction the priority status it demands as ministers continue to develop their skills strategy.”

Hepburn has promised to use the apprenticeship levy to give Scottish workplaces more options and flexibility, with the funding used to increase the number of graduate level and foundation apprenticeships in 2017-18, continue the implementation of the Youth Employment Strategy as well as developing partnerships between employers and local authorities to tackle unemployment and under-representation in the labour market.

“We have responded to the needs of employers by announcing an approach that is much broader than is currently proposed in England, and that will support skills, training and employment,” said Hepburn.

“While we will boost modern apprenticeships we will also address skills gaps and the training needs of existing employees where a full apprenticeship might not be appropriate.”

Builder&Engineer (2016), ‘Scotland’s apprenticeship levy spending must focus on construction says FMB’ [online].

Further information is available at <http://www.builderandengineer.co.uk/news/scotland%E2%80%99s-apprenticeship-levy-spending-must-focus-construction-says-fmb> [accessed 3 January 2017], *Builder&Engineer*, 21 December

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Q&A briefing: How will the new apprenticeship levy affect the construction industry?

The chancellor’s announcement of the new apprenticeship levy – set at 0.5% of payroll turnover above a threshold of £3m – raises questions for the CITB and the industry.

In this article, *Construction Manager* looks at what’s happening.

Construction Manager, 26th November 2015, *Q&A briefing: How will the new apprenticeship levy affect the industry?* [online] and further information available at <http://www.construction-manager.co.uk/news/ne1w-apprenticeship-levy-qa/> [accessed 3 January 2017]

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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 3 January 2017]

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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 3 January 2017]

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Bonfield Review recommends a retrofit quality mark

- A new framework to ensure consumer protection, codes of conduct and quality is needed to improve trust, which is hindering the uptake of energy efficiency measures and renewables among householders

The hotly anticipated ‘**Each Home Counts**’ review, published on 16 December, has called for a quality mark for all energy efficiency and renewable energy measures, and companies that adhere to standards of competence, quality and customer service enshrined in a new Framework.

The independent industry-led review Chaired by Dr Peter Bonfield, CEO of BRE, the Framework would comprise of three elements:

- **A Consumer Charter to ensure consumers receive excellent levels of customer service, with a clear redress process and guarantee protection**
- **A Code of Conduct which sets out how companies behave, operate and report, the requirements of which must be met or exceeded for the company to operate**
- **Codes of Practice relevant to the installation of each measure under consideration so that the risk of poor quality installation is minimised**

Those working within the Framework would need to demonstrate technical competence and quality of installation as well as a commitment to good customer service.

“This approach will help build trust and confidence and encourage greater voluntary uptake of these measures complementing the incentives and future requirements of government,” said Bonfield in the Chair’s Foreword.

The ‘Each Home Counts’ review, widely known as the Bonfield Review, also sets out 27 recommendations covering consumer protection; advice and guidance; quality and standards; skills and training; compliance and enforcement; insulation and fabric; home energy technologies; smart meters; and application in social housing.

The review highlights the “impressive ambition and buy-in” of its contributors but acknowledges that to achieve its vision will require “critical mass of installers and organisations using the Framework to make it sustainable”. It also calls on organisations in the public and private, procuring energy efficiency and renewable energy measures to require the quality mark, rather than awarding work based solely on price. Critical to the implementation of the Framework would be establishment of a Strategic Governance Board.

Source: Carr, D. (2016), Building Research Establishment (BRE), ‘Bonfield Review recommends a retrofit quality mark’ [online]. Further information is available at

<http://www.building4change.com/article.jsp?id=2794#.WGuskIWLREY> [accessed 03 January 2017],

Building4Change, 23rd December 2016, **ARTICLE #2794** (BRE).

Building4Change @



<https://twitter.com/Building4change> [accessed 03 January 2017]

Related Links:

GOV.UK, Department for Business, Energy & Industrial Strategy, Department for Communities and Local Government, Gavin Barwell MP and Baroness Neville-Rolfe DBE CMG, First published 16 December 2016 (Part of: Energy efficiency in buildings and Household energy), Independent report – *Each Home Counts: Review of Consumer Advice, Protection, Standards and Enforcement for Energy Efficiency and Renewable Energy* [online]. Available at <https://www.gov.uk/government/publications/each-home-counts-review-of-consumer-advice-protection-standards-and-enforcement-for-energy-efficiency-and-renewable-energy> [accessed 03 January 2017]

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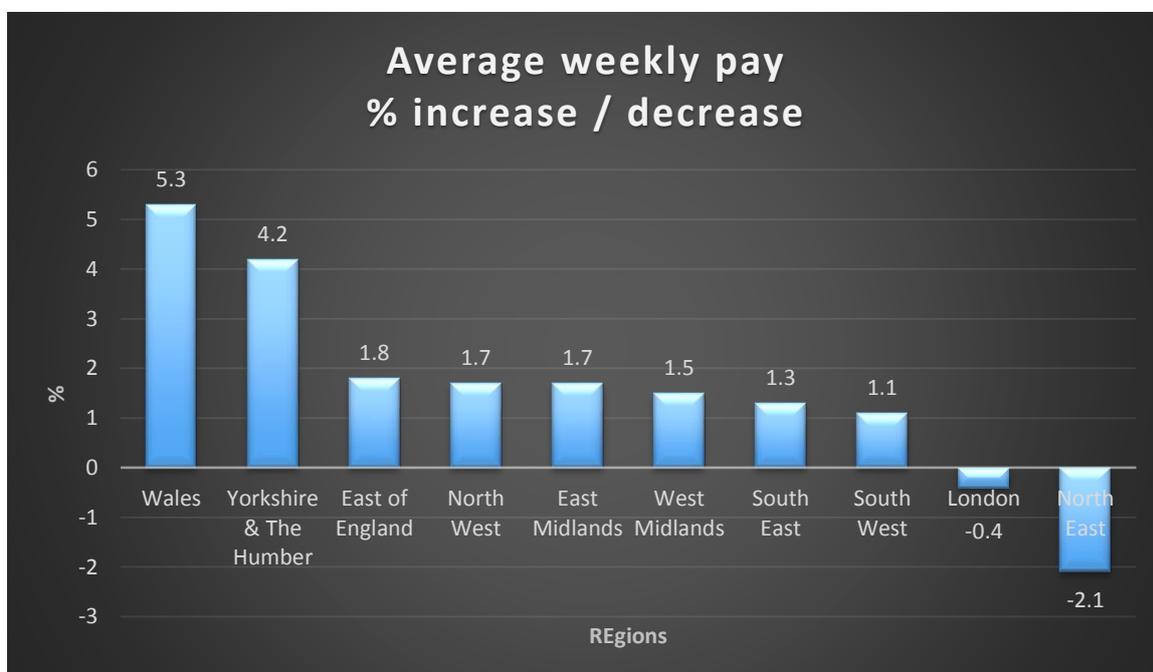
[New construction pay index reveals earnings winners and losers across England and Wales](#)

The nation’s first ever construction pay trends index* has been launched to reveal that Wales has seen the biggest (5.3%) year-on-year increase in earnings amongst self-employed tradesman – compared to just a 1.8% uplift nationally across England.

The new ‘Construction Pay Trends’ index which can be accessed at Hudson Contract, Construction Pay Trends [online] and available at <http://www.hudsoncontract.co.uk/construction-pay-trends/> [accessed 22 November 2016] has been developed by construction’s leading professional **workplace** audit and contract solutions provider, Hudson Contract, and harness payroll data from over 2,000 building firms across England and Wales.

The interactive tool reveals weekly pay differences by region, age and sub sectors such as **bricklaying** and joinery through to roofing and surfacing **contractors**. Providing tradesman, building apprentices and other industry analysts with a unique insight into pay levels, it also reveals the impact weather, location and economic factors have on earning potential.

The biggest drop in average weekly pay in the building industry was experienced in the North East which saw a 2.1% decrease in earnings year-to-date in 2016 compared to 2015. It was closely followed by a 0.4% decrease in London, with the regional trends illustrated in the following top 10:



Source: **Designing Buildings.co.uk Wiki**, (2016) ‘New construction pay index reveals earnings winners and losers across England and Wales’ [online]

Across all construction trades, the highest increase in earnings year-on-year for **sub-contractors** was within the Roofing industry which experienced 6.1% growth, followed by 4.8% in Plastering and 4.2% in **Scaffolding**.

Those working in the **Equipment** and Operator Hire industry witnessed a surprising 4.1% average drop in earnings year-to-date in 2016 compared to 2015. This was followed by a notable yearly pay decrease of 1% in **Bricklaying** and only a 1.1% average increase in earnings for **Civil Engineering** tradesmen.

Ian Anfield, Managing Director at Hudson Contract, said “We’ve development the Construction Pay Trends index to provide the most comprehensive insight into pay levels across the industry. It has revealed some fascinating trends on both a national and regional level, with tradesman in Wales experiencing the sharpest annual growth in earnings.

“The index will update monthly to reveal the latest pay trends – providing the perfect online career resource for building apprentices through to industry analysts assessing the ongoing health of the construction sector.”

Source: **Designing Buildings.co.uk Wiki**, (2016) ‘New construction pay index reveals earnings winners and losers across England and Wales’ [online]. Further information is available at:

<http://www.designingbuildings.co.uk/wiki/Home> and

https://www.designingbuildings.co.uk/wiki/New_construction_pay_index_reveals_earnings_winners_and_losers_across_England_and_Wales [accessed 3 January 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.

Related Link:

Hudson Contract, Construction Pay Trends [online] and available at

<http://www.hudsoncontract.co.uk/construction-pay-trends/> [accessed 3 January 2017]

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[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 3 January 2017) on

- Unusual building of the week – Barcelona’s Torre Agbar, a high-tech bullet-shaped tower with a unique LED lighting system
- Types of bonds – An introductory article on the different types of bonds in construction contracts
- Top 10 strangest designs of 2016 – Take a look at the strangest designs from over the last year (see publication date), including a replica ark and an alternate Garden Bridge
- Game theory – What is game theory and what relevance does it have to construction project management?

- **Construction knowledge – Where do you go to find out about the construction industry? Designing Buildings Wiki had a go at listing the main sources of construction knowledge in the UK – but questions what have we missed?**
- Building of the week – Backdrop to perhaps one of the most iconic Christmas trees in the world, the Rockefeller Center in Manhattan
- Renovation – The process and common pitfalls of renovating properties
- What we know about wellbeing – BSRIA plot a course through the maze of health and wellbeing
- Shell and core – An introductory article explaining the concept behind shell and core construction
- Unusual building of the week – The whimsical and organic ‘bio-architecture’ of Nautilus House
- The transport revolution of Hyperloop – A team of students at Edinburgh University is building a 1,150 km/h ‘Hyperloop’ pod that could revolutionise transport
- **Phase change materials – New BRE document published providing an overview of PCM building products and available methodologies for assessing them**
- Top 10 buildings of 2016 – Take a look at Designing Buildings Wiki’s top 10 building of the year
- Interview with BPF – “Build to Rent is win-win for government”, says Melanie Leech, Chief Executive, British Property Federation in an interview with Designing Buildings Wiki
- Topmix Permeable – This new ‘thirsty concrete’ can absorb around 36,000 mm of water per hour. Read about how it works

This month also contains **news** (as of 3 January 2016) from the following organisations and online journals incl.

- Illusionist bridge – French architects win design competition for ‘illusionist’ bridges and pavilions in western China
- Starter homes – 30 council partnerships announced for first wave of Starter Homes construction
- ArchDaily, 3 January – Architects ridicule government’s Garden Villages plan, calling it ‘an impotent tweetification of housing policy’.
- CNN, 3 January – The most anticipated new building openings of 2017
- IHBC, 3 January – 4100 million fund announced to protect endangered cultural heritage
- Brutalist landmark under threat – A campaign is underway to save Durham University’s Dunelm House, a Brutalist landmark engineered by Ove Arup
- Garden village – Government announces backing for 14 new garden villages across England, to deliver 48,000 homes
- Dezeen, 2 January – Dezeen’s top 10 buildings to look forward to in 2017
- Amazon flying warehouses – A filed patent emerges for flying warehouses that could serve delivery drones
- BBC, 30 December – Help to Buy loan guarantee scheme comes to an end
- Construction Enquirer, 30 December – 2017 will divide the construction sector into winners and losers, according to KPMG
- Telegraph, 29 December – 25 of the best (and worst) new buildings of 2016
- Prefab housing factories – Six new factories to produce 25,000 prefabricated homes in the UK every year
- New York Times, 29 December – Alejandro Aravena as one of the 28 ‘creative geniuses of 2016’
- Construction Dive, 29 December – The winners of American construction’s 5 biggest regulatory battles in 2016
- Business Insider, 28 December – Watch a time-lapse drone video of Apple’s spaceship’ campus building
- The Guardian, 28 December – Any more delays could terminate Garden Bridge project say Trust
- Conservation prize – Designing Buildings Wiki chairman David Trench CBE selects the winner of the Institute of Historic Building Conservation (IHBC) Gus Astley Student Awards
- Polymer discovery – Scientists discover the secret of polymers which could lead to ‘super-glue’ for timber skyscrapers
- Wired, 23 December – World’s first solar panel road opens in French village
- GCR, 23 December – SOM plants ‘mind-bending’ alternative Christmas tree Aalborg

- New London Architecture, 23 December – WRK/LDN published, detailing NLA’s year-long research into London’s workplaces
- Lillehammer Art Museum and Cinema – Snohetta complete striking new extension to Norwegian art centre
- Blue Book – BSRIA publish the 2017 edition of their Blue Book, providing hard-to-find facts about building services
- Construction Dive, 22 December – UK-GBC respond to the government’s Bonfield Review on energy efficient homes
- Construction Manager, 22 December – Qatar University develops solar-powered ‘cooling’ hard hat with a built-in fan

Source: **Designing Buildings.co.uk Wiki**, (2016) [online]. Further information is available at: <http://www.designingbuildings.co.uk/wiki/Home> [accessed 3 January 2017]

NOTE: Use of Wikipedia as a reference site:

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The Construction Information Service (CIS)- Briefing 11/2016

This latest version of the CIS briefing (11/2016 Edition) explores photovoltaics: both organic and inorganic solar cells, advantages and disadvantages of each type, advancements, and future potential. There is also a big of guidance regarding what to consider when selecting a solar panel system.

Subjects covered include:

- Building services,
- Photovoltaics,
- Solar power, and
- Renewable energy.

The current awareness **Industry news round-up** covers the following fields and subjects,

- Photovoltaics
- How solar cells work
- **Inorganic photovoltaics** incl.
- Monocrystalline solar panels – Benefits and Disadvantages;
- Polycrystalline solar panels – Advantages and Disadvantages
- Thin film solar panels – Advantages of thin film systems and Disadvantages
- **Organic photovoltaics** incl.
- Flexibility and size

- Performance and efficiency
- Production methods
- Practical applications, and
- Recent advancements
- **Selecting solar panels: factors to consider**
- PTC rating, and
- Further bibliography and suggested additional reading/watching

Some related reading in the Construction Information Service incl.

- Architects' Journal Technical and Practice: There is greater potential from solar energy at higher latitudes
- BRE Information Paper 5/01: Solar energy in urban areas
- Solar farms: 10 commitments
- BRE National Solar Centre: Biodiversity guidance for solar developments
- BRE National Solar Centre: Planning guidance for the development of large scale ground mounted solar PV systems
- Policy Guidance Notes: Solar energy
- Information Sheet 02: Safe handling of solar collectors and other large items on roofs
- Technical Bulletin 41: Solar installations on roofs, and
- Guidance Document 01: Fixing solar panels to timber rafters and battens (pitches roofs)

and more.

Source: NBS (2016), The Construction Information Service (CIS) – *Briefing 11/2016* [online]

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.

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Photovoltaics

Photovoltaic (PV) technology allows solar energy to be converted directly into electricity. PV panels come in a variety of options to suit the varying requirements of structure types; allowing for design flexibility and integrated application.

Currently, the primary technology used in PV manufacturing is silicon (inorganic) based; however, there is a drive to move to a polymer (organic) based process, which would provide several benefits, including making solar cells more widely affordable and suitable for a much wider range of applications.

Source: NBS (2016), The Construction Information Service (CIS) – *Briefing 11/2016* [online]

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.

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How solar cells work

Solar cells convert the sun's energy into electricity using what is known as the photoelectric effect, i.e. matter's ability to release electrons when it is exposed to light.

A solar cell consists of several layers, including two types of semiconductor fields: the n-type (negative), which is a thin upper layer, and the p-type (positive) which is a thicker layer that sits underneath the n-type and on top of a back contact. When sunlight strikes the cell, it passes through the n-type layer and some of the photons within

that light are absorbed. When that energy strikes an atom within the semiconductor material, it displaces an electron, creating a free-moving electron and a hole. (The freed electron-hole pairs are called excitons.)

From the moment they are separated, the electron and hole seek to remerge. This effort creates a sort of traffic jam at the point where the two fields meet, forming what is known as a PN junction. A depletion zone (area devoid of charge carriers known as a valance band) is generated, which works as a barrier between the two fields. Now blocked from its hole, the electron moves about the n-type field looking for an alternative route while the hole migrates to the back contact in similar effort. An electrical wire running from the n-type layer (cathode) to the p-type (anode) provides a path for the electron to return to its hole, creating an electrical current along its way.

The amount of electricity created by a single PV cell is small so, for most applications, multiple cells are connected together to form a string, which are then joined together to form a panel. The panels are then combined to form a PV system. The number of cells, strings, or panels needed for any given application depends upon several factors, including the amount of electrical output required.

Inorganic photovoltaics

The most common type of photovoltaic cells on the market use silicon layers to serve as semiconductors for light. For home use, panel efficiencies typically run between 10%-20%, while larger, industrial applications can see 40%-50% efficiencies. Because the higher the efficiency, the higher the cost, to achieve the best return on investment, a balance must be made between cost and efficiency.

Organic photovoltaics

Polymer or organic PVs are part of what could be construed as a “third wave” of photovoltaics to enter the market; the first two being of crystalline silicon construction (thicker, traditional solar cells and the new thin film varieties). With organic PVs, there is opportunity not only to improve upon current solar cell technology, but to apply it to applications unsuited to conventional PVs.

When compared to inorganic PVs, organic PVs are much lighter in weight and far more flexible, making them more easily tailored to a specific project. On their own, they also cost less to manufacture. Organic polymers also have far less impact on the environment. The disadvantages include a much lower efficiency rate and far faster degradation. While a recent laboratory effort resulted in a power conversion efficiency of over 10% (source: US National Library of Medicine, National Institutes of Health – Nature Communications (2013), *A polymer tandem solar cell with 10.6% power conversion efficiency* [online]. Further information is available at <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3660643/> [accessed 3 January 2017] and, by adding encapsulant materials, the lifespan can be extended, the technology is not yet where it needs to be for wider, built environment application. Still the technology is rapidly advancing, and we are already seeing great potential for smaller scale commercial applications in the near future.

Selecting solar panels: factors to consider

For building applications, there are several factors that should be taken into consideration when determining what type of solar panel system to install. This includes:

- Roof angle and direction – peak efficiency can be achieved on roofs that face south, east, or west and are angled at 10 to 60 degrees
- The amount of shade – roofs that experience significant periods of shade throughout the day will work far less efficiently.
- Temperature – not as big an issue in the UK, panels must have breathing room between them and the roof surface, as they are adversely affected by higher temperatures.
- Time of year – logically, solar energy systems work best during sunnier times of the year.
- System size needed – average systems range from 2-4kW; the larger the system, the more energy produced. In situations where roof size is limited, monocrystalline panels may be the better option because fewer will be needed.

PTC rating

Systems which include a Performance Test Conditions (PTC) rating provide not only information regarding panel efficiency but also that of the inverter – the device that converts the panel-produced direct current into an alternating current required for domestic use. Efficiencies for inverters typically run between 85-95%.

Source: NBS (2016), The Construction Information Service (CIS) - *Briefing 11/2016* [online]

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.

Further bibliography and suggested additional reading/watching

The following list provide articles, papers, and videos that were used during the above mentioned research. If you're interested in learning more about the science behind photovoltaics and/or future applications, there is loads of great stuff here to explore.

Energy Informative (2015) *Which Solar Panel Type is Best? Mono- vs. Polycrystalline vs. Thin Film* [online].

Further information is available at <http://energyinformative.org/best-solar-panel-monocrystalline-polycrystalline-thin-film/> [accessed 3 January 2017]

Benoit, R., (2016) 'Polymer Solar Cells Overview' YouTube [video]. Available at

<https://www.youtube.com/watch?v=vu6WHemY64M> [accessed 3 January 2017]

Friend, R., Burroughes, J., [et al.] (1999), 'Polymer diodes', *Physics World*, pp. 35-40. http://www2.ece.ohio-state.edu/~berger/courses/ee835_02_aut02/1999jun_physworld_friend_review.pdf [accessed 3 January 2017]

ColdFusion (2016) 'The Truth About Solar' YouTube [video]. Available at

https://www.youtube.com/watch?v=nabM5MGq_NY [accessed 3 January 2017]

Solar Facts and Advice [n.d.] *8 Good Reasons Why Monocrystalline Solar Panels are the Industry Standard*

[online]. Available at <http://www.solar-facts-and-advice.com/monocrystalline.html> [accessed 3 January 2017]

National Energy Foundation [n.d.] *Types of Photovoltaic (PV) Cells* [online]. Available at

<http://www.nef.org.uk/knowledge-hub/solar-energy/types-of-photovoltaic-pv-cells> [accessed 3 January 2017]

Further reading is also mentioned above.

Source: NBS (2016), The Construction Information Service (CIS) - *Briefing 11/2016* [online]

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.

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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.

N.B. The newly updated Smith Institute website [online]. Further information is available at <http://www.smith-institute.org.uk/> [accessed 22 November 2016]



<https://www.facebook.com/pages/The-Smith-Institute/251600568286?v=wall> [accessed 22 November 2016]



https://twitter.com/smith_institute/ [accessed 22 November 2016]

Policy Tracker

on The Smith Institute's website [online] and available @ http://www.smith-institute.org.uk/?page_id=66 [accessed 22 November 2016]

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Latest Research from The Smith Institute incl.

Pricing Londoners in, not out: mapping where new affordable homes in London could be built

- new report examines housing affordability in the capital and which areas could best price Londoners in London's housing crisis presents a huge and urgent challenge. There are not easy solutions and costs continue to rise. As such, it is imperative that the politicians and decision-makers get the policy right and secure the best possible outcomes. London can't afford policy mistakes and the wrong interventions. Nor with demand

increasing can London afford to delay. This report acknowledges these imperatives and seeks to inform and shape the housing policies of the London mayor and the 32 boroughs and City of London.

Whilst the data and analysis records the seriousness of the situation and documents how Londoners are being priced out, its added value rests in the evidence presented on what is truly affordable, where and for whom. The picture it paints is far from straight-forward. London's housing is certainly expensive compared to the rest of the UK, but it's complicated and not everywhere is unaffordable for everyone. Furthermore, the research shows that there are big differences between and within boroughs, not least in terms of tenure mix. Understanding these variances is essential in getting London's housing and planning policies fit for purpose.

This report though does more than explain the complexities and differences of London's housing market. It also examines the costs to the public purse of supporting affordable housing in different places and for different tenures. If London is to make the most out of the limited resources it gets from government than it is vital to spend the funding wisely and ensure value for money. Deciding where to invest in new affordable homes is difficult terrain, but the decisions must be made on the basis of solid evidence and for the benefit of London as a whole.

With land values and property prices rising to unprecedented levels the report asks if there is scope for greater burden sharing among the London boroughs and whether investment should perhaps be directed more towards those places in outer London which offer a bigger bank for your buck? It also questions how the creation of mixed income/mixed tenure communities can be given a higher profile. These are difficult tasks, but vital to helping London provide the housing it needs.

Hunter, P., (2016), ***Pricing Londoners in, not out: mapping where new affordable homes in London could be built*** [online]. Further information and access to the report is available at <http://www.smith-institute.org.uk/book/pricing-londoners-not-mapping-new-affordable-homes-london-built/> [accessed 4 January 2016], London: The Smith Institute

The Smith Institute, Publications [online] and available at http://www.smith-institute.org.uk/?post_type=books [accessed 4 January 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.

Jowett A, Bagilhole B, Townley C [et al.], September 2016, ***#notjustforboys – women in construction*** [online].

Further information and access to the report is available at <http://www.smith-institute.org.uk/book/notjustforboys-women-construction/> [accessed 4 January 2017], London: The Smith Institute

The Smith Institute, Publications [online] and available at http://www.smith-institute.org.uk/?post_type=books [accessed 4 January 2017]

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Devo-housing: the emerging agenda

- New report provides a stock take of devo-housing and asks what further housing devolution combined authorities want

This report is the first serious stock take and analysis of the place of housing, planning and regeneration in the 11 devolution deals agreed to date. It shows how devolution agreements on housing to date have been patchy and piecemeal, lacking serious funding or new powers.

The report shows that devolution in housing and planning was widespread support, but the journey so far is viewed as slow, piecemeal and undermined by centralising tendencies from the present government as well as inappropriate national programmes and targets. The findings, based on the views of senior officers from the combined authorities, suggests that there is a clear desire from combined authorities for greater consistency and greater powers and resources to meet their particular housing needs and ambitions. One important demand is for a single long-term devolved funding pot for housing to deliver scale and certainty, rather than multiple pots of money, each with strings attached. Authorities are also clear they want their devolution deals to be on a similar footing to that in London. A formal 'Memorandum of Understanding' would be a suitable vehicle for taking forward devo-housing deals.

Anderson, J., Hunter, P., and Healey, J. MP, The Smith Institute (2016), *Devo-housing: the emerging agenda* [online]. Further information and access to the report is available at <http://www.smith-institute.org.uk/book/devo-housing-emerging-agenda/> [accessed 4 January 2017]

The Smith Institute, Publications [online] and available at http://www.smith-institute.org.uk/?post_type=books [accessed 4 January 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.

Hunter, P., The Smith Institute (2016), *Towards a suburban renaissance: a new agenda for our city suburbs* [online]. Further information and access to the report is available at <http://www.smith-institute.org.uk/book/towards-urban-renaissance-agenda-city-suburbs/> [accessed 4 January 2017]

The Smith Institute, Publications [online] and available at http://www.smith-institute.org.uk/?post_type=books [accessed 4 January 2017]

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Britain for sale? Perspectives on the costs and benefits of foreign ownership

The UK is becoming ever more reliant on foreign investment, especially for the provision of strategically important infrastructure, like airports and energy projects. Investors from China, UAE and elsewhere are being

encouraged to invest heavily in the so-called Northern Powerhouse and Midlands Engine. Foreign investment meanwhile continues to flood into London, notably into the booming property market.

The presence of overseas investors in London and the regions has financial benefits and is viewed by the government as a cost effective alternative to public investment. However, greater dependence on international investors (many state backed Sovereign Wealth Funds) is not risk free. In this publication – published in association with the Regional Studies Association – the authors examine whether there is an over reliance on foreign investment which could make the UK's cities less resilient and more vulnerable to global market fluctuations. The authors also explore concerns over the way foreign owned infrastructure projects in city-regions are regulated and governed.

Crouch, C., Findeisen, F., [et al.], The Smith Institute (2016), *Britain for sale? Perspectives on the costs and benefits of foreign ownership* [online]. Further information and access to the report is available at <http://www.smith-institute.org.uk/book/britain-sale-perspectives-costs-benefits-foreign-ownership/> [accessed 4 January 2017]

The Smith Institute, Publications [online] and available at http://www.smith-institute.org.uk/?post_type=books [accessed 4 January 2017]

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From the margins to the mainstream: a study of the prospects for shared home ownership in the North West

- Shared ownership, from the margins to the mainstream/ This in-depth report examines how shared ownership in the North West can be scaled up

This report could not have been more timely. It coincides, for instance, with the passage of the Housing and Planning Bill and recent changes to the government's home ownership scheme, which the Prime Minister claimed will "open the door to an extra 175,000 aspiring homeowners". It also accords with the ambitions of the city-regions and the local authorities and housing associations in the North West, and most importantly, with potential homeowners across the region.

The title of the report '*from the margins to the mainstream*' neatly sums up the challenge for housing providers in the region. As the report shows, there is clearly a market for shared ownership in the North West – not least because it offers choice, affordability and security tenure. And, it is not just for the young first time buyer seeking to get a foot on the housing ladder. The product is suited to lower income tenants from all age groups, and from both the private and social rented sectors. Indeed, potential opportunities for growth identified in the report include older people's shared ownership schemes (which are popular in the North West) and self-build.

The report offers a critical assessment of the shared ownership market in the North West and a thoughtful discussion of the prospects for growth. Its value lies not only in the data profiling and analysis, but interestingly and usefully in the way it presents the views and opinions of the major stakeholders.

Heywood, A., The Smith Institute, March 2016, '*From the margins to the mainstream: a study of the prospects for shared home ownership in the North West*' [online]. Further information is available at <http://www.smith-institute.org.uk/book/from-the-margins-to-the-mainstream-a-study-of-the-prospects-for-shared-ownership-in-the-north-west/> [accessed 4 January 2017]

The Smith Institute, Publications [online] and available at http://www.smith-institute.org.uk/?post_type=books [accessed 4 January 2017]

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'The productivity puzzle' A view from employees

Forming part of a wider piece of work, this report describes the findings of a survey commissioned by Prospect, USDAW, BECTU, Community, Association of Teachers and Lecturers, FDA and the Society of Radiographers. Presented at a Unions21 conference in March 2016, the survey commissioned to add a vital dimension to the

contemporary political and economic discourse around productivity, looking at employees' perspectives on productivity.

The survey had 7,454 responses from shop workers and radiographers to broadcasters and civil servants. The vast majority said they were *working harder not smarter*, and that productivity could be improved if management listened to staff more and engaged with them over job design, team working, hours and workload.

The Smith Institute, March 2016, '*The productivity puzzle*' A view from employees' [online]. Further information is available at <http://www.smith-institute.org.uk/?books=the-productivity-puzzle-a-view-from-employees> [accessed 4 January 2017]

The Smith Institute, Publications [online] and available at http://www.smith-institute.org.uk/?post_type=books [accessed 4 January 2017]

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The National Trust - Big Issues (incl. 'Transport & Tourism' and 'Land-use & planning') and our 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 4 January 2017]

Please refer to

'The National Trust' 

'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 4 January 2017]

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The 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.

Special places impacted by HS2 [online]. Further information is available at <http://www.nationaltrust.org.uk/article-1355885932182/> [accessed 4 January 2017]

High Speed Rail 2 (HS2) – phase 1 & 2 [online]. Further information is available at <http://www.nationaltrust.org.uk/article-1355813240998/> [accessed 4 January 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 4 January 2017]

Social Media Links to follow for National Trust:



<https://twitter.com/nationaltrust/> [accessed 4 January 2017],



<https://www.facebook.com/nationaltrust> [accessed 4 January 2017],



<https://www.youtube.com/user/nationaltrustcharity/> [accessed 4 January 2017]

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Assessing the environmental impacts of HS2

- The National Trust (NT) continues to monitor the impact that HS2 will have around the special places within their care. Their response to the latest consultation from HS2 Ltd urges them to further consider the historic natural environment.

In mid-May, 2016 The National Trust submitted their response to the High Speed Two Phase 2A Environmental Impact Assessment (EIA) and Scope and Methodology Report (SMR).

What the report aims to achieve

The report sets out the proposed method for working out the likely environmental impacts of Phase 2A of the project which is due to run from Birmingham to Crewe, passing close to special places in the National Trusts care in Staffordshire, including Shugborough Hall, Great Haywood Banks and Downs Banks.

This report is important because the way HS2 Ltd assesses impacts of the scheme will inform that, where and who they consider to be impacted by the railway and so what mitigation will ultimately be provided, such as changing the alignment of the railway or providing screening and noise barriers.

The NT's Response

The National Trust were pleased to note that as a result of comments the NT, and many others, made to the EIA methodology for HS2 Phase 1 back in 2012, improvements have been made to the way HS2 Ltd assess environmental impacts. However, there are a number of areas which additional information is required, or where the National Trust believe the methodology is incomplete or incorrect. Incl.

Cultural heritage – The National Trust are very concerned that the proposed 500m study corridor for cultural heritage is too narrow. Visual impact analysis needs to be modified to consider broader parameters of view and viewer. The National Trust also strongly believe that all listed buildings and registered parks and gardens have national significance and thus should be shown as having high significance.

Ecology – The proposed habitat surveys have some significant omissions, such as the consideration of veteran trees, Brown Hare and deer. Habitat connectivity mapping and modelling, using the method recommended by the HS2 Ecology Technical Group, should be incorporated into the EIA and the National Trust would like to see a programme of proactive monitoring of the significant residual impacts of the scheme.

Future of Shugborough – Planned works on the part at Shugborough may render the baseline surveys already undertaken to be unreliable, similarly the works are likely to change the recreational value of Shugborough Park. The National Trust would welcome further discussion with HS2 Ltd about the impact of planned changes in the management of Shugborough on its socio-economic values.

Noise and traffic – The National Trust are concerned that the potential impacts of traffic disruption due to construction are not fully considered and that the noise assessment methodology does not take account of the impact on Shugborough due to its distance from HS2

Next steps

The National Trust hope that HS2 Ltd will take their comments on board for the full environmental impact assessment for Phase 2A. In the interim they will continue to engage with HS2 Ltd, and Government, in order

to deliver the best possible mitigation and design for the impacts of both the train line and its associated construction in the vicinity of their places.

The National Trust website (n.d.), 'Assessing the environmental impacts of HS2' [online]. Further information is available at <http://www.nationaltrust.org.uk/features/assessing-the-environmental-impacts-of-hs2> [accessed 4 January 2017]

Related Links:

GOV.UK, High Speed Two (HS2) Limited, Part of: Rail network and HS2: high speed rail, 27 November 2014 (last updated 16 November 2016), 'HS2 Phase Two: from the West Midlands to Leeds and Manchester' [online]. Available at <https://www.gov.uk/government/collections/hs2-phase-two-from-the-west-midlands-to-leeds-and-manchester> [accessed 4 January 2017]

National Trust [online]. Further information is available at <https://www.nationaltrust.org.uk/> [accessed 4 January 2017] and search for 'HS2 Ecology group – Assessment and review of the HS2 Ltd approach to the Natural Environment'

National Trust, HS2 Ecology Technical Group [n.d.] 'HS2 Ecology Technical Group Terms of Reference' and 'HS2 Ecology Technical Group Response Letter' [online]. Further information is available at <https://www.nationaltrust.org.uk/lists/hs2-ecology-technical-group> [accessed 4 January 2017]

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The National Trust, Big issues – Land & Landscape (incl. Land-use & planning)

Please refer to

- 'The National Trust' 
- 'Our cause' 
- 'Land & Landscape' 
- 'Landscape'  and select
- 'Land-use & Planning' 

Where you can access The National Trusts 'Planning Principles' and an article on 'Planning at a national level' **Land-use and planning** [online]. Further information is available at <http://www.nationaltrust.org.uk/features/land-use-and-planning> [accessed 4 January 2017]

Reference:

Land & Landscape (including information on Landscape, Coastline and Energy) [online]. Further information is available at <http://www.nationaltrust.org.uk/land-and-landscape> [accessed 4 January 2017] including articles on:

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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

The National Trust (2016), *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 4 January 2017]

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The 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

The National Trust (2016), *Our planning principles* [online] and further information is available @ <http://www.nationaltrust.org.uk/features/our-planning-principles> [accessed 4 January 2017]

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The 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 (2016), *Our planning principles* [online] and further information is available @ <http://www.nationaltrust.org.uk/features/our-planning-principles> [accessed 4 January 2017]

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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.

For further information, visit

The National Trust (2016), *Planning at a national level* [online] and further information is available @ <http://www.nationaltrust.org.uk/features/planning-at-a-national-level> [accessed 4 January 2017]

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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

The National Trust (2016), *Planning at a local level* [online] and further information is available @ <http://www.nationaltrust.org.uk/features/planning-at-a-local-level> [accessed 4 January 2017]

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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 4 January 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 4 January 2017]

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Retail Matters: Celebrating people in retail - Latest research from Revo (formerly the British Council of Shopping Centres (BCSC))

Author – Revo

Year of Publication – 24/10/2016

Categories – Campaign Initiative

Source: British Council of Shopping Centres (BCSC), now Revo, 24 October 2016, *BCSC Retail Matters Week – So, how did we do?* - Latest research from the British Council of Shopping Centres (BCSC), now Revo [online]. Further information available at **Document listing** @ <https://www.revocommunity.org/documents/list> [accessed 21 November 2016] and

https://www.revocommunity.org/documents/view?id=503&x%5B0%5D=%2Fdocuments%2Flist%3Fn%255Btitle%255D%3Dtitle%26n%255Bauthor_of_document%255D%3DAuthor%2BOf%2BDocument%26n%255Bcountry%255D%3DCountry%26n%255Byear_of_publication%255D%3DYear%2BOf%2BPublication%26n%255Bfile_mimetype%255D%3DFile%2BType%26n%255Bcms_documents_tags_link.cms_document_id%255D%3DTags [accessed 4 January 2017]. **Please note:** You may have to register your details in order for this link to work, however there is an option for ‘**Non-member (Free Website user)**’ with access to limited material, but this document is available to ALL.

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Property Data Report 2016 – Facts and figures about the UK commercial property industry to year-end 2015

Author – Property Industry Alliance

Year of Publication – 19/10/2016

Categories – Industry Report

Property Data Report 2016 – Facts and figures about the UK commercial property industry to year-end 2015, a publication by the Property Industry Alliance (PIA)

This report sets out key facts about commercial property, a sector that makes up a significant part of the UK economy.

Commercial property is the physical platform for virtually all the UK’s major industries and enterprises, as well as providing places in which people work, shop and enjoy leisure activities. It comprises office blocks, buildings for shops and other high street businesses, warehouses and industrial units, as well as other types of buildings, such as cinemas, gyms, hotels, petrol stations, car parks and the like.

This latest *Property Data Report* has been fully updated to cover the period to the end of 2015. Amongst its detailed statistics, this report shows the following:

- The value of the UK’s commercial property stock reached an all-time high of £871 billion in 2015, representing 10% of the UK’s net wealth
- The commercial property industry contributed around £68 billion to the UK economy in 2015 – 4.1% of the total UK economy.
- Commercial property accounts for 13% of the value of the built environment in the UK.
- Rents have increased at a much slower rate than inflation, turnover and other business costs over the last 10 years
- Investors own £483 billion of the UK’s commercial property, with as much as 28% of that accounted for by overseas investors.
- Direct and indirect exposures to commercial property account for £178 billion of UK insurance company and pension fund investments that support the nation’s savings.
- The commercial property industry directly employs almost one million people – one in every 35 jobs in the UK.

Property Industry Alliance (PIA), 19th October 2016, *Property Data Report 2016 – Facts and figures about the UK commercial property industry to year-end 2015* [online]. Further information available at **Document listing** @ <https://www.revocommunity.org/documents/list> [accessed 4 January 2017] and

https://www.revocommunity.org/documents/view?id=502&x%5B0%5D=%2Fdocuments%2Flist%3Fn%255Btitle%255D%3DTitle%26n%255Bauthor_of_document%255D%3DAuthor%2BOf%2BDocument%26n%255Bcountry%255D%3DCountry%26n%255Byear_of_publication%255D%3DYear%2BOf%2BPublication%26n%255Bfile_mimetype%255D%3DFile%2BType%26n%255Bcms_documents_tags_link.cms_document_id%255D%3DTags [accessed 4 January 2017]

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Upcoming Revo (formerly BCSC) Research

Revo (formerly BCSC) continues to develop a research programme that reflects industry knowledge requirements. They continue to undertake challenging projects and are seeking to find a balance between in-depth research and other shorter forms of guidance. Revo (formerly BCSC)'s committees continue to help shape and steer our research and it is through this process that topical and under-researched areas are explored.

Some recently published research includes:

- Beyond Retail: Redefining the shape and purpose of town centres
- CCTV in Shopping Centres and Associated Car Parks
- Building Information Modelling (BIM) – Guide to Best Use
- Protection of Vulnerable People
- Servicing Areas for Shopping Centres

Further information and access to research and publications can be found at Revo community (formerly British Council of Shopping Centres (BCSC)), Research and Education [online] and available @ https://www.revocommunity.org/research_education_2/research_education [accessed 4 January 2017]

Further Research + Education information and access to documents can be found at Revo community (formerly British Council of Shopping Centres (BCSC)), Research and Education, and **Document listing** [online] available @ <https://www.revocommunity.org/documents/list> [accessed 4 January 2017]. [Back to top](#)

Foster + Partners, Projects

Foster + Partners' Wuhan masterplan to go ahead

CIOB, Global Construction Review (GCR), 11th June 2015, *Foster + Partners' Wuhan masterplan to go ahead* [online]. Further information is available at <http://www.globalconstructionreview.com/news/foster-partners-wu8ha8n0-m6a4s2ter0p6l4a2n-0g8o/> [accessed 22 November 2016]

Further information and access to the following:

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

are available via the Foster + Partners website [online] and @ <http://www.fosterandpartners.com/projects/> [accessed 4 January 2017]



<https://twitter.com/FosterPartners> [accessed 4 January 2017],



<https://www.facebook.com/fosterpartners> [accessed 4 January 2017],



<https://www.linkedin.com/company/foster-&-partners> [accessed 4 January 2017]



<https://www.youtube.com/user/FOSTERANDPARTNERS1> [accessed 4 January 2017],

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What is Building Information Modelling (BIM)?

- 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.

Source: National Building Specification (NBS), 19 July 2016, '*What is Building Information Modelling (BIM) ?*', **theNBS.com** website [online]. Further information is available at <https://www.thenbs.com/knowledge/what-is-building-information-modelling-bim> [accessed 4 January 2017]

Note: Further information can also be accessed through the above provided web link on: **BIM (Building Information Modelling)** and access to '**what is BIM**' video.

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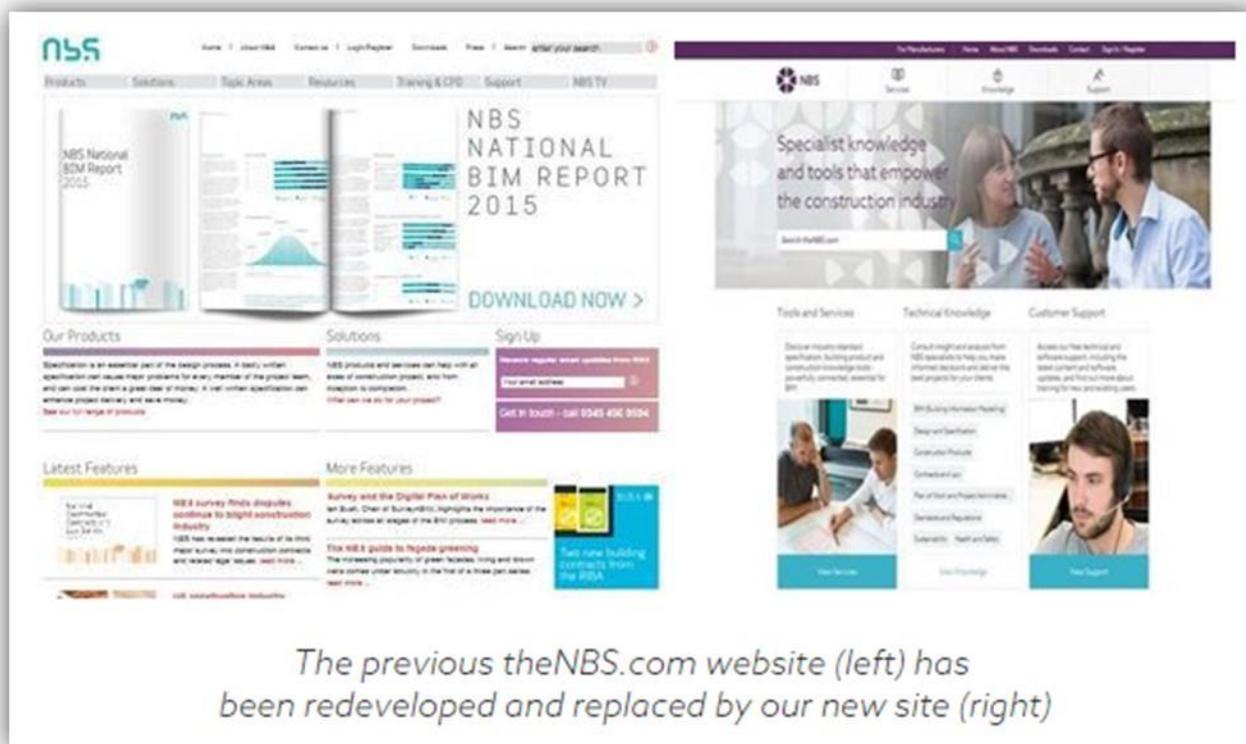
Gain access to theNBS.com website

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**



Getting around the new **theNBS.com** website
 Source: www.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 4 January 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 4 January 2017]

The NBS, NBS TV – Design & Specification [online]. Further information and additional programmes are available at <https://www.thenbs.com/knowledge/design-specification> [accessed 4 January 2017]

The NBS, NBS TV – Building Technologies, *Lighting Technology – Building in Efficiency* [online]. Further information and additional programmes are available at <https://www.thenbs.com/knowledge/lighting-technology-building-in-efficiency> [accessed 4 January 2017]

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National Building Information Modelling (BIM) Library –

Source: NBS (2016), *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 4 January 2017]

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[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.

By running similar surveys (and sharing some key questions) the NBS have been able to compare BIM adoption across the UK, Czech Republic, Canada, Japan and Denmark, shining a light on similarities and differences in current attitudes and beliefs in the future of BIM.

On 25th February 2016, the NBS launched the NBS International Report 2016 which serves to document a complex and every evolving picture – with different stages of BIM development evident in different countries, and the effects of governmental policy (such as the UK government’s BIM mandate) starting to be felt.

What’s in the report?

- Views about BIM and the Government’s construction strategy
- BIM adoption – current and future trends
- Attitudes towards BIM
- The difference BIM makes to a practice
- Specialist opinion pieces

Key findings incl.

- A complex picture – different stages of development are evident in different countries but a broad similarity in views about BIM is evident.
- BIM is seen as the future of project information – in every country, more than three quarters of respondents agree.
- In all countries (bar the Czech Republic) BIM awareness is nearly universal (at over 90%).
- The UK and Canada (surveyed in 2013, and again here) report increased numbers of BIM users – the UK has moved from 39% to 48%, Canada from 64% to 67%, though we urge caution as the term may have different interpretations in different countries.
- Within five years all countries expect BIM to provide 3D visualisations. Clash detection is used by more than three quarters of BIM users in all countries. Performance analysis is also widely used with Denmark leading the way.
- The UK scored highest for agreement that government ‘is on the right track’ and ‘BIM will be required for public sector work’ – suggesting in the UK at least, the design community is open to the idea of the government taking the lead on BIM.
- When it comes to information exchange, Denmark leads the way in Industry Foundation Classes (IFC) use – with 65% of respondents having used them on projects compared to 55% in Japan, 49% in the UK and 45% in the Czech Republic.

- Most respondents recognised that BIM is a process that demands changes in workflow, practice and procedure. Only a small minority of non-users (less than a fifth) say they would rather not adopt BIM. Encouragingly, those that have adopted BIM rarely regret having done so.

Source: The NBS (a trading name of RIBA Enterprises Ltd), 25 February 2016, National BIM Library website, Knowledge, *NBS International BIM Report 2016* [online]. Further information and access to the report in full are available at <https://www.thenbs.com/knowledge/nbs-international-bim-report-2016> [accessed 4 January 2017]

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[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.

What's in the report?

- An introduction to the report from NBS/RIBA Enterprises CEO Richard Waterhouse
- A summary of the 2016 findings from the NBS National BIM Survey
- Feature content exploring; the wide landscape of infrastructure and convergence with geospatial, working towards a unified approach to BIM in Europe, the April 4 mandate from the UK BIM Task Group, Mott MacDonald's journey towards BIM implementation, the Periodic Table of BIM, building on BIM – diversity and change and BIM and the manufacturer.
- The difference BIM makes to a practice
- Expert opinion pieces

The findings at a glance

BIM adoption

- A majority are now aware of and using BIM on at least some of their projects (54%), 42% said they were just aware of BIM, and 4% were neither aware nor using.
- Regardless of where they are now, in a years' time 86% expect to be using BIM on at least some of their projects - and that number increases to 97% in five years' time making BIM universal and routine assuming good intentions are realised.
- Indicative data on BIM adoption by region suggests prevalence in London, the North East, Northern Ireland and Wales. The area with the lowest rate of BIM adoption appears to be the East of England.

Skills and abilities

- Almost half of respondents describe themselves as being 'very' or 'quite' confident of their BIM knowledge and skills, leaving a majority who are not. 23% describe themselves as being 'in between', while 28% describe themselves as 'not very' or 'not at all' confident in BIM.
- Immediate colleagues are the most likely source of BIM information; external professionals were cited by 57% of respondents. NBS were cited by 65% of people, while organisations including the UK BIM Task Group, RIBA and others were also suggested.

Use of standards

- 65% of respondents believe that BIM is not yet sufficiently standardised. 22% neither agree or disagree and 13% disagreed with the statement.
- Standards cited by respondents as being used include the RIBA Plan of Work 2013 (40%), PAS 1192-2:2013 (29%), PAS 1102-3:2014 (23%), BS 1192:2007 (25%).

Creating designs

- 80% of respondents produce 2D models, and 70% 3D. 74% said that they have adopted collaborative techniques and this collaboration extends to sharing models (56% said they had shared such models with design team members outside their organisation, 45% have shared across different disciplines.
- A minority (37%) use models from the start of a project to the very end, suggesting that for most BIM is restricted to the design stages. 30% produce a model that is software dependent and just 16% pass on a model to those responsible for the management of a building.
- When producing drawings, Revit is the most popular tool, followed by ArchiCAD, then Vectorworks. As such a range of tools was cited the need for a standardised non-proprietary format seems clear.

Types of projects

- People are generally more likely to use BIM in public sector projects but there is evidence of significant BIM adoption in private housing, private offices and private leisure. The government BIM mandate does seem to be influencing work in the private sector, not just the public.
- Even among those using BIM, it is not used in every project but is used widely.

Attitudes towards BIM

- People continue to be largely positive with three quarters seeing it as the future of project information. That said, free text comments from respondents suggest a small number of people who are resistant to BIM and do not see the benefits.
- There is some ambivalence about how trustworthy information on BIM is - less than a third trusting what they hear with a significant minority (though it is a minority) feeling BIM is just for larger organisations.
- 76% of people disagree that BIM is a synonym for 3D CAD drawings, 62% disagree that 'it's all about the software'.
- People have a clear appetite for BIM objects - 71% want manufacturers to provide them.
- 90% of users and non-users agreed that BIM implementation requires changes in workflow practices and procedure. The benefits, however, are clear - a majority citing improved co-ordination of documents and project visualisation.
- Those who have adopted BIM are more likely to be positive towards it than those who have yet to - with 69% of adoptees saying that clients will 'increasingly insist' on it, and a majority feeling it brings cost efficiencies and improves client outcomes. 64% believe adopting BIM has given them a competitive advantage.

BIM and government policy

- 77% of respondents said they were aware of levels of BIM maturity. When it came to acknowledging the highest level reached on a project, 4% stated Level 3, 65% Level 2, 30% Level 1 and 1% Level 0.
- Use of Industry Foundation Classes (IFC) has risen to 63% of respondents (it was just 50% back in 2014). COBie (which helps deliver efficiencies throughout the life of the building) was used by just 27%, though, of those that had, two thirds found it useful.
- Three quarters believe the government will make people use BIM for public sector work, two thirds of people believing the government will require 3D BIM on projects by 2016.
- 48% believe the government to be on the right track with BIM. That said, 41% are unclear on what they need to do to comply and just 10% perceive the construction industry as being ready to deliver on the government's requirement.

The BIM advantages

- 63% believe BIM will help bring about a 33% reduction in the initial cost of construction and whole life cost of built assets.
- 57% believe BIM will help bring about a 50% reduction in the time from inception to completion for new-build and refurbished assets
- 39% believe BIM will help bring about a 50% reduction in greenhouse gas emissions in the built environment.

- Less than a third believe that BIM will help create a reduction in the trade gap between total exports and total imports for construction products.

The NBS (a trading name of RIBA Enterprises Ltd), National BIM Library website, *NBS National BIM Report 2016 @theNBS* [online] and available at <https://www.thenbs.com/knowledge/national-bim-report-2016> [accessed 4 January 2017]

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Related Links:

[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> [accessed 4 January 2017]

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[Back to BIM Basics](#)

- In the rush towards a BIM-enabled construction, we should remember what lies at the core of BIM

The majority of papers and articles on Building Information Modelling (BIM) tend to jump straight in from a contemporary construction industry focus and concentrate on the technology angle. However, the author of this article states that we risk missing the bigger picture and forgetting that the whole-life data that drives BIM, is ultimately about helping the construction sector to become a resource-efficient and sustainable industry for the good of the planet.

What, then, has BIM got to do with the environment and how can data be used to drive up sustainability? This article is broken down into three sections covering

- **BIM, data and the environment** - Concepts initially restricted to environmental conservation of the 1960s and 1970s have long since been supplanted by more holistic understanding of sustainable development, with the term 'environment' being expanded to cover all that surrounds us.
- **Ubiquitous data and opportunities for construction** - Sensors, applications, logs, and human interactions feed the process, which in turn enables automation and human decision making.
- **A watershed moment** - Harnessing IT and computing power in the name of the built environment will of course not stop with the government's 2016 deadline Level 2 BIM adoption on public projects.

Source: Snook, K., 18th May 2015, Building Research Establishment (BRE), *Building4Change, Back to BIM Basics* [online] and available at <http://www.building4change.com/article.jsp?id=2644#.VqpB-fmLRaS> [accessed 4 January 2017], **ARTICLE #2644** (BRE).

Building4Change @



<https://twitter.com/Building4change> [accessed 4 January 2017]. [Back to top](#)

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.

Wiley Online Library, Education, Higher Education, *Read a free collection of research on Higher Education* [online]. Further information is available at

http://onlinelibrary.wiley.com/subject/code/000048/homepage/higher_education.htm?dmmsmid=93591&dmmid=22770103&dmmid=2438892 [accessed 4 January 2017]

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Read the most talked about articles in Education!

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

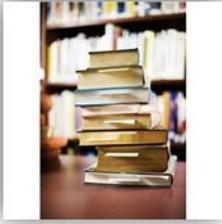
- The effect of Twitter on college student engagement and grades, *Journal of Computer-Assisted Learning*
- Once Upon a Time: Parent-Child Dialogue and Storybook Reading in the Electronic Era, *Mind, Brain & Education*
- The effects of musical training on the decoding skills of German-speaking primary 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*

Source: Wiley Education, **Wiley Online Library**. Further information is available at

<http://dmmsclick.wiley.com/view.asp?m=819id1prqndh7ghnsqt6&u=22770103&f=h> [accessed 4 January 2017]

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RICS Library services and e-Resources



Source: UCEM (2016)

RICS (Royal Institution of Chartered Surveyors) is an international professional body and represents everything professional and 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 4 January 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

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to start
searching the
database **NOW**

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/uhtbin/cgisirsi.exe/0/0/0/60/69/X> [accessed 4 January 2017]

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& finally

University buildings that break the mould – in pictures

These days, every university wants an iconic building to give their image a boost. So they draft in the most famous 'starchitect' they can afford to design something spectacular, something that soars or wobbles or hovers precariously. In Guardian, Higher Education Network, the architecture of universities section, they take a look at what they've produced incl.

- The **Hebei Academy of Fine Arts in Xinle, China**, can be accessed only via a train from platform 9 and three-quarters at King's Cross station
- The student accommodation buildings at the **University of East Anglia, Norwich**, resemble Aztec pyramids – which saves their undergraduates a fortune on gap years to Mexico.
- **Nanyang Tech University in Singapore** saved a fortune on the construction on its new building, The Hive, by utilising volunteers from the local bumblebee population.
- Say what you like about this building at **Ontario College of Art and Design in Toronto**, but it'll never have a mouse problem.
- The Chau Chak Wing business school building at the **University of Technology in Sydney** was completed in February 2016, but has already developed a massive crack.
- The graduate centre at **London Metropolitan University** previously appeared on series three of Robot Wars, and
- Does the **University of Qatar** resemble a delicious Swiss Emmental cheese? Or did I just forget to have lunch?

Topics covered and can be searched upon – **Higher education**; and **Architecture**

Wakefield, L., and Lock, H., (2016) 'University buildings that break the mould – in pictures', *The Guardian* [online], 21 September. Available at <https://www.theguardian.com/education/gallery/2015/sep/21/university-buildings-that-break-the-mould-in-pictures> [accessed 4 January 2017].

Related Links incl.

The Guardian, Higher Education Network: the architecture of universities

Marmot, A., (2015) 'Flashy university buildings: do they live up to the hype?', *The Guardian* [online], 21 September. Available at <http://www.telegraph.co.uk/news/2016/11/22/mapped-stamp-duty-south-england-twenty-times-less-affordable/> [accessed 4 January 2017]

- Universities love a flagship building that sets them apart from the rest. But are they being designed with learning and research in mind?

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Property and Construction Statistics

UK Economy & Property Market Chart Book – RICS Economic Research, October 2016

Within this RICS UK Property Market Chart Book, October 2016, *Economic comment – Some improvement in business sentiment but challenges ahead* –

“Survey data has generally shown some improvement in sentiment over the course of the last month following the initial dip in July 2016 as a result of the vote to leave the EU. However, there remains much uncertainty on the economic outlook, with this turbulence affecting different sectors appearing to be under particular stress, with the 12% decline in the value of the pound cushioning the blow to the manufacturing and services sectors.

For the time being, employment continues to rise firmly with the economy adding 174k jobs in the three months to July 2016. However, survey evidence from the EC suggests a likely slowdown in the pace of job growth over the coming quarter and this will probably take a toll on some aspects of consumer spending in the final quarter of the year. Indeed, the CBI’s September Retail Trade Survey showed 8% more retailers reporting a fall in sales, rather than a rise, relative to the previous year.

In the UK residential property market, buyer demand remained broadly steady in August following the significant falls during the previous four months, while transaction levels flat lined. Alongside evidence from other surveys of rebound in consumer sentiment following the shock of the Brexit vote, surveyors’ expectations for price growth over the year to come have improved again, with 36% more contributors (on a non-seasonally adjusted basis) forecasting a rise rather than a fall. Even the near term outlook has improved slightly with both prices and sales expected to increase slightly over the coming three months (see publication date).

In the construction market, the latest official data for July shows output broadly flatlined compared to June but the underlying downward trend continues. The fall in the value of sterling is putting upward pressure on materials costs with Markit’s measure of input prices reaching a five year high in September. Lead indicators suggest that output will continue to trend down in the months ahead and that employment growth will slow sharply.

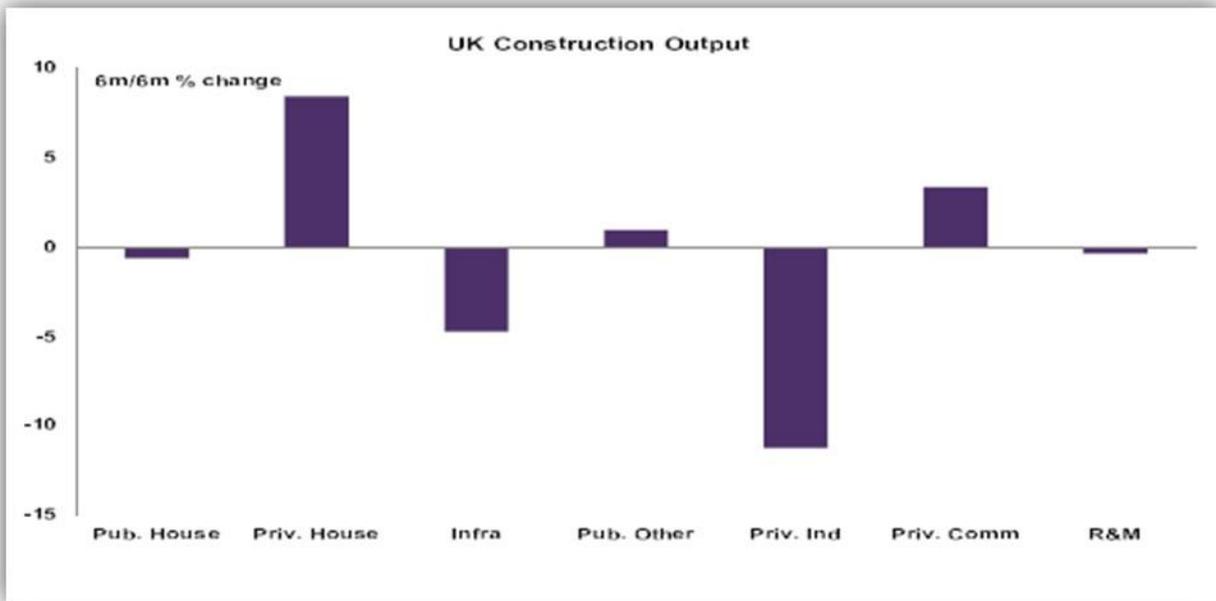
In the commercial property markets, prices fell again in August, albeit much less severely than the previous month with the CBRE index recording a 0.5% decline. The elevated uncertainty has led to a sharp reduction in activity levels and lead indicators suggest that this will remain a feature of the market in the coming quarters. While rental growth will falter in the near term, with vacancy rates still tight, and with the development pipeline already moderating in response to the Brexit vote, this will provide some support for rents over the medium term. Indeed, surveyors still expect rents to rise by 5% over the course of the next three years.”

Source: Rubinsohn, S., Hanley, M., Economist, and Parsons, T., [et al.] Economist, RICS Corporate Affairs, RICS (October, 2016), *Rebound in survey data but slowdown still likely: UK Property Market Chart Book*, RICS, London [online]. Available at <http://www.rics.org/uk/knowledge/market-analysis/uk-economy-and-property-market-chart-book/> [accessed 4 January 2017].

Construction: Recovery in survey data but sluggish growth remains, October 2016

The industrial sector has seen the sharpest decline in output during the first half of the year, but the decline in the much larger infrastructure sector is weighing more heavily on growth.

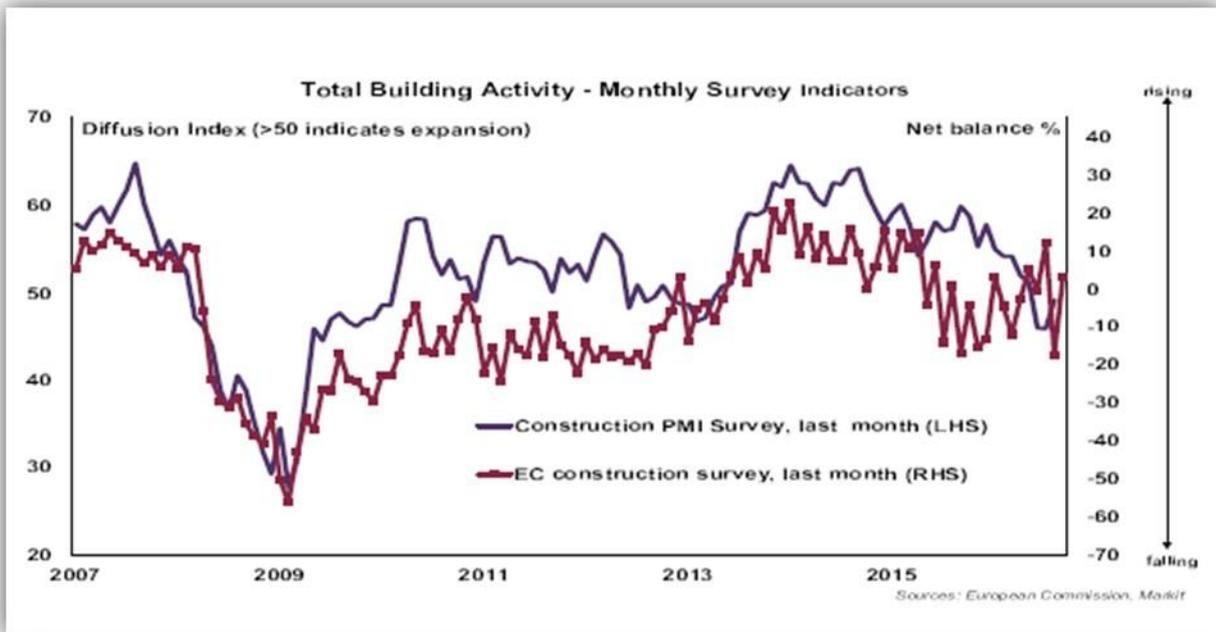
Construction: Recovery in survey data but sluggish growth remains, October 2016



Source: RICS Economics Research: UK Economy & Property Market Chart Book (October, 2016), page 9

Construction, October 2016 cont.

Survey data has shown a slight bounce back in activity following in the months following the vote to leave the EU.



Source: RICS Economics Research: UK Economy & Property Market Chart Book (October, 2016), page 9

Topics covered within this report include

- Economic overview,
- Financial market indicators,
- Economy,
- Construction sector,
- Housing market, and
- Commercial property sector.

Please note: **RICS Economics** - RICS Economics' market surveys and reports are freely available from the RICS web site – <http://www.rics.org/uk/knowledge/> [accessed 4 January 2017]

These include:

- The monthly UK Residential Market Survey
- The quarterly UK Construction Market Survey
- The bi-weekly Asia Economic and Real Estate Research
- The quarterly UK Commercial Market Survey
- The semi-annual UK Rural Market Survey
- The quarterly Global Commercial Market Monitor
- The monthly RICS/ Ci Portuguese Housing Market Survey

Source: Rubinsohn, S., Hanley, M., Economist, and Parsons, T., et al. Economist, RICS Corporate Affairs, RICS (October, 2016), *Rebound in survey data but slowdown still likely, UK Property Market Chart Book, October 2016*, RICS, London [online]. Available at <http://www.rics.org/uk/knowledge/market-analysis/uk-economy-and-property-market-chart-book/> [accessed 4 January 2017].

N.B. The RICS published report, entitled, '*UK Economy & Property Market Chart Book*', 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 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 4 January 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 4 January 2017].

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Office for National Statistics - 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.

Office for National Statistics (2016), Business, industry and trade, Construction industry [online] and available at <http://www.ons.gov.uk/businessindustryandtrade/constructionindustry> [accessed 4 January 2017]

From the above mentioned webpage you can access

Datasets, Publications/articles and **Methodology**, as well as '**All data**' and '**All publications**'

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Construction industry highlights include:

[Construction output in Great Britain: October 2016 and July to September 2016](#)

What's in the bulletin?

- In October 2016, construction output was estimated to have decreased by 0.6% compared with September 2016. All new work decreased by 0.9%, with the largest downward contribution coming from infrastructure, while all repair and maintenance showed no growth.
- Compared with October 2015, construction output increased by 0.7%. All new work increased by 2.9% with repair and maintenance falling by 3.2%. Within all new work total new housing was the biggest upwards contribution with an increase of 12.6%.
- The underlying pattern as suggested by the 3 month on 3 month movement decreased by 0.6%. All new work increased by 0.1% with repair and maintenance falling by 1.9%.

Office for National Statistics (2016), Construction Industry, *Construction output in Great Britain: October 2016 and July to September 2016* [online]. Available at <https://www.ons.gov.uk/businessindustryandtrade/constructionindustry> [accessed 4 January 2017] and <https://www.ons.gov.uk/businessindustryandtrade/constructionindustry/bulletins/constructionoutputingreatbritain/oct2016andnewordersjulytosept2016> [accessed 4 January 2017]

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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 December 2015, and
- **Construction Statistics Annual Tables** – These tables cover a wide range of statistics that are currently available on the construction industry.

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Output in the Construction Industry, Construction Statistics Development Programme – [Work plan](#)

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), 11th December 2015, Release: *Output in the Construction Industry, Construction Statistics Development Programme – Work Plan* [online]. Available at <http://www.ons.gov.uk/ons/rel/construction/output-in-the-construction-industry/construction-statistics-development-programme---work-plan/index.html> [accessed 4 January 2017]. **N.B.** This item has been placed with **The National Archives** as the ONS website has now been updated.

Related Link:

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 <http://www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionoutputpriceindicesois/interimsolutionquarter4octobertodecember2015> [accessed 4 January 2017]

- 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 - Latest Edition/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.

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.

Office for National Statistics (ONS), 22 August 2016, *Construction Statistics, No. 17, 2016* [online]. Available at <http://www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/no172016/edition> [accessed 4 January 2017]

Related articles/links:

ONS Article: *Construction Output Indices (OPIs): Interim solution, Quarter 4 (October to December) 2015* [online]. Available at

<http://www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionoutputpriceindicespis/interimsolutionquarter4octobertodecember2015> [accessed 4 January 2017]

- 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.

ONS Article: *Construction Output Price Indices (OPIs): Quarter 2 (April to June) 2016* [online]. Available at

<http://www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/interimsolutionforconstructionoutputpriceindices/quarter2apriltojune2016> [accessed 4 January 2017]

- 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> [accessed 4 January 2017]

Office for National Statistics (ONS), Construction Statistics Articles [online]. Available at

<http://www.ons.gov.uk/businessindustryandtrade/constructionindustry/articles/constructionstatistics/previousReleases> [accessed 4 January 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 [accessed 4 January 2017].

Office for National Statistics (ONS) website [online]. Further information is available at

<http://www.ons.gov.uk/ons/index.html> [accessed 4 January 2017]



<https://twitter.com/ONS> [accessed 4 January 2017],



<https://www.facebook.com/ONS> [accessed 4 January 2017],



<https://www.linkedin.com/company/office-for-national-statistics> [accessed 4 January 2017]



<https://www.youtube.com/user/onsstats> [accessed 4 January 2017],

ONS, Browse by Theme [online] and available @ <http://www.ons.gov.uk/ons/browse-by-theme/index.html> [accessed 4 January 2017]. Please refer to

'Business and Energy' 

'Production Industries'  and

'Building and Construction' 

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Latest RICS Research/Market Surveys available - [UK Residential Market Survey \(2016\)](#)

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, November* (and published 10 November 2016) [online] and available @ <http://www.rics.org/uk/knowledge/market-analysis/rics-residential-market-survey/> [accessed 4 January 2017]

RICS.org.uk <http://www.rics.org/uk/> [accessed 4 January 2017]



<https://twitter.com/RICSNews> [accessed 4 January 2017]



<https://www.facebook.com/ricssurveyors> [accessed 4 January 2017]



<https://www.linkedin.com/groups?gid=88902> [accessed 4 January 2017]

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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

Glenigan website [online] and available at <https://www.glenigan.com/construction-market-analysis/news/2015-construction-kpis> [accessed 4 January 2017]

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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’ 
‘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> [accessed 4 January 2017]

HSE, *About us* [online] and further information is available at <http://www.hse.gov.uk/aboutus/insidehse.htm> [accessed 4 January 2017]

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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> [accessed 4 January 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*.

Rhodes C (2015), *Construction industry: statistics and policy*, House of Commons Library, Briefing Paper Number 01432, 6 October 2015 [online] and available at

<http://researchbriefings.parliament.uk/ResearchBriefing/Summary/SN01432> [accessed 4 January 2017]

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e-Journal Review

RICS **Modus** Digital Magazine – Dec - Jan 2016-2017: [The Disruption issue](#)

- After a turbulent 12 months that's seen the UK decide to leave the EU and the US elect the controversial Donald Trump as President, MODUS are capping off 2016 with a highly appropriate theme: disruption.

Modus in their lead feature, technology journalist Charles Arthur takes a look at the potential for AI to disrupt many of the skilled professions – including surveyors. After being much-hyped in the late 60s and 70s, and then largely forgotten about for 30 years, the technology is finally coming of age ... and it could be coming after our jobs.

Also in this issue, MODUS discusses

- Smart cities may be exciting, but they are also vulnerable to being over-hyped. Modus investigates the realities of the technology today, and where it's making a real difference to urban living.
- Off-site construction up-ends traditional housebuilding, reducing errors and speeding up the delivery of much needed homes. Has its time come at last?
- As digital technology races ahead, are estate agents in danger of being outpaced – and replaced?

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 ... Changes to compulsory purchase orders
- **Business advice** – Improving your office's energy efficiency

This issues features include:

- Robots are coming ... Look busy - Rapid advances in AI mean our jobs are likely to change sooner than you think
- Data-driven cities - Technology is already transforming how we interact with our urban landscape
- Here's one we made earlier - How off-site construction can help alleviate the UK's housing shortage
- Gazumped! - The proptech pioneers upending the traditional estate agency model
- Bangalore version 2.0 - Updates to India's original tech city are turning it into a global competitor?
- Dhow Factor - Was construction of Dubai's new opera house plain sailing?
- **Thinking:** Simon Rubinsohn - RICS' Chief Economist surveys the new political landscape after momentous votes on both sides of the Atlantic
- **Difference of opinion** – Should the UK government spend billions on renovating the Houses of Parliament? Two points of view are heard.
- Mind Map - The Global Disaster Resilience Centre's Dilanthi Amaratunga FRICS on risk reduction
- Professional Development - What does being an expert witness entail?
- Careers - Knowing when to call it quits; MBM director Nicola Woodward MRICS

Topics covered include 'Planning & Development', 'Commercial property', 'Facilities Management', 'Quantity surveying & construction' and 'Infrastructure'

Royal Institution of Chartered Surveyors (RICS), Oliver Parsons, Editor of Modus, *Modus*, Dec – Jan 2016-2017 – The Disruption issue [online], RICS, Knowledge, Journals. Available at:

<http://www.rics.org/uk/news/journals/modus/the-disruption-issue/> [accessed 4 January 2017]

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 4 January 2017]

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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. Their 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, (2016), 'On the road to recovery in Yorkshire', *Contractors World UK & Ireland* Volume 6, No 2, 2016, Pages 20 & 21 of 39 [online]. Further information available at <http://cwmags.co.uk/cwuk-6-2/basic/index.php> [accessed 4 January 2017] and <http://cwmags.co.uk/cwuk-6-2/basic/page20.php> [accessed 4 January 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, and including videos [online]. Available at <http://cwmags.co.uk/index.php> [accessed 4 January 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 4 January 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 4 January 2017].

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BIFM Digital Magazine – *FM World* December 2016: the latest issue

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

In this latest issue,

FM Industry News:

- Public want more taxes to be spent on local maintenance
- Stan Mitchell wins BSI Leadership award
- Higher education sector thriving as its estates expand
- Workers' sleep loss costs UK £40bn a year
- 25% of workers with mental health problems fear lack of support

Business News:

- Surrey's waste collection contract is awarded to Amey
- Support services power Carillion's operating profit
- Eric Wright FM begins 25-year PFI deal in Stoke
- F3 scores 10-year deal with Watford
- CBRE bags deal with publisher Pearson

News analysis:

- Jail breakthrough
- Planning in social value from the outset
- Think Tank: Nutrition and cognitive performance
- Shopping for multi-talented future FMs
- Think Take: The best of our ability

Business analysis:

- Mitie and Capita face period of adjustment
- Brexit means not a lot
- UK investors cheer on global FM firms
- A design for living
- FM sector turns deaf ear to 'project fear'

Source: British Institute of Facilities Management (BIFM), *FM World*, News, 6th and 7th December 10th and 24th November 2016, [fm-world.co.uk](http://www.fm-world.co.uk) [online]. Further information available at <http://www.fm-world.co.uk/> [accessed 07 December 2016] and

<http://www.fm-world.co.uk/news/> [accessed 22 November 2016], London: Redactive Publishing Ltd.

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The Heritage Alliance's latest **'Heritage Update' E-Bulletin – December 2016**

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 (December 2016) 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 Day 2016 – Thank you!
- Welcome to new members
- **Cultural Property (Armed Conflicts) Bill round table**

- Crowdfunding opportunities for heritage in the North West and South West of England

News round-up:

- **Heritage Counts 2016**
- **Historic England Research Strategy**
- Theatres Trust – Urgent Repairs Fund
- New standards announced for Government grants – a resolution to the anti-lobbying clause?
- **£4 million and new strategy to help public libraries prosper**
- Minister for Civil Society appears before Lords Committee
- The future of public parks
- 1,600 responses to Museums Review call for evidence
- First World War Centenary Cathedral Repairs Fund
- **Andrea Leadsom on the future of the rural economy**
- **Updated Countryside Stewardship grants forms**
- Advisory Group to examine how individuals can make a social impact with their investments
- Government supports #GivingTuesday
- A call for Government to renew its commitment to protecting England’s National Parks
- Concerns over youth volunteering in heritage industries
- **House of Lords motion to reduce its size**
- CCT Regeneration Taskforce Publishes Impact Report
- **Government review of the Homes and Communities Agency published**
- ‘Europe will be the museum where people come to spend their money’
- Britain’s oldest manufacturing company to close
- National Railway Heritage Awards 2016

Have your say

- Heritage 2020 consultation
- Charity Commission survey on its digital services

and more.

Source: Heritage Update e-Bulletin [online], Issue **No 337**, 9 December 2016, The Heritage Alliance. Available at: <http://www.theheritagealliance.org.uk/heritage-update> [accessed 22 December 2016]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at <http://www.theheritagealliance.org.uk/update/> [accessed 22 December 2016]



https://twitter.com/Heritage_NGOs [accessed 22 December 2016]



<https://www.linkedin.com/grp/home?gid=4898001> [accessed 22 December 2016]

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Cultural Property (Armed Conflicts) Bill round table

During the Committee’s scrutiny of the Bill the Parliamentary Under-Secretary of State for Culture, Media and Sport, **Tracey Crouch, said:** ‘our provisional thinking is that general protection status would extend to buildings, historical gardens or parks of Grade 1 or category A status; cultural World Heritage Sites; and nationally

important collections in museums, galleries and universities, as well as in the national record offices and our five legal deposit libraries’.

The Heritage Alliance attended a round table on the categories of cultural property which should be covered by the Bill. The Heritage Alliance expressed concerns on, among other things, the lack of protection for any Scheduled Monuments or Designated Wrecks, the exclusion of Cathedral collections and the exclusion of property on Historic England’s buildings at risk list from general protection. DCMS will now give further consideration to the points raised by attendees.

The date for the **Report Stage of the Bill** is yet to be announced.

Related Links:

TheyWorkForYou makes Parliament easier to understand [online]. Further information is available at <https://www.theyworkforyou.com/> [accessed 22 December 2016]

Enforcement: costs, Cultural Property (Armed Conflicts) Bill [Lords] – in a Public Bill Committee at 3:00pm on 15th November 2016, Tracey Crough, The Parliamentary Under-Secretary of State for Culture, Media and Sport - https://www.theyworkforyou.com/psc/2016-17/Cultural_Property_%28Armed_Conflicts%29_Bill/02-0_2016-11-15c.53.4#g61.7 [accessed 22 December 2016]

www.parliament.uk, Parliamentary business, Bill & legislation, *Cultural Property (Armed Conflicts) Bill [HL] 2016-17* [online]. Further information is available at <http://services.parliament.uk/bills/2016-17/culturalpropertyarmedconflicts.html> [accessed 22 December 2016]

Source: Heritage Update e-Bulletin [online], Issue **No 337**, 9 December 2016, The Heritage Alliance. Available at: <http://www.theheritagealliance.org.uk/heritage-update> [accessed 22 December 2016]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at <http://www.theheritagealliance.org.uk/update/> [accessed 22 December 2016]

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Heritage Counts 2016

Historic England formally launched **Heritage Counts 2016** at the Alliance’s Heritage Day event on 1st December 2016. The reports have been published by Historic England on behalf of England’s leading heritage organisations, which make up the Historic Environment Forum.

Key findings include:

- Participation in heritage is rising fastest among adults from lower socio-economic groups and Black and Minority Ethnic groups;
- Dramatic decrease in the participation gap between least and most deprived communities;
- Historic sites are attracting more visitors and membership of heritage organisations is increasing;
- Three quarters of the adult population participated in heritage activity last year; and
- Heritage is being used to help shape both national and local identity in “place branding” which helps maximise the value of a place for residents and visitors.

Further information is available on the Historic England [online]. Available at <https://historicengland.org.uk/research/heritage-counts/2016-heritage-and-place-branding/> [accessed 22 December 2016]

Source: Heritage Update e-Bulletin [online], Issue **No 337**, 9 December 2016, The Heritage Alliance. Available at: <http://www.theheritagealliance.org.uk/heritage-update> [accessed 22 December 2016]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at <http://www.theheritagealliance.org.uk/update/> [accessed 22 December 2016]

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Historic England Research Strategy

The **Historic England Research Strategy**, gives an overview of Historic England's approach to the heritage research that it carries out or supports or encourages others to undertake. It sets out the context and objectives for its work, and provides information for those looking to work with Historic England to carry out research. It includes nine broad research themes seen as key to the sector – identified to help stimulate action.

The publication of the Research Strategy is the first step in providing updated information about Historic England's research effort. The next step, the Research Agenda, will comprise a broad set of topics which Historic England believe will have a beneficial impact for the heritage sector. These will include a narrower and sharper set of research priorities that it will resource with staff or funding to support delivery of the current Historic England Corporate Plan.

Further information and access to the Historic England Research Strategy is available via the Historic England website [online]. Available at <https://www.historicengland.org.uk/research/agenda> [accessed 22 December 2016]

- Historic England research cover nine broad themes to show the range of their work, to aid communication and to foster research and partnerships with others research these broad themes. Their research is delivered through a mix of in-house research, commissioned research and collaborative working. The themes incl.

- **#value** – Understanding the value of heritage to society
- **#understand** – Discovering and understanding our heritage and assessing its significance
- **#diversify** – Celebrating the cultural diversity of England
- **#adapt** – Understanding risks, change and opportunities
- **#conserve** – Caring for England's most important heritage
- **#inform** – Improving and developing heritage information management
- **#skill** – Supporting and improving the heritage sector
- **#inspire** – Inspiring others with our research
- **#innovate** – Developing technology and tools

Source: Heritage Update e-Bulletin [online], Issue **No 337**, 9 December 2016, The Heritage Alliance. Available at: <http://www.theheritagealliance.org.uk/heritage-update> [accessed 22 December 2016]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at <http://www.theheritagealliance.org.uk/update/> [accessed 22 December 2016]

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£4 million and new strategy to help public libraries prosper

Libraries Deliver: Ambition for Public Libraries in England 2016-2021 calls on local authorities to make use of buildings, staff and services, and think innovatively to help increase reading, literacy and digital access in communities.

The report says library buildings should be used to provide access to a range of public services such as employment, health and learning opportunities to make sure libraries have a sustainable future.

A new £4 million 'Opportunities for Everyone Innovation Fund' is intended to deliver new initiatives for disadvantaged communities across the country.

Related Link:

GOV.UK, Department for Culture, Media & Sport, 1 December 2016, First published: 1 December 2016, Last updated: 20 December 2016, *Corporate report – Libraries Deliver: Ambition for Public Libraries in England 2016 to 2021* [online]. Available at <https://www.gov.uk/government/publications/libraries-deliver-ambition-for-public-libraries-in-england-2016-to-2021> [accessed 22 December 2016]

Source: Heritage Update e-Bulletin [online], Issue **No 337**, 9 December 2016, The Heritage Alliance. Available at: <http://www.theheritagealliance.org.uk/heritage-update> [accessed 22 December 2016]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at <http://www.theheritagealliance.org.uk/update/> [accessed 22 December 2016]

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Andrea Leadsom on the future of the rural economy

Andrea Leadsom, Secretary of State for Environment, Food and Rural Affairs, spoke about the future of the rural economy **in her address** to the Country Land and Business Association (CLA)'s inaugural rural business 2030 conference. The CLA is the membership organisation for owners and managers of land, property and businesses in rural England and Wales.

The Secretary of State said: 'my department will soon be consulting on a framework for our two 25-year plans – one on food, farming and fisheries, and one for the environment ... working to a timeframe much longer than the normal political cycle, these plans can chart a course for our future, outlining the challenges and the opportunities facing these important areas.'

The **CLA rural business 2030 report** contains a recommendation on continued planning reform (CLA members in the report identified planning as one of the biggest barriers to investment), alongside other recommendations including raising environmental ambitions, and a welsh-style statutory duty to future generations.

Andrea Leadsom said: 'we need a planning system that matches the ambition of rural businesses, and I can assure you this is something I take really seriously. The rural productivity plan committed the government to review planning constraints – and we will be announcing some very positive next steps in the housing white paper which will include details relevant to rural businesses.'

The Heritage Alliance will continue to work to ensure that the environment and historic landscapes will be safeguarded, maintained, and improved.

Related Link:

GOV.UK, Department for Environment, Food & Rural Affairs and The Rt Hon Andrea Leadsom MP, 6 December 2016, Part of: Rural economy and community, *Speech: A government that supports rural business* [online]. Available at <https://www.gov.uk/government/speeches/a-government-that-supports-rural-business> [accessed 22 December 2016]

CLA - Country Land and Business Association (2016), *Rural Business 2030 – Unlocking Investment, Unlocking Potential* [online]. Available at <http://www.cla.org.uk/conference2016> [accessed 22 December 2016]

Source: Heritage Update e-Bulletin [online], Issue **No 337**, 9 December 2016, The Heritage Alliance. Available at: <http://www.theheritagealliance.org.uk/heritage-update> [accessed 22 December 2016]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at <http://www.theheritagealliance.org.uk/update/> [accessed 22 December 2016]

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Updated Countryside Stewardship grants forms

Countryside Stewardship (CS) provides financial incentives for land managers to look after their environment through activities such as:

- Conserving and restoring wildlife habitats;
- Flood risk management;
- Woodland creation and management;
- Reducing widespread water pollution from agriculture;
- Keeping the character of the countryside;
- Preserving features important to the history of the rural landscape; and

- Encouraging educational access.

Click here for updated Countryside Stewardship capital grants form.

Also published are the forms of the **Woodland Creation Grant**, a standalone capital grant under Countryside Stewardship. Farmers and other land managers can apply for a 2 year works programme to plant and protect young trees. Subject to eligibility, a supporting maintenance grant of £200 per hectare for 10 years may also be available.

Related Links:

GOV.UK, Forestry Commission, Natural England, Department for Environment, Food & Rural Affairs, and Rural Payments Agency, Part of: Biodiversity and ecosystems, Food and farming industry, Land management, Rural grants and payments, and Farming, 15 June 2015, Last updated 20 December 2016, *Collection: Countryside Stewardship* [online]. Available at <https://www.gov.uk/government/collections/countryside-stewardship-get-paid-for-environmental-land-management> [accessed 22 December 2016]

GOV.UK, Natural England, Forestry Commission, Department for Environment, Food & Rural Affairs and Rural Payments Agency, first published: 1 February 2016, Last updated: 20 December 2016, Part of Countryside Stewardship forms and Countryside Stewardship: woodland support. Applies to England, *Form – Countryside Stewardship: capital grant application form* [online]. Available at <https://www.gov.uk/government/publications/countryside-stewardship-capital-grant-application-form> [accessed 22 December 2016]

GOV.UK, Natural England, Forestry Commission, Department for Environment, Food & Rural Affairs and Rural Payments Agency, first published: 7 December 2016, Last updated: 8 December 2016, Part of: Countryside Stewardship, Countryside Stewardship: woodland support and Farming, applies to England, *Guidance – Countryside Stewardship: woodland creation grant manual 2017* [online]. Available at <https://www.gov.uk/government/publications/countryside-stewardship-woodland-creation-grant-manual-2017> [accessed 22 December 2016]

Source: Heritage Update e-Bulletin [online], Issue **No 337**, 9 December 2016, The Heritage Alliance. Available at: <http://www.theheritagealliance.org.uk/heritage-update> [accessed 22 December 2016]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at <http://www.theheritagealliance.org.uk/update/> [accessed 22 December 2016]

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House of Lords motion to reduce its size

The House of Lords has **debated a motion** from Lord Cormack of the Conservative Party to resolve that ‘this House believes that its size should be reduced, and methods should be explored by which this could be achieved’.

Following the debate, the **Lord Speaker, Lord Fowler, said:**

‘The House of Lords today has made a unique statement, by members themselves agreeing unanimously that it should be smaller. This is a significant step forward and represents a substantial consensus. It shows that Members of the Lords want reform and see the present size of over 800 as an obstacle in the way of the effective running of the House.

‘Now that the House has agreed that its size needs to be reduced, we must now work towards proposals on how this can be achieved.’

Related Links:

www.parliament.uk, Hansard Online, House of Lords Hansard, Lords Chamber, 5 December 2016, Volume 777 [online]. Available at <https://hansard.parliament.uk/lords/2016-12-05/debates/33D6B4D7-C35D-4330-9F34-44C12BF5338C/HouseOfLordsSize> [accessed 23 December 2016]

www.parliament.uk, Parliamentary business, News, *Lords debates size of the House* [online]. Available at <http://www.parliament.uk/business/news/2016/december/lords-debates-size-of-the-house/> [accessed 23 December 2016]

Source: Heritage Update e-Bulletin [online], Issue **No 337**, 9 December 2016, The Heritage Alliance. Available at: <http://www.theheritagealliance.org.uk/heritage-update> [accessed 22 December 2016]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at <http://www.theheritagealliance.org.uk/update/> [accessed 22 December 2016]

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Government review of the Homes and Communities Agency published

The Department of Communities and local Government has published a **review of the Homes and Communities Agency (HCA)**.

The Review concluded that the agency should continue as a public body with a renewed and revitalised purpose of supporting housebuilding and increasing the supply of available land.

Another recommendation was that the HCA should consider how it can build a more coherent view of stakeholder attitudes without significant expenditure and ensure it acts on the results to continually improve.

Related Links:

GOV.UK, Department for Communities and Local Government, First published: 30 November 2016, Part of: Government transparency and accountability, Applies to: England, *Corporate report – Tailored Review of the Homes and Communities Agency* [online]. Available at <https://www.gov.uk/government/publications/tailored-review-of-the-homes-and-communities-agency> [accessed 23 December 2016]

Source: Heritage Update e-Bulletin [online], Issue **No 337**, 9 December 2016, The Heritage Alliance. Available at: <http://www.theheritagealliance.org.uk/heritage-update> [accessed 22 December 2016]

Heritage Update: **the online edition** of the fortnightly e-bulletin [online] and available at <http://www.theheritagealliance.org.uk/update/> [accessed 22 December 2016]

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Latest Edition of **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 innovation in open, distance and flexible education.

Open Praxis [online]. Available at <http://openpraxis.org/index.php/OpenPraxis> [accessed 22 December 2016] and

Open Praxis Archives [online]. Further information available at <http://openpraxis.org/index.php/OpenPraxis/issue/archive> [accessed 22 December 2016]



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ISSN: 2304-070X

Open Praxis, Volume 8, No. 4, October - December (2016)

Papers (available in full-text versions) include the following:

Editorial -

- **Title: Introduction to Open Praxis volume 8 issue 4**

ISSN: 2304-070X

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

Abstract: This last Open Praxis Issue in 2016 is an open issue that includes four research papers, four innovative practice papers and two book reviews

Keywords: open education; eLearning; oer; mooc; capacity building; higher education; professional development; access; distance education

Reference: Gil-Jaurena, I. (2016). Introduction to Open Praxis volume 8 issue 3. *Open Praxis*, 8(4), 281-282

doi: 10.5944/openpraxis.8.3.360

Research articles -

- **Title: Pedagogical framing of OER – The case of language teaching**

ISSN: 2304-070X

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

Abstract: This study investigates what characterises teachers' pedagogical design of OER, and potential affordances and constraints in pedagogical design in an open education practice, when contributing to a Swedish repository Lektion.se. The teachers' framing of the OER shared on the repository included the analyses of a delimited number of OER for learning Swedish. The analytical work with analysing what characterised the OER, was followed up with teacher interviews to explore teachers' incentives for sharing. The OER selected for analysis were investigated linked to the features given in the repository, to identify what distinguished different categories of OER when framed by the teachers. The OER displayed a continuum of ways of framing an activity, through the majority was represented by low levels of description, which afforded less guidance. The teachers expressed a positive attitude towards sharing. The findings suggest that OER need to be defined and supported by web features to enable going beyond reuse.

Keywords: OER; sharin; participation; pedagogical design; repository.

Reference:

Bradley, L., & Vigmo, S. (2016). Pedagogical framing of OER - The case of language teaching. *Open Praxis*, 8(4), 283-295.

doi: 10.5944/openpraxis.8.4.336

- **Title: Web Strategies for the Curation and Discovery of Open Educational Resources**

ISSN: 2304-070X

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

Abstract: For those receiving funding from the UK HEFCE-funded Open Educational Resource Programme (2009-2012), the sustainability of project outputs was one of a number of essential goals. Our approach for the hosting and distribution of health and life science open educational resources (OER) was based on the utilisation of the WordPress.org blogging platform and search engine optimisation (SEO) techniques to curate content and widen discovery.

This paper outlines the approaches taken and tools used at the time, and reflects upon the effectiveness of web strategies several years post-funding. The paper concludes that using WordPress.org as a platform for sharing and curating OER, and the adoption of a pragmatic approach to SEO, offers cheap and simple ways for small-scale open education projects to be effective and sustainable.

Keywords: Open educational resources; OER; Technology solutions; Search engine optimisation; SEO; Web Discover.

Reference: Rolfe, V. (2016). Web Strategies for the Curation and Discovery of Open Educational Resources. *Open Praxis*, 8(4), 297-312.

doi: 10.5944/openpraxis.8.4.305

- **Title: Student Assessment of Quality of Access at the National Open University of Nigeria (NOUN)**

ISSN: 2304-070X

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

Abstract: This paper presents a study conducted by Inegbedion, Adu and Ofulue from the National Open University of Nigeria. The study focused on the quality of access (admission and registration) at NOUN from a student perspective. A survey design was used for the study while a multi-stage sampling technique was used to select the sample size. All the 78,555 registered students in all the 61 Study Centres of the University at the time of the study formed the population; out of which 3,060 students were samples. The questionnaire instrument is the Institutional Internal QA Tools and Instrument developed by the African Council for Distance Education (ACDE) as a regulatory mechanism. The data collected were analysed using simple statistics. The result showed that 66% of the students confirmed that NOUN has published clear policies on the admission and registration of students. About 29.1% of the students were not satisfied with the transparency of the admission process. In conclusion, the study revealed high quality of access and some deficiencies in website and Internet connectivity.

Keywords: Access; Quality; Student assessment; Higher Education; distance education

Reference: Inegbedion, J., Adu, F., & Ofulue, C. (2016). Student Assessment of Quality of Access at the National Open University of Nigeria (NOUN). *Open Praxis*, 8(4), 313-323.

doi: 10.5944/openpraxis.8.4.313

- **Title: Role of Faculty Development Forums in Virtual Teaching Environment: A Case Study of Marketing Research & Case Group**

ISSN: 2304-070X

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

Abstract: The online learning has broadened the teaching spectrum from Face-to-Face to virtual environment, and this move has brought traditional teacher-centered instruction to learner-centered instruction. This

paradigm shift appears to place demands on faculty to modify faculty's instruction roles that are different from those encountered in Face-to-Face teaching. This study explores the role of faculty development forum in improving the virtual teaching skills of academic staff members in an online university. The study has used single holistic case study approach, and the data from nine respondents have been collected through an interview schedule divided into four sections of 1) Basic Information, 2) Presentation Skills, 3) Subject Knowledge and 4) Research Orientation as per the objectives of the study. It can be theorized from the findings of the study that in virtual environments were faculty members lack the learning opportunities and exposure available in the conventional environments such forums prove to be very effective in capacity building of the faculty.

Keywords: Capacity Building; Virtual Learning; Teaching Skills; Faculty Development

Reference: Sandhu, R., & Hussain, S. (2016). Role of Faculty Development Forums in Virtual Teaching Environment: A Case Study of Marketing Research & Case Group. *Open Praxis*, 8(4), 325-335.

doi: 10.5944/openpraxis.8.4.314

Innovative practice articles -

- **Title: Building Capacity for Open and Distance Learning (ODL) in West Africa Sub-region: The Pivotal Role of RETRIDAL**

ISSN: 2304-070X

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

Abstract: The paper posits the Regional Training and Research Institute for Distance and Open Learning (RETRIDAL) as an institution established for the purpose of enhancing Open and Distance Learning in the West African sub-region. The institute has pursued this mandate with an unparalleled vigour since its establishment in 2003 – a partnership of the Commonwealth of Learning and the National Open University of Nigeria. It is the opinion of this paper that enhancing the Open and Distance Learning mode of education in the West African sub region will require building capacity. Consequently, RETRIDAL has championed this cause through workshops and training sessions as well as commissioning research studies in Nigeria and other West African countries. The objective is to produce suitably qualified manpower that is able to utilise ODL to mitigate the exploding demand for access to education in the sub-region. The paper also foresees a future of ODL and RETRIDAL for West Africa, as many universities are keying into the distance education paradigm.

Keywords: Capacity Building; Access to Education; Distance Education; Open Education; Educational Demand

Reference: Amini, C., & Oluyide, O. (2016). Building Capacity for Open and Distance Learning (ODL) in West Africa Sub-region: The Pivotal Role of RETRIDAL. *Open Praxis*, 8(4), 337-350.

doi: 10.5944/openpraxis.8.4.346

- **Title: Teaching Project Management on-line: lessons learned from MOOCs**

ISSN: 2304-070X

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

Abstract: Creating a course for teaching project management online in a full online distance-learning environment was a challenge. Working with adult learners from different continents that want to complete a Master degree was an additional challenge. This paper describes how different MOOCs were used to learn about teaching –(meta) e-learning. MOOCs provide diverse opportunities for teachers to learn and innovate in e-learning. From the analysis of 5 MOOCs in the broad field of project management we took important lessons on how to structure contents, how to prepare complex assignments and, the most important lesson of all, how to help students to learn. This paper describes our journey of learning from MOOCs how to be better online teachers.

Keywords: Problem based learning; e-learning; MOOCs; student-centered learning

Reference: Falcao, R., & Fernandes, L. (2016). Teaching Project Management on-line: lessons learned from MOOCs. *Open Praxis*, 8(4), 351-358.

doi: 10.5944/openpraxis.8.4.357

Book reviews -

- **Title:** *Book Review of Minds Online: Teaching Effectively With Technology*

ISSN: 2304-070X

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

Abstract: As online learning continues to flourish, educators and institutions frequently question how to leverage emerging technologies in a way that effectively enhances the learning process for students. In *Minds Online*, Miller (2014) suggests that we already have an answer to this question – we just need to know where to look. Reflecting on basic fundamentals found in cognitive psychology, the author advocates a provocative approach: We need to align our teaching with the way the mind works.

Keywords: Distance Learning; higher education; teaching method

Reference: Sand, N. (2016). Book review of *Minds Online: Teaching Effectively With Technology*. *Open Praxis*, 8(4), 359-360.

doi: 10.5944/openpraxis.8.4.337

- **Title:** *Book Review of Developing Adaptive and Personalized Learning Environments*

ISSN: 2304-070X

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

Abstract: Technology continues to offer expanding opportunities for learners to gain knowledge in any environment, with all manner of devices. With the growth of open learning environments, online learning, ubiquitous computing, and learning analytics, adaptive and personalised learning environments have the potential to optimize learning and collaboration. This promise comes with a complex set of challenges, and Kinshuk has written a thorough and well-structured book to talk instructional designers and instructors through many of the key factors to be considered.

Keywords: educational technology; personalised learning environments; adaptive learning environments

Reference: Ward, J. (2016). Book review of *Developing Adaptive and Personalized Learning Environments*. *Open Praxis*, 8(4), 361-363.

doi : <http://dx.doi.org/10.5944/openpraxis.8.4.375>

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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/> [accessed 21 December 2016]

Papers in this latest issue of *Online Learning Journal* incl.

- Richardson, J. C., (2016) 'Introduction to the Special Issue: Best Papers Presented at the AERA 2016 Online Teaching and Learning SIG', *Online Learning Journal*, Volume 20 (4)
- The American Educational Research Association (AERA), founded in 1916, is the premier association of educational research professionals. AERA has more than 25,000 members and is international in scope, with members representing over 85 countries world-wide. It is concerned with improving the educational process by encouraging scholarly inquiry related to education and evaluation and by promoting the dissemination and practical application of research results. To that end, AERA's annual meeting includes thousands of juried presentations of substantive research findings across a range of disciplines.

AERA support 12 divisions and 150 Special Interest Groups (SIGs). One of the latter is the Special Interest Group on Online Teaching and Learning (SIG-OTL). SIG-OTL is a multi-disciplinary community of scholars focused on the creation, use, and evaluation of online learning environments. (For more information see the SIG-OTL website [online] and available at: <http://www.aera.net/SIG035/Online-Teaching-and-Learning-SIG-35> [accessed 21 December 2016])

At the 2016 Annual Meeting, SIG-OTL sponsored 58 presentations of research in a variety of formats, from a set of over 120 proposals. The papers listed below were selected from those accepted papers.

- Phirangee, J., (2016) 'Students' Perceptions of Learner-Learner Interactions that Weaken a Sense of Community in an Online Learning Environment', *Online Learning Journal*, 20(4)
- Despite the growth of its popularity in recent years, online learning has demonstrated high dropout rates compared to dropout rates in traditional face-to-face courses. Prior research attributes attrition to the physical isolation of students from one another and the lack of interaction between and among them – factors which foster feelings of alienation, isolation, and disconnection. The goal of this research study was to more deeply understand the causes of such negative feelings, which may eventually lead students to drop out of online courses. More specifically, this study adopted a qualitative approach by interviewing six graduate students to further explore which specific learner-learner interactions weaken online students' sense of community. Seven learner-learner, interactions were identified: the keener, lack of meaningful data, selective listening, lack of attribution, going off on tangents, editing notes, and cultural exclusion.

Keywords: online learning, learner-learner interaction, dropout/retention

- Olesova, L., Slavin, M., and Lim, J., (2016) 'Exploring the Effect of Scripted Roles on Cognitive Presence in Asynchronous Online Discussions', *Online Learning Journal*, 20(4)
- The purpose of this study was to identify the effect of scripted roles on students' level of cognitive presence in asynchronous online threaded discussion. A quantitative content analysis was used to investigate: (1) what level of cognitive presence is achieved by students' assigned roles in asynchronous online discussions; (2) difference between students' cognitive presence when the asynchronous online discussions occur during a 5-week intensive summer class versus a 15-week regular class (fall and spring); and (3) the impact of the types of questions on students' cognitive presence in role-based asynchronous online discussions across three semesters in an online introductory nutrition course.

Keywords: asynchronous online discussions; role assignment; scripted roles; cognitive presence; online teaching and learning.

- Jennings, M., (2016) 'Culturally Responsive Teaching Knowledge and Practices of Online Faculty', *Online Learning Journal*, 20(4)
- Cultural differences between faculty and their students can create important changes that affect the quality and efficacy of online teaching and learning. The objectives of this study were to: (a) create and pilot test an assessment for online faculty to measure culturally responsive teaching knowledge (CRT) and culturally responsive educational practices (CREP) in teaching and advising students of colour, military students, LGBTQ students, religious minority students and international students; (b) describe participants' CRT knowledge, value, and CREP; and (c) examine differences between their knowledge and their practices.

Keywords: Cultural responsiveness; culturally responsive teaching; culturally responsive education practices; online teaching

- Ruane, R., and Lee, V., (2016) 'Analysis of Discussion Board Interaction in an Online Peer-Monitoring Site', *Online Learning Journal*, 20(4)

- This study uses Critical Discourse Analysis and Social Network Analysis to examine an online peer mentoring site created to unite first-year and third-year preservice teachers enrolled in an undergraduate teaching education program.

Keywords: peer-mentoring, computer-supported collaborative learning, online learning, higher education

- Lowes, S., Lin, P., and Kinghorn, B. R., (2016), 'Gender Difference in Online High School Courses', *Online Learning Journal*, 20(4)

- Prior research has suggested that there may be differences in the ways that male and female students approach their online courses. Using data for 802 high school students enrolled in 14 online courses, this study explored gender difference in the interrelationships among online behaviours and course performance.

Keywords: online learning, LMS research, gender differences

- Rice, M. F., and Carter, R. A., (2016), 'Online TeacherWork to Support Self-Regulation of Learning in Students with disabilities at a Fully Online State Virtual School', *Online Learning Journal*, 20(4)

- Students with disabilities represent a growing number of learners receiving education in K-12 fully online learning programs. They are, unfortunately, also a large segment of the online learning population who are not experiencing success in these environments. In response, scholars have recommended increasing instruction in self-regulation skills for these students, but whether teachers are able to promote self-regulation as part of their instruction and how they will do so remains unknown. The purpose of this qualitative study was to examine how practicing teachers provided self-regulation strategies to students with disabilities in a fully online learning environment.

Keywords: self-regulation, practicing online teachers, students with disabilities, teacher thinking about strategies, K12 virtual schools, online learning policy

- Whiteside, A. L., Dikkers, A. G., and Lewis, S., (2016) "'More Confident Going into College": Lessons Learned from Multiple Stakeholders in a New Blended Learning Initiative'. *Online Learning Journal*, 20(4)

- This article examined a blended learning initiative in a large suburban high school in the Midwestern region of the United States. It employed a single-case exploratory design approach to learn about the experience of administrators, teachers, students, and parents. Using Zimmerman's Self-Regulated Learning (SRL) Theory as a guiding framework, this study explored surveys, face-to-face observation data, interview transcriptions, and focus group transcriptions to learn about different stakeholders' experiences and their observations about student readiness for blended learning. As a result, the data suggested three major themes, namely how blended learning initiatives can promote autonomy and self-regulation, encourage inquiry and build relationship, and ultimately help students feel ready for college.

Keywords: self-regulated learning, blended learning, K-12 education, case study research

- Yeboah, A. K., and Smith, P., (2016), 'Relationships Between Minority Students Online Learning Experiences and Academic Performance', *Online Learning Journal*, 20(4)

- The study investigated the relationship between minority students' use of technology, social media, the number of online courses, program of study, satisfaction, and academic performance. Participants in the study were a diverse student body regarding age, gender, and educational level, and functioned at both undergraduate and graduate levels. Analysis of variance (ANOVA) and Chi-square tests were used to find the relationship between participants' online learning experiences and academic performance. Results showed that satisfaction and use of social media had no relationship with the academic performance of participants. However, a relationship existed between the use of technology, the number of courses in online, programme of study, and academic performance. Categories that emerged from the open-ended questions were flexibility and time convenience, self-confidence, lack of support, self-regulated learning skills, and language and linguistic differences. The authors concluded that varying factors such as cultural, language, personal, and efficacy skills facilitated the academic performance of minority students in an online learning environment. This study reiterates the importance of establishing multicultural presence in an online course and suggests best pedagogical methods for teaching minority students in an online course.

Keywords: Minority students, satisfaction, social media, use of technology, academic performance, self-regulated learning, and self-confidence

- Anderson, S., Hsu, Y-C., and Kinney, J., (2016), 'Using Importance-Performance Analysis to Guide Instructional Design of Experiential Learning Activities', *Online Learning Journal*, 20(4)

- Designing experiential learning activities requires an instructor to think about what they want the students to learn. Using importance-performance analysis in an online introduction to criminology course. There is limited research on experiential learning in online courses as well as empirical data to assist with the instructional design of the experiential learning activities. The primary goal of this article is to demonstrate the use of importance-performance analysis to guide the instructional design of experiential learning activities.

Keywords: importance-performance analysis, distance education, experiential learning, online

- Knapke, J., Haynes, E., Breen, J., [et al.] (2016), 'Evaluation of Online Graduate Epidemiology Instruction and Student Outcomes', *Online Learning Journal*, 20(4)

- In the last two decades, online learning has transformed the field of higher education. Also during this time, institutions of higher education have seen increases in their adult learner populations. The flexibility and accessibility of an online education model is often particularly appealing to adult learners, who bring unique needs, expectations, and learning styles to their education experiences. Using Kolb's Learning Style Inventory and Knowles' and andragogy model as theoretical frameworks, this study evaluates an online graduate course in epidemiology in terms of the demographics, learning styles, satisfaction, and achievement of students.

Keywords: learning styles, andragogy, graduate education, adult learning, distance learning, epidemiology, web-based learning, student outcomes, student satisfaction

- Bali, M., Caines, A., DeWaard, H., [et al.] (2016), 'Ethos and Practice of a Connected Learning Movement: Interpreting Virtually Connecting Through Alignment with Theory and Survey Results', *Online Learning Journals*, 20(4)

- Virtually Connecting (VC) is a connected learning volunteer movement that enlivens virtual conference experiences by partnering those that are at the conference with virtual participants that cannot attend. In looking to articulate the ethos and intentions of VC, a manifesto was developed by a group of core members and presented at the Digital Learning Research Network in 2015. This paper connects the group's ethos, as defined in this manifesto, to various learning theories including Connectivism, connected learning, and the practice of online communities. The paper reports on both quantitative and qualitative results from a survey sent to members of the community over February and March of 2016, as well as some information obtained from blogs and other forms of social media, and ties these results to the manifesto items. This alignment of theory and participant feedback shows continuity between the stated ethos of the community and the impressions of those living the volunteer experience.

Source: *Online Learning Journal* [online], **Volume 20, No. 4, December 2016**. Available at <http://onlinelearningconsortium.org/read/online-learning-journal/> [accessed 21 December 2016] Online Learning Consortium (OLC)

Related Link:

MERLOT – Multimedia Educational Resource for Learning and Online Teaching [online] and further information available at: <https://www.merlot.org/merlot/index.htm> [accessed 21 December 2016]. **JOLT**, MERLOT's Journal for **Online Learning and Teaching** [online] and available at: <http://jolt.merlot.org/index.html> [accessed 21 December 2016]

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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 4 January 2017]. **N.B.** New website launched!

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

- De los Arcos, B., Farrow, R., Weller, M. & McAndrew, P., (2016). Personalising learning through adaptation: Evidence from a global survey of K-12 teachers’ perceptions of their use of open educational resources. *Journal of Online Learning Research*, 2(1), 23-40. Association for the Advancement of Computing in Education (AACE). Accessible via the **LearnTechLib** (The Learning and Technology Library) [online] and @ <http://www.editlib.org/p/151664> [accessed 4 January 2017]
- Farrow, R., de los Arcos, B., & Weller, M., (2015). Who are the Open Learners? A Comparative Study Profiling Non-Formal Users of Open Educational Resources. *European Journal of Open, Distance and E-learning*, 18(2) [online] and available at <http://oro.open.ac.uk/44962/> [accessed 4 January 2017]
- Pitt, R. *Mainstreaming Open Textbooks: Educator Perspectives on the Impact of OpenStax College open textbooks (2015)* The International Review of Research in Open and Distributed Learning (IRRODL) 16(4): 133-155 [online] and available at <http://www.irrodl.org/index.php/irrodl/article/view/2381> [accessed 4 January 2017]
- Deimann, M., & Farrow, R. (2013). Rethinking OER and their use: Open Education as Building. *International Review of Online and Distance Learning* 14(3) [online] and available at <http://www.irrodl.org/index.php/irrodl/article/view/1370/2542> [accessed 4 January 2017].
- McAndrew, Patrick and Scanlon, Eileen (2013). Open learning at a distance: lessons for struggling MOOCs. *Science*, 342 pp. 1450-1451 [online] and available at <http://oro.open.ac.uk/39736/> [accessed 4 January 2017]
- McAndrew, P. & Farrow, R. (2013). “Open Education Research: From the Practical to the Theoretical” in McGreal, R., Kinuthia, W. and Marshall, S. (eds) *Open Educational Resources: Innovation, Research and Practice*. Commonwealth of Learning and Athabasca University, Vancouver. pp.65-78 [online] and available at <https://oerknowledgecloud.org/content/open-education-research-practical-theoretical> [accessed 4 January 2017].
- De Liddo, A., Buckingham Shum, S., McAndrew, P., & Farrow, R. (2012). ‘The Open Education Evidence Hub: A Collective Intelligence Tool for Evidence Based Policy’. In Okada, A. (ed.) *Open Educational Resources and Social Networks: Co-Learning and Professional Development*. London: Scholio Educational Research & Publishing [online] and available at http://oer.kmi.open.ac.uk/?page_id=1201#.V6Nl_esrJhE [accessed 4 January 2017].

Open Educational Resources (OER) Research Hub [online]. Further information is available at <http://oerhub.net/> [accessed 4 January 2017].

Related links:

Open University (OU) UK [online] and available at <http://www.open.ac.uk/> [accessed 4 January 2017]

Open University (OU) UK, Institute of Education Technology [online] and available at <http://www.open.ac.uk/iet/main/> [accessed 4 January 2017]

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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 04/01/2017):

- 9,459 journals
- 6,647 journals searchable at article level
- 128 countries
- 2,405,037 articles

The Directory of Open Access Journals (DOAJ) <https://doaj.org/> [accessed 4 January 2017]

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e-Journal Review cont.



Source: office.microsoft.com

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.

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.

Taylor and Francis, *Construction Management and Economics* [online]. Available at <http://www.tandfonline.com/toc/rcme20/current> [accessed 4 January 2017]

Example articles/papers in the most recent issue include:

- Risk-chasing behaviour in on-site construction decisions

Fiolet, J-C, Haas, C., and Hipel, K. (2016) [Risk-chasing behaviour in on-site construction decisions](#), *Construction Management and Economics* Vol. 34, Iss. 12, 2016, London: Taylor and Francis Online, Informa UK Limited, Pages 845-858

- Developing and evaluating a framework of total constraint management for improving workflow in liquefied natural gas construction

Wang, J., Shou, W., Wang, X., and Wu, P., (2016), [Developing and evaluating a framework of total constraint management for improving workflow in liquefied natural gas construction](#), *Construction Management and Economics* Vol. 34, Iss. 12, 2016, London: Taylor and Francis Online, Informa UK Limited, Pages 859-874

- Schedule health assessment of construction projects

Bragadin, M. A., and Kähkönen, K., (2016), [Schedule health assessment of construction projects](#), *Construction Management and Economics* Vol. 34, Iss. 12, 2016, London: Taylor and Francis Online, Informa UK Limited, Pages 875-897

- Implementing commercial information exchange: a construction supply chain case study

Pala, M., Edum-Fotwe, F., Ruikar, K., Peters, C., and Doughty, N., (2016), [Implementing commercial information exchange: a construction supply chain case study](#), *Construction Management and Economics* Vol. 34, Iss. 12, 2016, London: Taylor and Francis Online, Informa UK Limited, p898-918

- Estimating the number of new and repeated bidders in construction auctions

Ballesteros-Pérez, P., and Skitmore, M., (2016), [Estimating the number of new and repeated bidders in construction auctions](#), *Construction Management and Economics* Vol. 34, Iss. 12, 2016, London: Taylor and Francis Online, Informa UK Limited, p919-934

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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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> [accessed 4 January 2017]

Example information/ research articles/papers in the most recent and **Special Issue: Overheating in buildings: lessons from research**

Editorial:

- Overheating in buildings: lessons from research

Lomas, K. J., and Porritt, S. M., (2017), [Overheating in buildings: lessons from research](#), *Building Research & Information* Vol. 45, Iss. 1-2, 2017, Taylor and Francis Online, Pages 1-18, London: Informa UK Limited

Research:

- Meta-analysis of indoor temperatures in new-build housing

McGill, G., Sharpe, T., Robertson, L., Gupta, R., Ian Mawditt, I., (2017), [Meta-analysis of indoor temperatures in new-build housing](#), *Building Research & Information* Vol. 45, Iss. 1-2, 2017, London: Taylor and Francis Online, Informa UK Limited, Pages 19-39

- Overheating in retrofitted flats: occupant practices, learning and interventions

Baborska-Narożny, M., Stevenson, F., and Grudzińska, M., (2017), [Overheating in retrofitted flats: occupant practices, learning and interventions](#), *Building Research & Information* Vol. 45, Iss. 1-2, 2017, London: Taylor and Francis Online, Informa UK Limited, Pages 40-59

- Exposure duration in overheating assessments: a retrofit modelling study

Victoria Lee, W. and Steemers, K. (2017), [Exposure duration in overheating assessments: a retrofit modelling study](#), *Building Research & Information* Vol. 45, Iss. 1-2, 2017, London: Taylor and Francis Online, Pages 60-82

- Overheating in care settings: magnitude, causes, preparedness and remedies

Gupta, R., Barnfield, L., and Gregg, M., (2017), [Overheating in care settings: magnitude, causes, preparedness and remedies](#), *Building Research & Information* Vol. 45, Iss. 1-2, 2017, London: Taylor and Francis Online, Informa UK Limited, Pages 83-101, London: Informa UK Limited

- Overheating in vulnerable and non-vulnerable households

Vellei, M, Ramallo-González, A. P., Coley, D., Lee, J., Gabe-Thomas, E., Lovett, T., and Natarajan, S., (2017), [Overheating in vulnerable and non-vulnerable households](#), *Building Research & Information* Vol. 45, Iss. 1-2, 2017, London: Taylor and Francis Online, Informa UK Limited, Pages 102-118

- Inhabitant actions and summer overheating risk in London dwellings

Mavrogianni, A., Pathan, A., Oikonomou, E., Biddulph, P., Symonds, P., and Davies, M., (2017), [Inhabitant actions and summer overheating risk in London dwellings](#), *Building Research & Information* Vol. 45, Iss. 1-2, 2017, London: Taylor and Francis Online, Informa UK Limited, Pages 119-142

- Overheating in Scotland: contributing factors in occupied homes

C. Morgan, J. A. Foster, A. Poston, and T. R. Sharpe (2017), [Overheating in Scotland: contributing factors in occupied homes](#), *Building Research & Information* Vol. 45, Iss. 1-2, 2017, London: Taylor and Francis Online, Informa UK Limited, Pages 143-156

- Overheating in Auckland homes: testing and interventions in full-scale and simulated houses

Birchmore, R., Davies, K., Etherington, P., Tait, R., and Pivac, A., (2017), [Overheating in Auckland homes: testing and interventions in full-scale and simulated houses](#), *Building Research & Information* Vol. 45, Iss. 1-2, 2017, London: Taylor and Francis Online, Informa UK Limited, Pages 157-175

- Combating overheating: mixed-mode conditioning for workplace comfort

Thomas, L.E., (2017), [Combating overheating: mixed-mode conditioning for workplace comfort](#), *Building Research & Information* Vol. 45, Iss. 1-2, 2017, London: Taylor and Francis Online, Informa UK Limited, Pages 176-194

- Overheating in English dwellings: comparing modelled and monitored large-scales datasets

Symonds, P., Taylor, J., Mavrogianni, A., Davies, M., Shrubsole, C., Hamilton, I., and Chalabi, Z., (2017), [Overheating in English dwellings: comparing modelled and monitored large-scale datasets](#), *Building Research & Information* Vol. 45, Iss. 1-2, 2017, London: Taylor and Francis Online, Informa UK Limited, Pages 195-208

- Thermal comfort of rural residents in a hot-humid area

Zhang, Z., Zhang, Y., and Jin, L., (2017), [Thermal comfort of rural residents in a hot-humid area](#), *Building Research & Information* Vol. 45, Iss. 1-2, 2017, London: Taylor and Francis Online, Informa UK Limited, Pages 209-221

- Comfort-related feedforward information: occupants' choice of cooling strategy and perceived comfort

Meinke, A., Hawighorst, M., Wagner, A., Trojan, J., and Schweiker, M., (2017), [Comfort-related feedforward information: occupants' choice of cooling strategy and perceived comfort](#), *Building Research & Information* Vol. 45, Iss. 1-2, 2017, London: Taylor and Francis Online, Informa UK Limited, Pages 222-238

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.

Taylor and Francis, *Journal of Property Research* [online]. Available at <http://www.tandfonline.com/toc/rjpr20/current> [accessed 4 January 2017]

Example articles/papers in the most recent include:

- Skyscrapers and the economy in Latin America

Garza, N., and Lizieri, C., (2016), [Skyscrapers and the economy in Latin America](#), *Journal Of Property Research* Vol. 33, Iss. 4, 2016, London: Taylor and Francis Online, Informa UK Limited, Pages 269-292

- A robust house price index using sparse and frugal data

Maguire, P., Miller, R., Moser, P., and Maguire, R., (2016), [A robust house price index using sparse and frugal data](#), *Journal Of Property Research* Vol. 33, Iss. 4, 2016, London: Taylor and Francis Online, Informa UK Limited, Pages 293-308

- Impact of quality-led design on real estate value: a spatiotemporal analysis of city centre apartments

Nase, I., Berry, J., and Adair, A. (2016), [Impact of quality-led design on real estate value: a spatiotemporal analysis of city centre apartments](#), *Journal Of Property Research* Vol. 33, Iss. 4, 2016, London: Taylor and Francis Online, Informa UK Limited, Pages 309-331

- Refining the real estate pricing model

Crosby, N., Jackson, C., and Orr, A., (2016), [Refining the real estate pricing model](#), *Journal Of Property Research* Vol. 33, Iss. 4, 2016, London: Taylor and Francis Online, Informa UK Limited, Pages 332-358

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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e-Journal Review Archive

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.

A	Accounting Education (JAI)	F	'Foresight', an international bi-monthly journal concerned with the study of the future
B	Building Research and Information	H	International Journal of Housing Markets and Analysis
	Business and Management in Higher Education (BMHE)	I	Internet Research
	Business Economics		Interactive Technology and Smart Education
	Journal of Economic Studies	L	Landlord and Tenant Review
C	Campus-Wide Information Systems		International Journal of Law and Management
	Construction Management & Economics		International Journal of Law in the Built Environment
	Construction Innovation: Information, Process, Management		International Journal of Law and Management
	Construction Law Journal and Construction Newsletter	M	Journal of Management and Sustainability
	Construction Management and Economics		Management Research Review
	Construction Newsletter		International Marketing Review
	Journal of Construction Research	O	Journal of Online Learning and Teaching (JOLT)
D	Development and Learning in Organisations		Open Praxis , a peer-reviewed open access scholarly journal focusing on research and innovation in open, distance and flexible education.
	International Journal of Disaster Resilience in the Built Environment		International Journal of Organisational Analysis
	Disaster Prevention and Management	P	Journal of Planning and Environmental Law
E	Oxford Bulletin of Economics and Statistics		Practice-based Learning
	Journal of Economic Education		Journal of Property Investment and Finance (Previously published as: Journal of Property Valuation and Investment)
	Journal of Economic Literature		Property Law Bulletin
	Education + Training		Property Management
	Journal for Education in the Built Environment , The		Journal of Property Research
	International Journal of Educational Management	Q	Quality Assurance in Education

	Energy, Sustainability and Society	R	Real Estate Economics
	Enhancing Learning in the Social Sciences (EliSS)		Journal of Real Estate Portfolio Management
	Engineering, Construction and Architectural Management		Journal of Real Estate Research
	Engineering Education		Reference Services Review
F	Facilities		Journal of Research in Interactive Marketing
	Journal of Facilities Management	S	Smart and Sustainable Built Environment
	Financial Accountability and Management		Structural Survey
	Journal of Financial Management of Property and Construction		Sustainability
	Financial Practice and Education		Journal of Sustainable Development
Special issues:			
Property and Construction		Online Learning 01/14	
International Focus 07/13		Higher Education Academy Online 03/14	
Higher Education 08/13		Environment 03/14	
Law 09/13		Open Access and Online Learning 04/14	
Research 10/13		Business and Management Education in Higher Education 05/14	
Economics 11/13		Finance, Financial Management and Accounting 06/14	
Sustainability 12/13		Research and Innovation in open, distance and flexible education 07/14, 03/15	

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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e-Book Review

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 their attention to the 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.

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. Construction Law Review 2015 e-Book
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

Please note: The first book review and fifth book 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 Dawson Books, 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.

1. The Battle for Open: How openness won and why it doesn't feel like victory.

Weller, M. (2014). *The Battle for Open: How openness won and why it doesn't feel like victory* [e-book]. London: Ubiquity Press. Available at <http://dx.doi.org/10.5334/bam> [accessed 4 January 2017]

Dominguez, D. (2015). Book review of The Battle for Open. *Open Praxis*, 7(2), 191-193. doi:10.5944/openpraxis.7.2.208

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 -

Miller, C., & Doering, A., (Eds.). (2014). *The new landscape of mobile learning: Redesigning education in an app-based world* (1st ed.). New York, NY : Routledge

Hetrick, T. (2015). Book review of The new landscape of mobile learning: Redesigning education in an app-based world. *Open Praxis*, 7(1), 113-115. doi:10.5944/openpraxis.7.1.178. ISSN: 2304-070X, International Council for Open and Distance Education (ICDE)

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. Construction Law Review 2015 e-Book -

Please enjoy reading the complimentary link to the Chartered Institution of Civil Engineering Surveyors (ICES) *Construction Law Review* digital e-Book 2015.

The annual supplement to the *Civil Engineering Surveyor* Journal contains Legal & contractual articles from some of the most senior professionals in the field of construction law and contracts along with a directory of professionals Profiles.

Some of the articles incl.

- Supporting construction law – Richard Bailey, Society of Construction Law,
- Trends in global construction disputes – Gary Kitt and Mike Allen, ARCADIS,
- Managing change on construction and engineering projects – Mark Castell, DIALES,
- Employer's claims and engineer's determinations under FIDIC – Jonathan Hosie, Mayor Brown International, and more.

Gain access and further information on the 2015 issue of the Chartered Institution of Civil Engineering Surveyors (ICES) *Construction Law Review, 2015* [online] and available @ <http://mag.digitalpc.co.uk/fvx/ces/15clr/index.html> [accessed 23 November 2016]

4. Studying at a Distance -

By Talbot, C., (01/08/2010), Publisher: Open University Press

e-ISBN-13: 9780335238057

This essential guide provides practical help and support for those who have not previously studied at a distance and is ideal for students returning to study after a break. It covers fundamental issues such as motivation, goal setting, time management and coping strategies. Additional coverage in this 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

e-ISBN-13: 9780203078952

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 23 November 2016]

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 4 January 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 4 January 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 04/01/2017):

- 5602 Academic peer-reviewed books from
- 167 publishers

The Directory of Open Access Books (DOAB) <http://www.doabooks.org/doab> [accessed 4 January 2017]

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Latest book and journal titles

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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 [accessed 4 January 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/> [accessed 4 January 2017]

Wiley Open Access [online]. Further information is available at <http://olabout.wiley.com/WileyCDA/Section/id-406071.html> [accessed 4 January 2017]

Business and Management [online]. Further information is available at - <http://onlinelibrary.wiley.com/subject/code/000028> [accessed 4 January 2017]

Economics [online]. Further information is available at - <http://onlinelibrary.wiley.com/subject/code/000047> [accessed 4 January 2017]

Law [online]. Further information is available at - <http://onlinelibrary.wiley.com/subject/code/000076> [accessed 4 January 2017]

Civil Engineering and Construction [online]. Further information is available at - <http://onlinelibrary.wiley.com/subject/code/000034> [accessed 4 January 2017]

LATEST info: **Wiley Construction and Civil Engineering Update** [online]. Further information is available at <http://app.news.wiley.com/e/es?s=1133198723&e=236292&elq=0e75d940e56f44008e5a9c13214d087c> [accessed 4 January 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 [accessed 4 January 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. www.tandfonline.com/page/openaccess [accessed 4 January 2017]

Latest info: **Property and Real Estate** catalogue [online] and available at <https://www.routledge.com/collections/4812> [accessed 4 January 2017]

Other subject categories incl.

Architecture - <http://www.routledge.com/architecture/>

Building and Construction - <http://www.routledge.com/buildingconstruction/>

Built Environment - <http://www.routledge.com/builtenvironment/>

Civil Engineering - <http://www.routledge.com/civilengineering/>

Planning and Urban Design - <http://www.routledge.com/planning/>

[websites correct as at 21 November 2016]

The Routledge Sustainability Hub - 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 4 January 2017]

'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 <https://www.elsevier.com/books/subjects/built-environment> [accessed 4 January 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 <http://www.palgrave.com/> [accessed 21 November 2016]

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© 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”.

Source: Salmon, Prof. G., (2013), *E-tivities*, London, Routledge.

[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 4 January 2017]

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[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’**

www.cla.co.uk/titlesearch [accessed 4 January 2017]

CLA Higher Education, Check Permissions @ <http://he.cla.co.uk/check-permissions/> [accessed 4 January 2017]

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Further guidance on Copyright and Digital Copyright incl.

- What is copyright?
- 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 last?
- 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/copyright_information/related_organisations/ and www.cla.co.uk/copyright_information/ [accessed 4 January 2017]

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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 4 January 2017]

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Legal 101 – Know your copyrights from wrongs

Copyright is an issue rarely discussed in construction and development projects, but one that can have far-reaching implications if the relevant permissions are not properly put in place. A Copyright Owner has the right to prevent others from carrying out numerous acts, including copying, adapting, or issuing copies to the public.

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.

Source: Wheeler, P., partner, Collyer Bristow, March 2015, RICS MODUS, *Legal 101 – Know your copyrights from wrongs*, p47.

Royal Institution of Chartered Surveyors (RICS), *Modus*, March 2015 – The Africa issue [online], RICS, Knowledge, Journals. Available at: <http://www.rics.org/uk/news/journals/modus/the-africa-issue1/> [accessed 4 January 2017]

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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 4 January 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/>

Health and Safety in Construction - <http://www.hse.gov.uk/pubns/books/hsg150.htm>

HSE Publications: Free Leaflets – Construction <http://www.hse.gov.uk/pubns/conindex.htm>

Construction Design and Management (CDM) - <http://www.hse.gov.uk/construction/cdm.htm>

Statistics – Industries <http://www.hse.gov.uk/STATISTICS/industry/index.htm>

Statistics - Construction Industry <http://www.hse.gov.uk/STATISTICS/industry/construction/index.htm>

Fatal injury statistics, summary for 2012/13 <http://www.hse.gov.uk/statistics/fatals.htm>

Latest quarterly fatal injury figures for 2014/15 <http://www.hse.gov.uk/statistics/fatalquarterly.htm>

[N.B. Websites accessed 4 January 2017]. [Back to top](#)

2. British Council of Shopping Centres (BCSC) is changing and is now ...

Revo – Retail. Property. Community.

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 establish Revo as the go-to organization for authoritative commentary and insight on industry and political issues. Information contained within incl. Latest research and quarterly retail briefings, Industry reports, Guidance notes, Opinion and Trend Bites.

Revo Research and Education [online] and available at

https://www.revocommunity.org/research_education_2/research_education [accessed 17 November 2016]

Within the Revo 'Research and Education section' of their website there are a number of useful pieces of further information and UCEM promotion incl.

- Revo/UCEM SCM Diploma – The 'Must Have' Qualification ☺
- Educational Articles incl. *Modern Building Surveying Methods* by Martin Penney, Technics Group [11/07/2011],
- Educational Presentations, incl. Virtual Study Tours, Customer Trends, and further
- Learning Resources

Source: British Council of Shopping Centres (BCSC), now **Revo Research and Education** [online]. Available at: https://www.revocommunity.org/research_education_2/research_education [accessed 4 January 2017]

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3. **The National Building Information Modelling (BIM) Library** -

Source: NBS (2016), *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 4 January 2017] –

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 (2016),

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 4 January 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> [accessed 4 January 2017]

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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/> [accessed 26 October 2016] 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/> [accessed 4 January 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/cgiirsi.exe/0/0/0/60/69/X> [accessed 4 January 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> [accessed 4 January 2017]

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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 Public Affairs; Ambassadors; Magazine; CIOB Library; Special Interest; and Research.

Their archive contains older 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.

Chartered Institute of Building (CIOB), 2016, *Insight* [online]. Available at: <https://www.ciob.org/insight> [accessed 4 January 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.

Further information and to search upon the **Inclusive Design Hub**, please visit **The Design Council** [online]. Available at www.designcouncil.org.uk [accessed 17 November 2016] and select **Projects** and **Inclusive Design Hub for the Built Environment** [online]. Available at <http://www.designcouncil.org.uk/projects/inclusive-design-hub-built-environment> [accessed 4 January 2017] and click on 'Search the hub'

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/> 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 4 January 2017]
- **Case Studies** [online] and available @ <https://www.bre.co.uk/podpage.jsp?id=1744> [accessed 4 January 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 4 January 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; • IDEAL EPBD – Energy Performance of Buildings Directive; • 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 4 January 2017]
- **Building4Change** – The online magazine from the BRE Trust [online] and available @ <https://www.bre.co.uk/page.jsp?id=3168> [accessed 4 January 2017]
- **Sustainability** [online] and available @ <https://www.bre.co.uk/page.jsp?id=1766> [accessed 4 January 2017]
- **Research and Innovation** [online] and available @ <https://www.bre.co.uk/page.jsp?id=1849> [accessed 4 January 2017]
- **BRE Services A–Z** [online] and available @ <https://www.bre.co.uk/atoz.jsp> [accessed 4 January 2017]

Building Research Establishment (BRE) [online] and available @ <https://www.bre.co.uk/index.jsp> [accessed 4 January 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/> [accessed 4 January 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 [accessed 26 October 2016]

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/> [accessed 4 January 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 4 January 2017]

As of January, 2017, a search of 'construction' on the internet produces over **1,700,000,000 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.

You have access to  **Emerald eJournals** [Click here](#) to start searching the database **NOW**

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 4 January 2017]

and click on ‘Access your VLE’ & visit the ‘e-Library’

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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 straight forward 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

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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 schoolchildren 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>, pass on the link to those who can use it – and also provide feedback.

Ward, D., 17 September 2015, Constructing Excellence website [online]. Further information is available at <http://constructingexcellence.org.uk/new-careers-website-launched-goconstruct-org-2/> [accessed 4 January 2017]

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 4 January 2017] [#ElizabethLine](#)

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[Surveying 2016 – RICS Career Guide - Universities](#): Your career in land, property and construction

Surveying 2016 is the annual careers guide from RICS aimed at those interested in learning more about careers in land, property and construction.

Highlights include case studies that reveal what it's like to work as a chartered surveyor, features on iconic built environment projects, essential information on the APC and profiles of newly qualified members.

Inside you will also find showcases from Savills, Mace, Aecom, Jones Lang LaSalle to name a few, as well as many educational institutions such as **UCEM**, UCI and Oxford Brookes who offer a range of accredited courses.

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:

Royal Institution of Chartered Surveyors (RICS), 2016, *Surveying 2016 – RICS Career Guide: You career in land, property and construction* [online]. Available at: <http://www.rics.org/uk/the-profession/surveying-2016-careers-guide/> [accessed 4 January 2017]

RICS Careers guide - schools

RICS's schools careers guide is a perfect introduction into careers in the built environment and why surveying could be an option.

Royal Institution of Chartered Surveyors (RICS), 2016, *Careers guide – schools* [online]. Available at <http://www.rics.org/uk/the-profession/surveying-2016-careers-guide/> [accessed 4 January 2017]

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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

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Useful web links

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[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 13 December 2016] 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 13 December 2016]

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BAILLI Case Law Search (British and Irish Legal Information Institute) [online]. Further information available at http://www.bailii.org/form/search_cases.html [accessed 13 December 2016]

BBC Education [online]. Further information available at <http://www.bbc.co.uk/news/education/> [accessed 13 December 2016]

BBC Search [online]. Further information available at <http://www.bbc.co.uk/search/> [accessed 13 December 2016]

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 13 December 2016]

BCSC Education [online]. Further information available at https://www.revocommunity.org/research_education_2/education [accessed 13 December 2016]

BCSC Research [online]. Further information available at https://www.revocommunity.org/research_education_2/research_education [accessed 13 December 2016]

BCSC Research + Education Document listing [online] and available at <https://www.revocommunity.org/documents/list> [accessed 13 December 2016]

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 13 December 2016]

BIFM, FM World (Digital Magazine of the BIFM) **Resources** [online]. Further information available at <http://www.fm-world.co.uk/resources/> [accessed 13 December 2016] and <http://www.bifm.org.uk/bifm/knowledge/resources/fmworld> [accessed 13 December 2016]

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 13 December 2016]

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 13 December 2016]

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 13 December 2016]

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 13 December 2016]

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 13 December 2016]

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 13 December 2016]

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 13 December 2016]

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 13 December 2016]

Builder and engineer [online]. Available at <http://www.builderandengineer.co.uk/> [accessed 13 December 2016] – 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 13 December 2016]

Building talks [online]. Available at www.buildingtalk.com [accessed 13 December 2016] *Building Talks* is an email newsletter for Architects, Civil Engineers and Building Services Contractors.

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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 13 December 2016]

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 13 December 2016]

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 13 December 2016]

CBI Construction Section [online]. Available at <http://www.cbi.org.uk/business-issues/construction/> [accessed 13 December 2016]

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 13 December 2016]

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 13 December 2016] 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 17 November 2016]

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 13 December 2016]

CIOB Insight incl. Library and Information Services [online]. Available at <http://www.ciob.org.uk/library> [accessed 13 December 2016]

CIOB – Construction Manager [online]. Available at <http://www.constructionmanagermagazine.com/> [accessed 13 December 2016]

CIOB – Global Construction Review [online]. Available at <http://www.globalconreview.com/> [accessed 13 December 2016]

CIOB – Policy and Public Affairs portal [online]. Available at <http://policy.ciob.org/> [accessed 13 December 2016]

CIRIA – The Construction Industry Research and Information Association and CIRIA Resources [online]. Further information is available at <http://www.ciria.org/default.aspx> [accessed 13 December 2016] and CIRIA Resources [online].

Cities / buildings images database [online]. Available at www.washington.edu/ark2 [accessed 13 December 2016] 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 the single organisation charged with driving the change agenda in construction. Resources include publications, tools and newsletter [online]. Available at <http://www.constructingexcellence.org.uk/> [accessed 13 December 2016]

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 13 December 2016].

Construction News [online]. Available at www.cnplus.co.uk [accessed 13 December 2016]

Construction Products Association 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 13 December 2016]

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 13 December 2016].

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 13 December 2016]

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 13 December 2016]

COTAC Digital Bibliography [online]. Available at http://www.cotac.org.uk/digital_bib/ [accessed 13 December 2016]

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 13 December 2016]

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 13 December 2016]. **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 13 December 2016]

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/> [accessed 13 December 2016].

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> [accessed 13 December 2016]

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.cpw.com/> [accessed 13 December 2016]

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The **Design Council** champions great design that improves lives and makes things better [online] and available @ <http://www.designcouncil.org.uk/> [accessed 13 December 2016]. See also **Inclusive Design Hub for the Built Environment** (a project of The Design Council) listed below.

Designing Buildings Wiki [online] and available at <http://www.designingbuildings.co.uk/wiki/Home> [accessed 13 December 2016] - an industry-wide, cross-discipline forum for finding and sharing information.

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> [accessed 13 December 2016]

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/> [accessed 13 December 2016]

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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 [accessed 13 December 2016]

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/> [accessed 13 December 2016]

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/> [accessed 13 December 2016]. **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> [accessed 13 December 2016]

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 13 December 2016]. **ERES Digital Library** [online] and available at <http://eres.architexturez.net/> [accessed 13 December 2016]

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Great Buildings [Online]. Available at www.greatbuildings.com [accessed 17 November 2016] provides a database of buildings around the world and across all historic periods. You can search the database by building names, place or architect name. It provides access to 3D models, photographic images and architectural drawings.

Glenigan [online]. Available at <https://www.glenigan.com/> [accessed 13 December 2016] provides UK construction project sales leads, market analysis, forecasting, and company intelligence.

The Green Construction Board [online]. Further information is available at <http://www.greenconstructionboard.org/> [accessed 13 December 2016] – 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, sustainably, 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 13 December 2016]

The Guardian, Higher Education network [online]. Available at <http://www.guardian.co.uk/higher-education-network> [accessed 13 December 2016]

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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 13 December 2016] and **HSE – Health & Safety in the construction industry** [online] is available @ <http://www.hse.gov.uk/construction/> [accessed 13 December 2016]

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 13 December 2016].

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 13 December 2016]

Heritage Alliance’s Heritage Update E-Bulletin [online]. Available at <http://www.theheritagealliance.org.uk/heritage-update> [accessed 13 December 2016]

Heritage Update: the online edition of the fortnightly Heritage Alliance’s Heritage Update e-bulletin [online] and available at <http://www.theheritagealliance.org.uk/update/> [accessed 13 December 2016]

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 13 December 2016]

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 13 December 2016] and **HEA Knowledge HUB** [online] and available at <https://www.heacademy.ac.uk/hub> [accessed 13 December 2016]

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 13 December 2016]

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 13 December 2016]

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 13 December 2016]

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 13 December 2016]

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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 13 December 2016]

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 13 December 2016]

ICE Virtual Library [online]. Available at www.icevirtuallibrary.com [accessed 13 December 2016] 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 13 December 2016]

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 13 December 2016]

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 13 December 2016]

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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 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 13 December 2016]. **Note:** See MERLOT below.

JournalTOCs is the largest, free collection of scholarly journal Title of Contents (TOCs) [online]. Available at <http://www.journaltoocs.ac.uk/index.php> [accessed 13 December 2016]

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 13 December 2016]

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 @ <http://www.jisc-content.ac.uk/> [accessed 13 December 2016]. **Note:** The JISC Content portal closed on 1 July 2016, however links are provided to Archives Hub and Digital Resources from this link.

JORUM - the place where you will find free open educational sources produced by the UK Further and Higher Education community @ <http://www.jorum.ac.uk/> [accessed 13 December 2016]

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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 13 December 2016]. CeBE's Virtual Site Gallery contains construction details, case studies, site photographs, and plant details @ www.leedsmet.ac.uk/teaching/vsite/gallery/ [accessed 13 December 2016]

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 13 December 2016]

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 13 December 2016]

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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 13 December 2016] developed and provided free access to MERLOT at www.merlot.org [accessed 13 December 2016]. 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 13 December 2016]. [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 \(JOLT\).](#)

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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 13 December 2016], NBS homepage is available at <https://www.thenbs.com/> [accessed 13 December 2016], and NBS Knowledge [online] is available at <https://www.thenbs.com/knowledge> [accessed 13 December 2016]

National Skills Academy (NSA) for Construction – The NSA for Construction is a project-based training concept that is tailored to helping clients and contractors to get the right skills where they need them – on site [online]. Available at <http://www.cskills.org/nsacademy/> [accessed 13 December 2016]

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 13 December 2016]

National Trust's Land use & planning [online]. Available at <http://www.nationaltrust.org.uk/what-we-do/big-issues/land-use-and-planning/> [accessed 13 December 2016]

NCE [online]. Available at www.nce.co.uk [accessed 13 December 2016] is the official website of the **New Civil Engineer**, a weekly magazine published for the ICE.

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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 13 December 2016] 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 13 December 2016]

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 13 December 2016]

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 13 December 2016]

OLC's Online Learning – the official journal of the Online Learning Consortium [online]. Available at <http://onlinelearningconsortium.org/read/> [accessed 13 December 2016]

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 innovation in open, distance and flexible education [online]. Available at <http://openpraxis.org/index.php/OpenPraxis/index> [accessed 13 December 2016]

Open University (OU) UK [online] and available at <http://www.open.ac.uk/> [accessed 13 December 2016]

Open University (OU) UK, Institute of Education Technology [online] and available at <http://www.open.ac.uk/iet/main/> [accessed 13 December 2016]

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].

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www.Parliament.co.uk, **Research briefings** produced by the House of Commons Library, the House of Lords Library and the Parliamentary Office of Science and Technology (POST). Parliament, Parliamentary business, Publications and records, Research briefings [online]. Further information is available at <http://researchbriefings.parliament.uk/> [accessed 13 December 2016]

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 13 December 2016]

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.pas.gov.uk/> [accessed 13 December 2016]

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 13 December 2016]

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 13 December 2016]

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.pponline.co.uk/> [accessed 13 December 2016]

Property Week – Commercial property news [online]. Available at <http://www.propertyweek.com/> [accessed 13 December 2016]

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Regeneration and Renewal – Planning magazine blog [online]. Available at <http://regen.net/home/> [accessed 13 December 2016]

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 13 December 2016]

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 13 December 2016]

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/cgiirsi.exe/0/0/0/60/69/X> [accessed 13 December 2016]

RICS 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> [accessed 13 December 2016]

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 13 December 2016]

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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 13 December 2016]

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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 13 December 2016]

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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 13 December 2016]

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 13 December 2016]

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 13 December 2016]

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 used 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 13 December 2016]

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 13 December 2016]

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 13 December 2016].

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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 13 December 2016]

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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 13 December 2016]

The web links provided were correct at time of compilation.

Disclaimer

This e-bulletin is intended to highlight news items and provide basic background information only. UCEM cannot accept responsibility for the content of external websites.

Please note: some web-links do not work on Internet Explorer and therefore you may need to use a PC with [Chrome](#), [Firefox](#) or other browsers.

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Student Central

If you have any questions or queries you should submit them through Student Central (access via the VLE and Student Services) rather than by email, or contact a member of the Student Advice Team on +44 (0) 118 921 4696.
