

3 Legs, 4 Questions and Future Building





Innovate UK is the UK's Innovation Agency

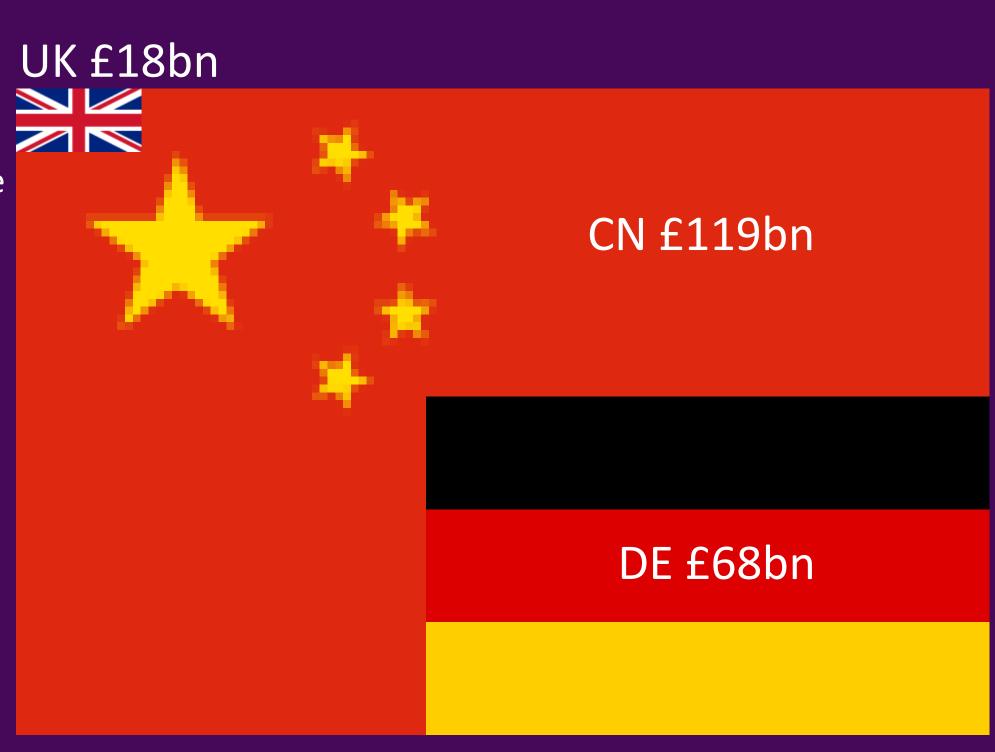
We fund, support and connect innovative businesses to accelerate sustainable economic growth



But why innovate?

UK is 1% of the global pop. with 4% of global wealth UK R&D spend is £18bn ~2% of our GDP. Think that's a lot?

China's R&D spend is about the size of the entire UK health budget. In 2011 China filled more patents than the US China's R&D spending is almost entirely focused on development and demonstration (95%). This provides a huge capability in refining technologies for the market and scaling up manufacturing





UK Construction Weaknesses

Poor Integration: "...fracture between the management of construction and its execution"

High Costs: "...driven by inefficient procurement and processes"

Low Levels of Innovation

Lack of Career Attraction

Cinema built 75cm out of line to be pulled down

Grant Prior | Thu 16th May | 7:30

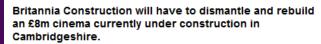












The Cineworld complex has been found to be 75cm out of place prompting complaints from local residents.

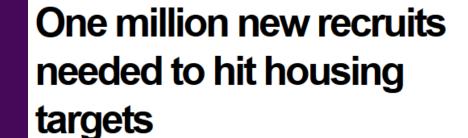
Britannia has blamed the design consultants for the mistake

Work has been under way on the Rowley Arts Centre site in St

Rebuilding work could cost up to £1m and will delay the completion date from September to January 2014.

Chris Goldsmith, from the developers Turnstone Estates told the BBC: "We have taken the unprecedented step of halting the existing work and having parts rebuilt to assuage any concerns that adjoining landowners may have.

"Although we are only talking about a few centimetres, we



Grant Prior | Fri 5th June | 7:15











Consultant EC Harris claims companies will need to recruit one million new workers by 2020 to meet Government house building targets.

The key trades in demand will be bricklayers, plasterers, scaffolders and roofers while quantity surveyors and architects are in shortest supply among the professions.

Site management will also need a massive boost in numbers to prevent "market failure - where too many firms chase too few resources - disrupting production on site and contributing to an inflationary wage spiral."

EC Harris experts believe that access to labour and money is more important than planning and land availability in determining how the housing crisis should be resolved.

The whitepaper People and money - fundamental to unlocking the housing crisis, focuses on the limits to current house building capacity.

Innovate UK

Technology Strategy Board





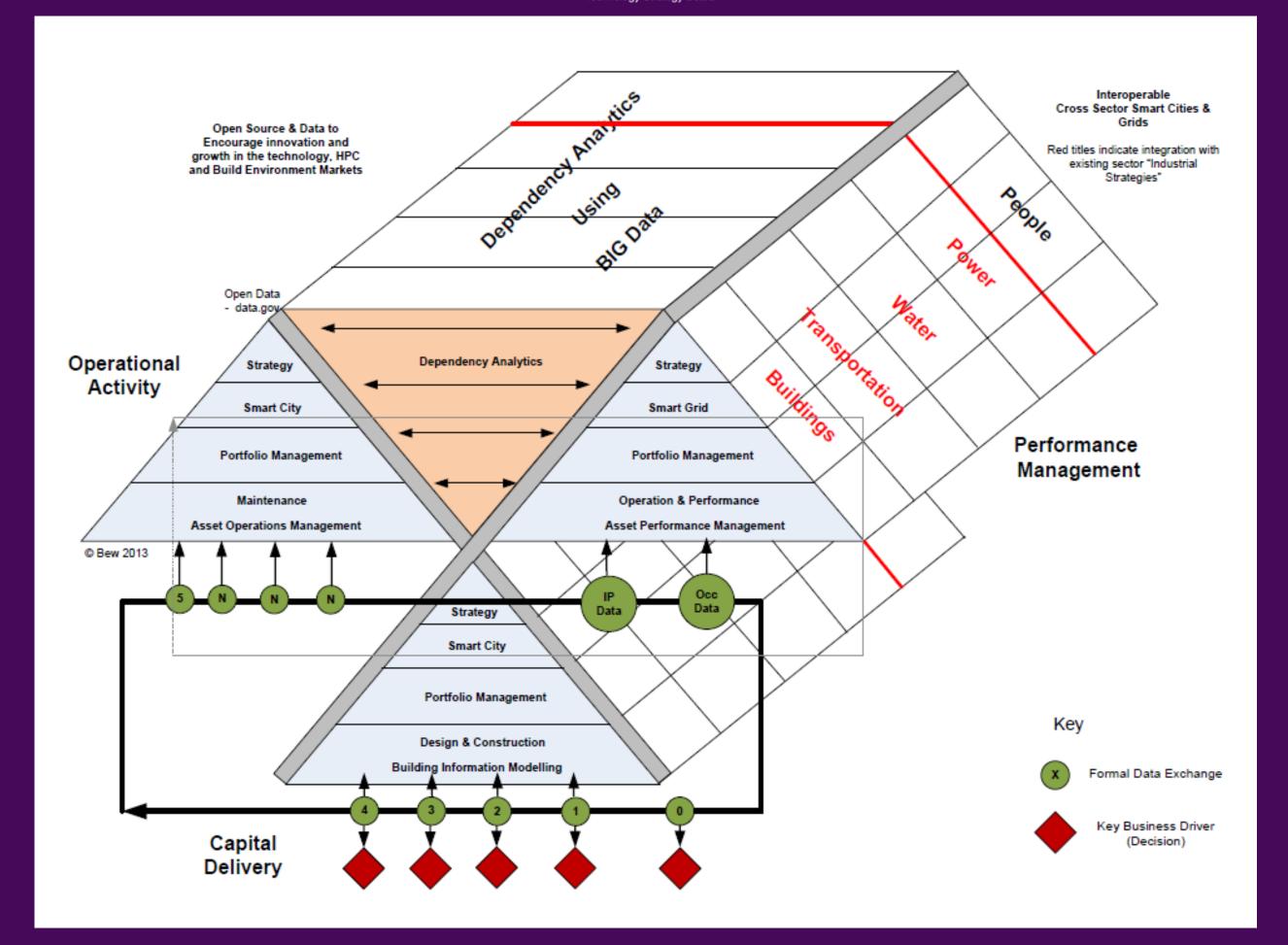
"We have world class capability in architecture, design and engineering and British companies are leading the way ... with the global construction sector forecast to grow by up to 70% by 2025"

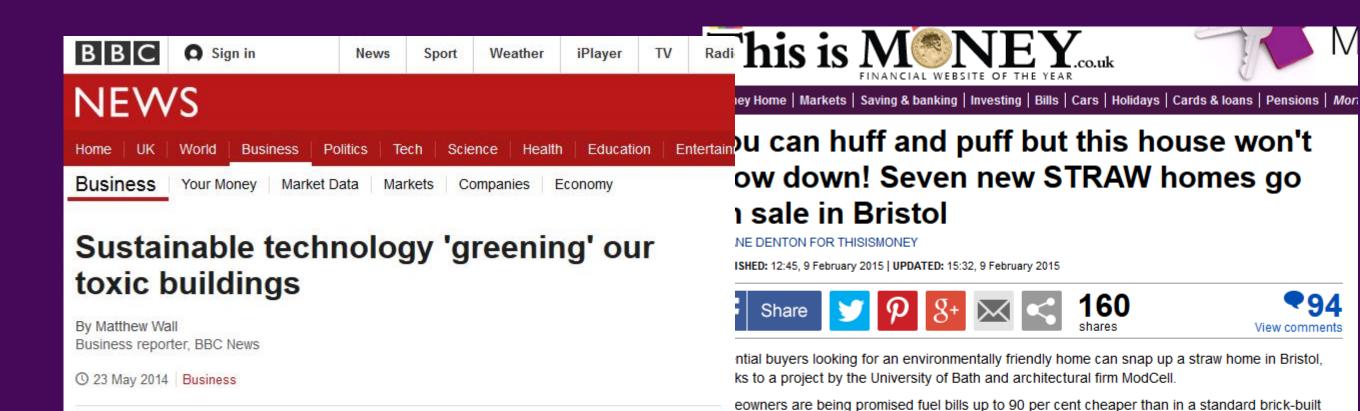
Dr Vince Cable

"The time has come for the construction sector to reform by seizing the opportunities offered by the <u>Digital Economy</u>...the demands on finite resources more challenging and the need to look overseas for growth and opportunity has never been more pressing."

Sir David Higgins –Chair HS2







UK startup Q-Bot triumphs at robotics extravaganza with its insulation-fitting robot

The robotics company has been founded by serial entrepreneur Tom Lipinski.









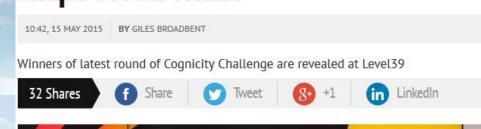




million tonnes of would-be waste straw going spare in the UK, it is not surprising that a

se and a purchase price below the average cost of a house in Bristol, which is currently

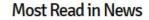
W housing development is currently underway in Cornwall for Smart city innovators win £50,000 and a chance to help shape Wood Wharf





SEaB Energy, winners of the Integrated Resource Management stream







Sir Richard Branson set to join 6





goo.gl/BgCQmK



So what have we delivered?

20 major competitions
580 projects
£118m funding to UK businesses
800 companies funded

Components and Materials, AIMC4, Retrofit for the Future, Design and Decision Tools, Energy Efficient Whitehall, User Centred design, Design for Future Climate, Ultra-Efficient Lighting, Smart Meters Smart Homes, Smart DC Home SIG, Building Performance Evaluation, Rethinking the Build Process, Invest in Innovative Refurb, Buildings Better Connected, Localised Energy Systems, EracoBuild, Scaling up Retrofit, Future Energy Management for Buildings, Digitising the Construction Sector, A Digital tool for BIM, Building Whole Life Performance, Supply Chain Collaboration in Construction

https://goo.gl/CEvZe6



What's next?

D4FC

BPE

BIM Toolkit





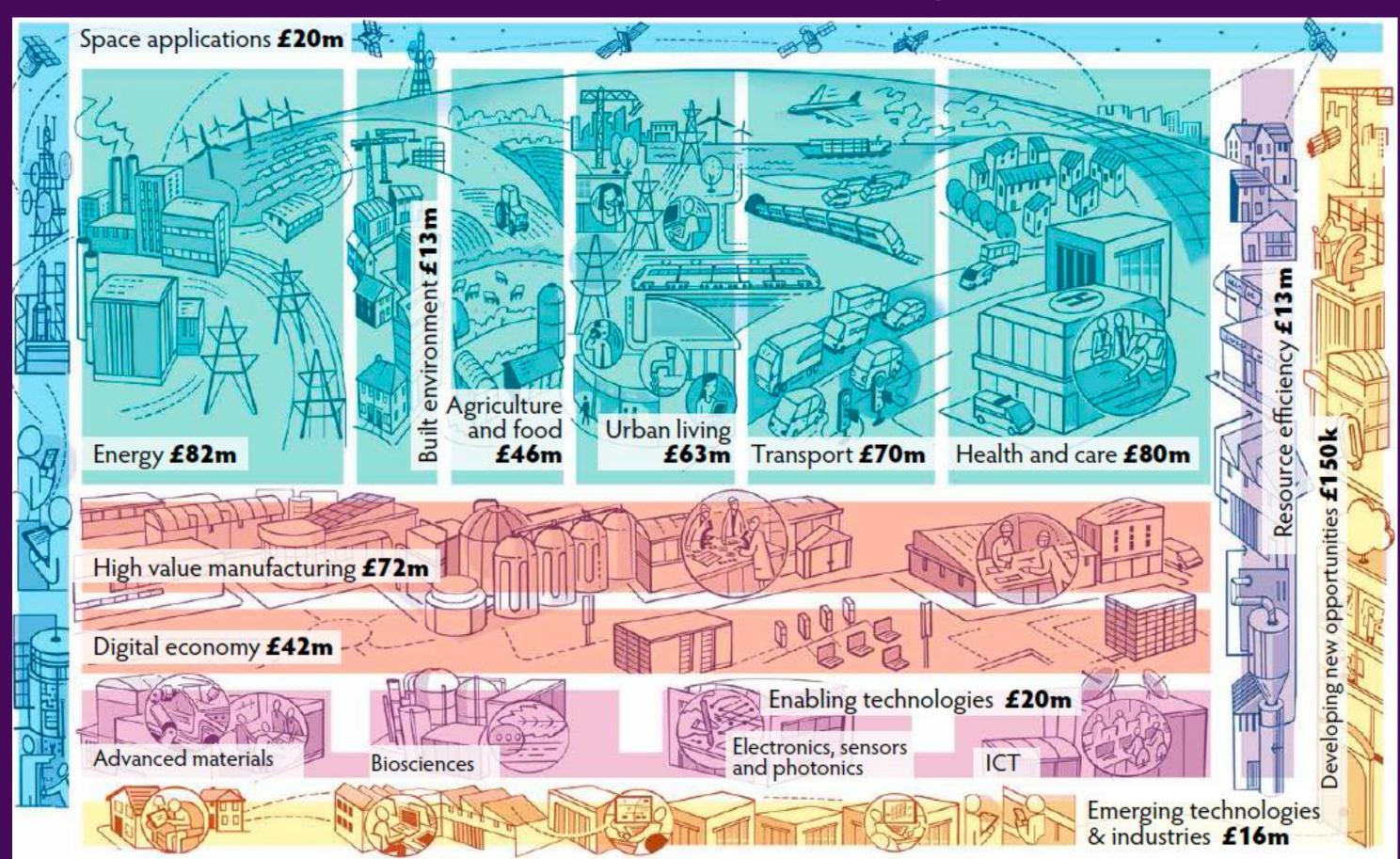


AEC Hackathor
16-18 July





Innovate UK on a Page





3 Legs...





Funding, Support





Networks, Opportunities

Facilities, Commercialisation, Exports



4 Questions...

1. Is there a big enough market?

2. Can the innovation be world leading?

3. Is it at the right stage of development?

4. Why should we use public money to help?



The Application Process



https://www.youtube.com/watch?v=S-rnSpIMiPc



Thank You!

@simonLIBP

www.linkedin.com/company/the-built-environment