Introduction to the Centre for Digital Built Britain

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A Short History: Digital Built Britain

2011
• Government Construction Strategy outlines BIM Mandate

2012
• BIM Task Group Formed
• First BIM L2 Standard released PAS:1192-2

2015
• Digital Built Britain Strategy Launched
• Suite of L2 Standards complete with PAS:1192-5

2016
• Government Construction Strategy:2016-2020 launched
• L2 BIM Mandate starts

2017
• Centre for Digital Built Britain announced at the University of Cambridge
What is a Digital Built Britain?
Using digital information to better design & build, and operate & integrate our built environment
Digital Built Britain – a shifting focus from using data to reduce the Capital Costs of built assets ....

Flow of information

Today’s focus on Capital Expenditure
... to using data to optimise Total Expenditure through-life....
... towards using data to optimise the services that are delivered depending upon the built environment ....
... to the ways that citizens use and interact with the data that enables quality of life in digital built Britain

Flow of

Consider the needs and wants of Citizens driving the specification, delivery, monitoring and management of Services

Consider the provision of Services that depend upon the built environment

Add Operating Expenditure to consider Total Expenditure

Today's focus on Capital Expenditure

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So we will consider the citizen, using integrated services, based on built assets, enabled by data.

- Consider the needs and wants of Citizens driving the specification, delivery, monitoring and management of Services.
- Consider the provision of Services that depend upon the built environment.
- Add Operating Expenditure to consider Total Expenditure.
- Today’s focus on Capital Expenditure.
Digital Built Britain – from data to better design & build of an asset ...
... to data to better operate services ...
... to data to integrate services for a better quality of life
Technical drivers towards a digital built Britain
Enablers of a digital built Britain

Technology alone is not enough to deliver change. The journey towards a digital built Britain will be enabled by:

- Education & training
- Industry, policy maker & academic engagement
- International export of skills, standards and technology
- Policy development
- Certifications, regulation and standards
- Case studies and demonstrators from research & industry
- Improved data governance and ethics
- Improved contract and procurement law
- Management and organisational change.
The Centre for Digital Built Britain’s Mission

To develop and demonstrate policy and practical insights that will enable the exploitation of new and emerging technologies, data and analytics to enhance the natural and built environment, thereby driving up commercial competitiveness and productivity, as well as citizen quality of life and well-being.
CDBB Governance

Strategic Advisory Board
Chaired by Prof. Lord Mair

Management Advisory Group

Prof. Andy Neely
Director

Dr. Jennifer Schooling
Director of Research Bridgehead

Alexandra Bolton
Deputy Director

Dr. Barry Blackwell

Alex Luck

Dr. Mark Bew

Dr. Ioannis Brilakis

Dr. Ajith Parlikad
CDBB’s programmes

- Design & Build
- Operate & Integrate
- Education & Training
- Security
- International Engagement
- Research
- Operations
Research Bridgehead

- The research bridgehead enables innovative research to become part of professional practice
- Funds multi-disciplinary, multi-institution research programmes and networks that bring together academic, policy makers and industry
- Provides the long term research agenda needed to deliver the ambitions of the Digital Built Britain programme
The Government should task the Centre for Digital Built Britain (CDBB) with the establishment of a digital framework for infrastructure data. A Digital Framework Task Group for infrastructure data should be established.

CDBB should collaborate with the Alan Turing Institute (ATI) and the UK Infrastructure Transitions Research Consortium (ITRC) in pioneering digital twin models with predictive capability in the UK.

Coordination of key players through the Digital Framework Task Group.
Questions?
Collaborate with CDBB

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