



Digitization of the built environment

15.00-16.15

Chair: Kieran Parkinson, BSI

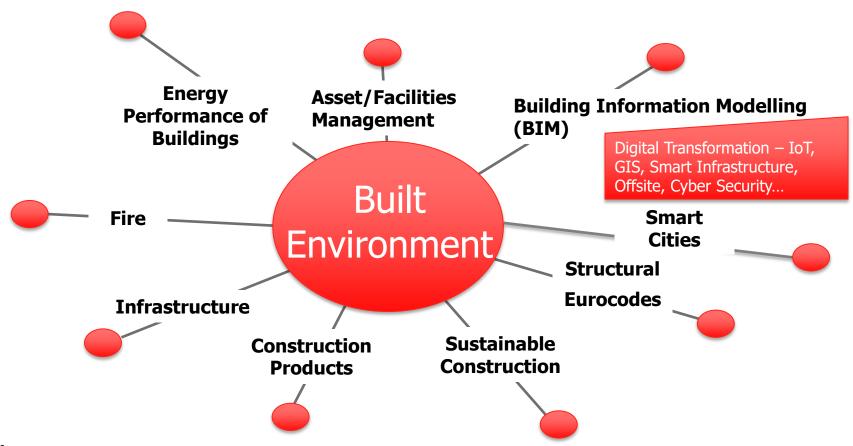
David Mudd, BSI Gavin Summerson, BSI Matt Crunden, Legrand





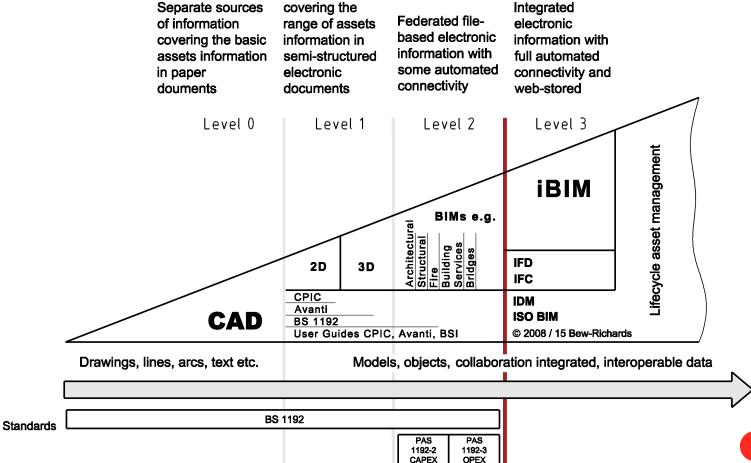


Standards in the Built Environment



BIM Maturity Model

bsi.



BS 1192-4

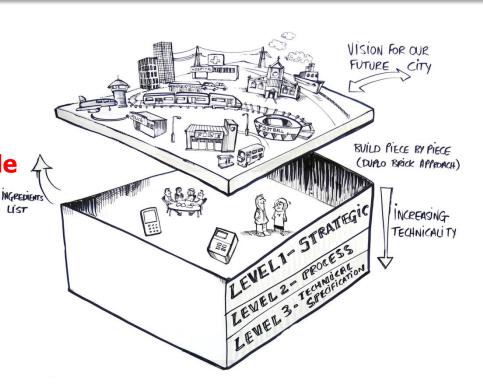
Separate sources of information

Standards for smart cities

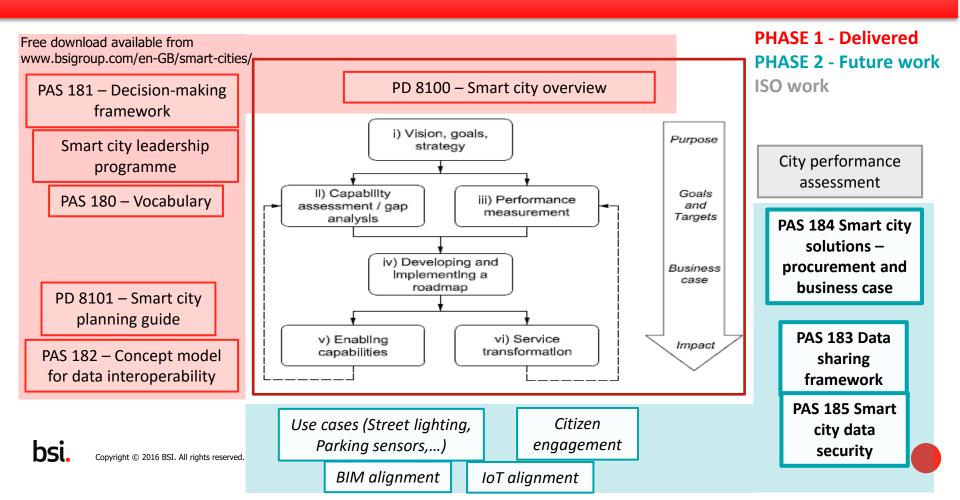
✓ Provide good practice for developing smart cities

✓ Allow the development of replicable solutions

✓ Increase confidence in procurement of infrastructure and services



Standards for smart cities







...making excellence a habit.™



Digital Technology

Matt Crunden
Training and BIM Manager



What is BIM? - Define

'BIM is essentially value creating collaboration through the entire life-cycle of an asset, underpinned by the creation, collation and exchange of shared 3D models and intelligent, structured data attached to them'



Building Information Modelling (BIM) Task Group

What is BIM? - Define

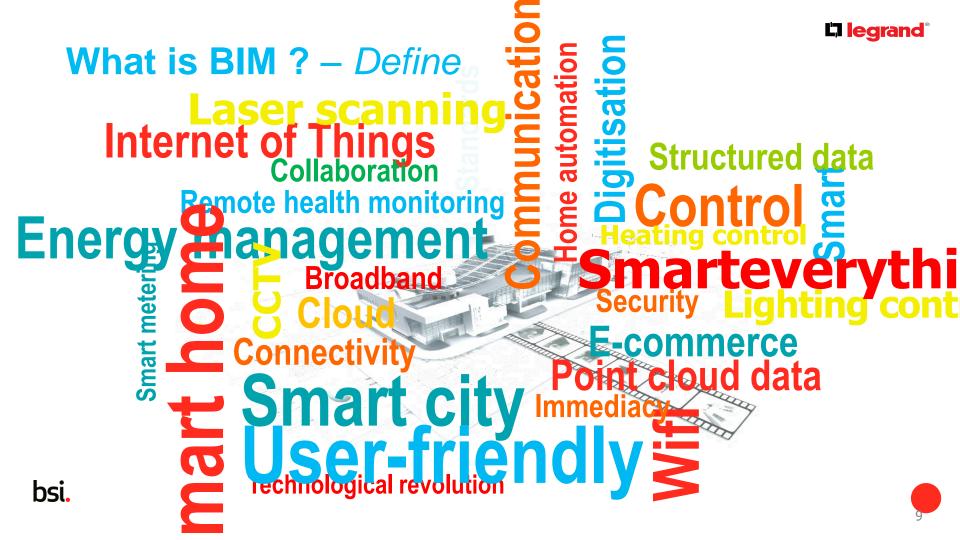
'Don't think about BIM on it's own — instead consider BIM to be part of a wider change

agenda '

- Building Information Model
- Building Information Modelling
- Building Information Management



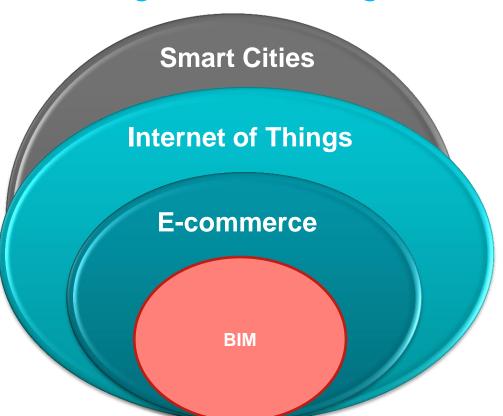
bsi. • Digital Engineering





What is BIM? – Digitisation & Digitalisation

A digital economy



Smart Cities Strategy

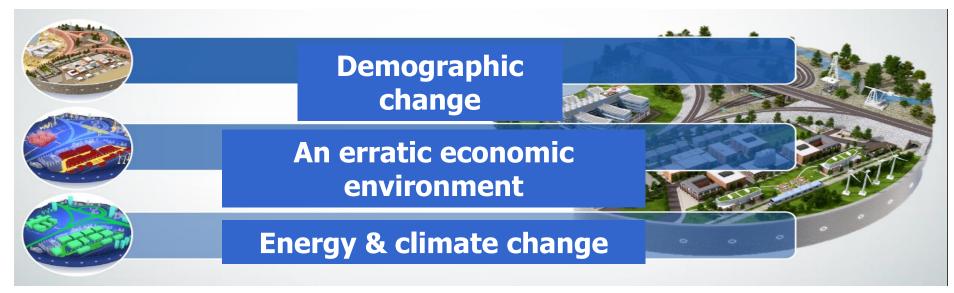
Info**DSi**tion Economy Strategy Business & Professional Services Strategy

Construction Strategy



What is BIM? – Digitisation & Digitalisation



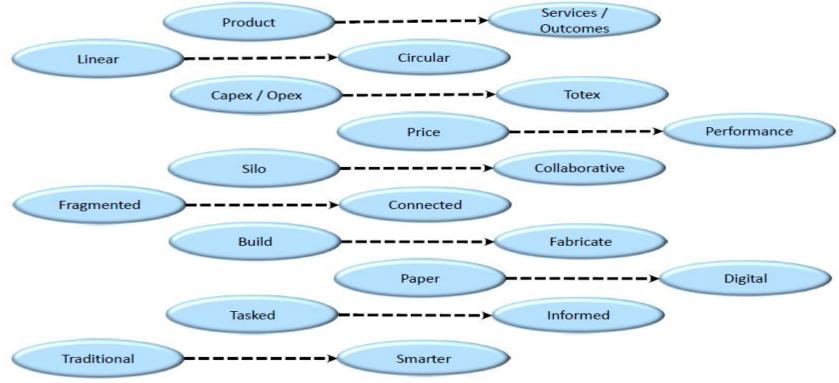


Mega-trends: environment challenges





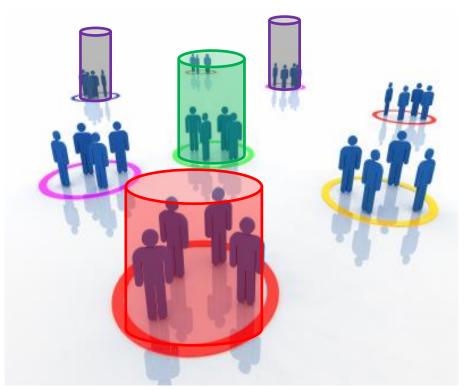




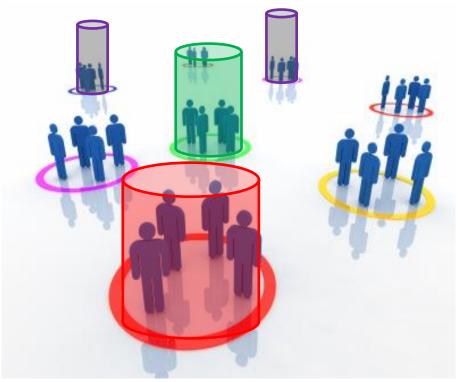
Mega-trends = a paradigm shift















COLLABORATION:

Two or more people working together towards shared goals



Government targets & the Construction Industry

Strategic Plans & Standards

"This Government's four year strategy for BIM implementation will change the dynamics and behaviours of the construction supply chain, unlocking new, more efficient and collaborative ways of working. This whole sector adoption of BIM will put us at the vanguard of a new digital construction era and position the UK to become the world leaders in BIM."

Francis Maude Minister for the Cabinet Office

in the built environment



www.bimtaskgroup.o

Lower costs

33%

reduction in the initial cost of construction and the whole life cost of built assets

Lower emissions

50%

Improvement in exports

50%

Government
Construction
Strategy

2.32 Government will require fully collaborative 3D BIM

(with all project and asset information, documentation and data being electronic) as a minimum by 2016. A staged plan will be published with mandated milestones showing measurable progress at the end of each year.



Source - Government Construction Strategy

reduction in the trade gap between total exports and

total imports for construction products and materials

Government targets & the Construction Industry

- Working Groups & Certification

For the UK construction product manufacturing sector to be recognised as a world leader in the integration of BIM and manufacturing technologies to supply the products and solutions for a sustainable built environment

















What is seen – The 'Iceberg'

WHAT IS SEEN

3D VISUALIZATIONS
COORDINATED DWGs
BASIC QUANTITIES

BIM DELIVERABLES

SOFTWARE

HARDWARE

TRAINING

BIM REQUIREMENTS -



Thanks for listening...

MATT CRUNDEN

Training and BIM Manager

Mobile: +44 (0)7979 745 528 matt.crunden@legrand.co.uk

Legrand Electric Limited Great King Street North, Birmingham, B19 2LF Tel: 0870 608 9000 Fax: 0870 608 9004 www.legrand.co.uk | www.legrand3d.co.uk



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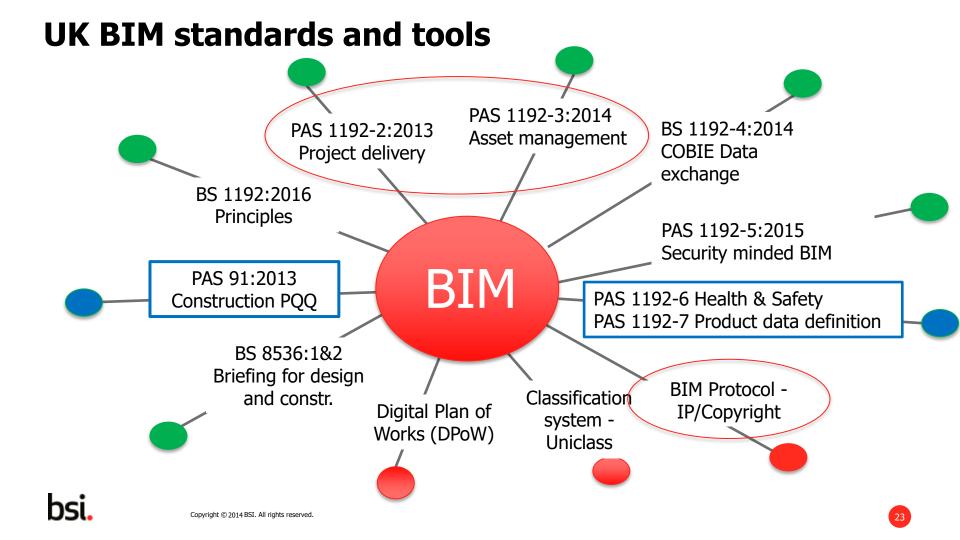
BIM standards update

Kieran Parkinson, BSI



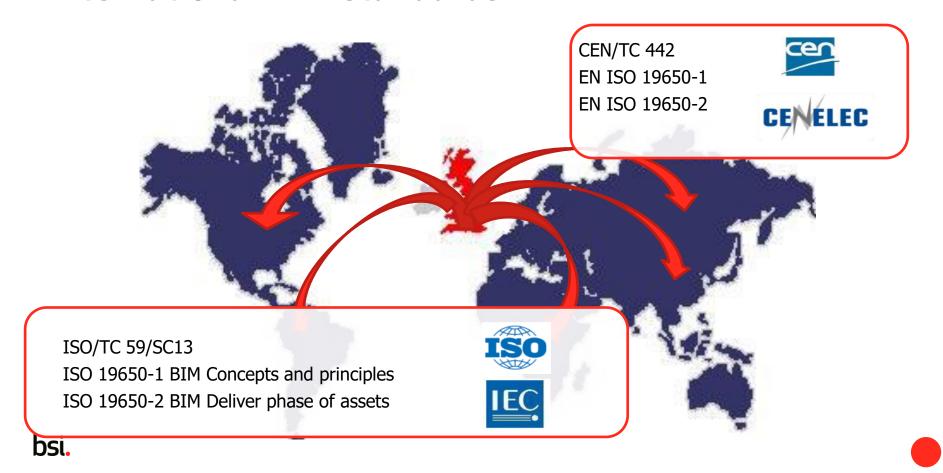








International BIM standards

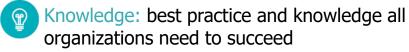






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