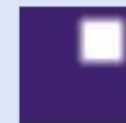


What is BIM

07th February 2012

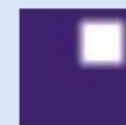
Jon de Souza



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“Constructing Excellence”

A national, regional and local
enabler for industry improvement
to deliver better built environments
through collaborative working



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Industry reform can be charted by a number of key reports



1994.....2009

Core improvement themes



Integration & collaborative working

Leadership & people (incl. health and safety)

Value

Sustainability

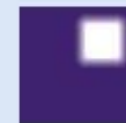


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What we mean by Collaborative Working

Six key aspects of integration

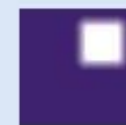
- Client focussed KPIs
- Early involvement
- Selection by value
- Modern commercial arrangements
- Long-term relationships
- Common processes and tools



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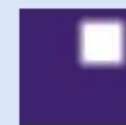
Common processes and tools

- IT can be an enabler for collaborative working
- But not a silver bullet!
- Collaborative software
 - Web-based project/programme extranets
 - Online KPI management software
 - Building Information Modelling
 - How do you integrate these three things?



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“The cruise liner years are over”



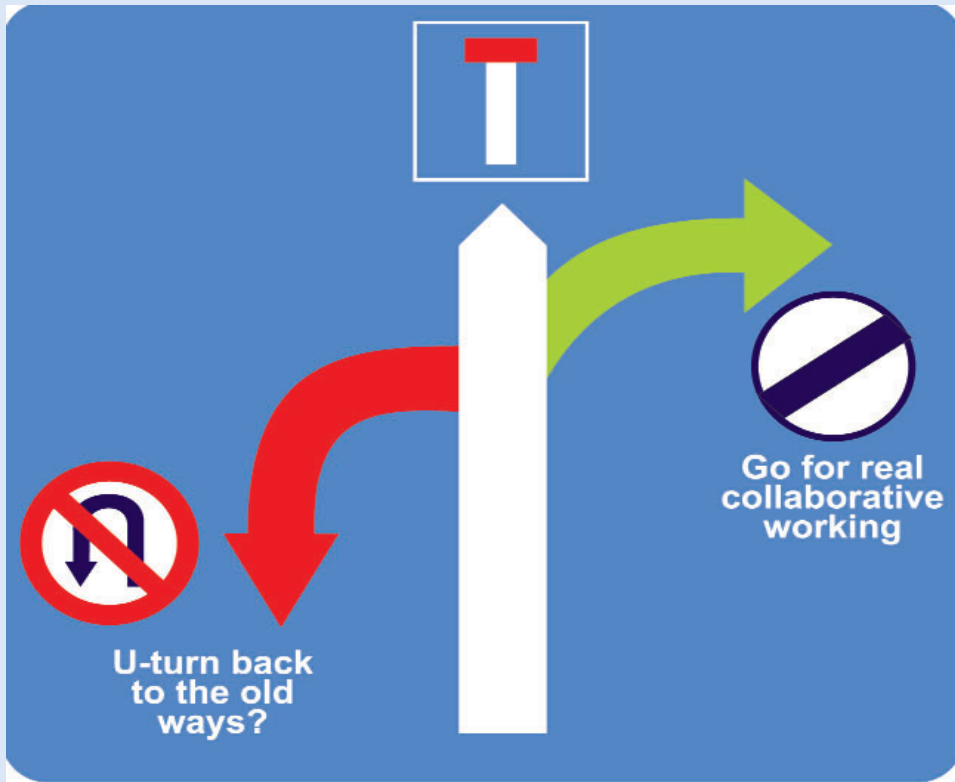
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UK construction output forecasts

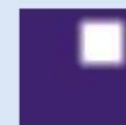
(£m, constant 2005 prices)								Annual average % growth
	2010	2011	2012	2013	2014	2015	2016	2012-2016
Public housing	4493	3684	2763	2901	2901	3046	3107	-3.3%
Private housing	13034	13034	14598	16058	16861	17535	17886	6.5%
Infrastructure	11802	11920	12873	13903	14320	14607	14753	4.4%
Public non-housing	13789	11721	9142	8319	7487	7487	7562	-8.4%
Industrial	3539	3645	3937	4370	4501	4636	4683	5.1%
Commercial	23057	22596	22596	24856	25850	26626	27691	4.2%
All new work	69714	66600	65910	70408	71921	73937	75681	2.6%
Housing R&M	16753	16335	16465	16778	17282	17800	17978	1.9%
Non-housing R&M	17768	17412	17517	17920	18278	18644	19017	1.8%
All R&M	34521	33804	33982	34698	35560	36444	36995	1.8%
Total work	104236	100405	99892	105106	107481	110381	112676	2.3%



This 'economic climate change' means companies face a stark choice



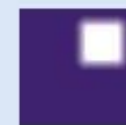
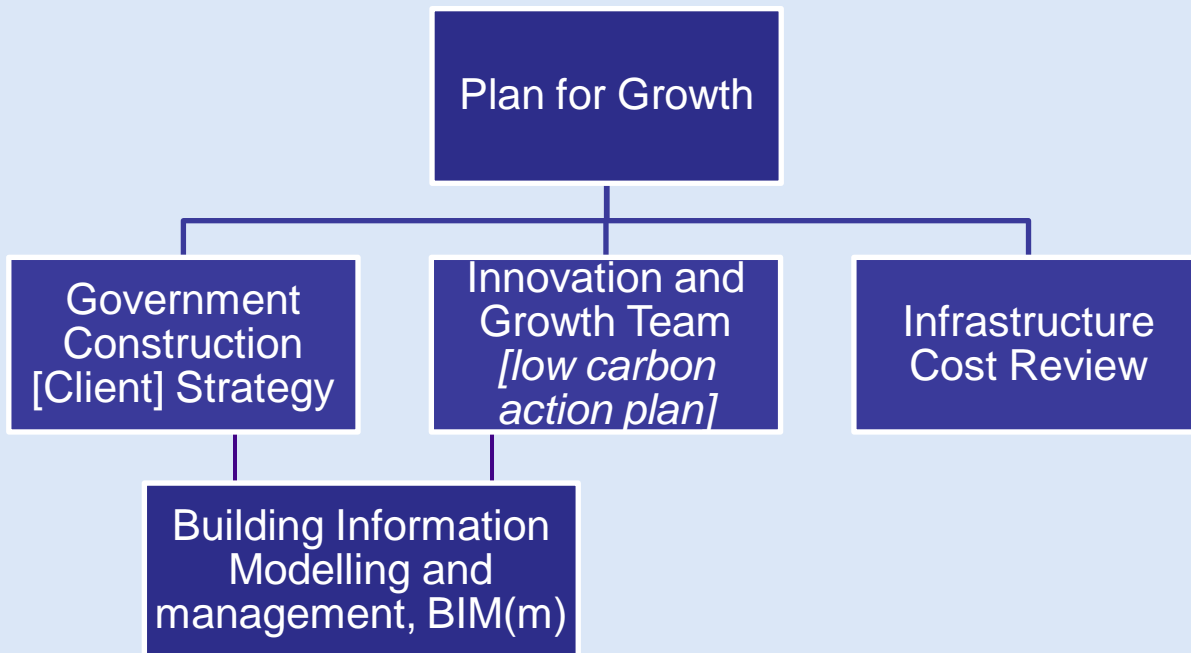
Collaborative Working Champions 'Survival Guide'



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Government policies

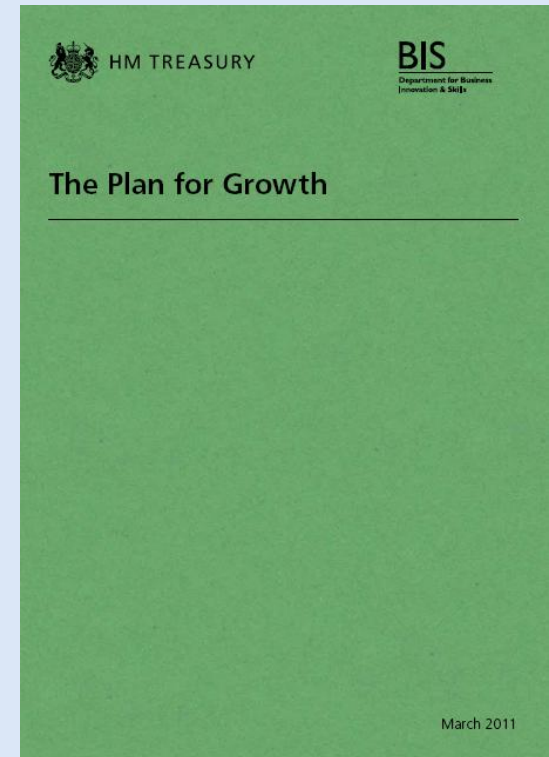
- Plan for Growth
- Government Construction *[Client]* Strategy
- Innovation and Growth Team *[low carbon]*
- Infrastructure UK implementation plan
- *Localism*



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The Plan for Growth: Ambitions and Measurable Benchmarks

- To create the most competitive tax system in the G20
- To make the UK one of the best places in Europe to start, finance and grow a business
- To encourage investment and exports as a route to a more balanced economy
- To create a more educated workforce that is the most flexible in Europe

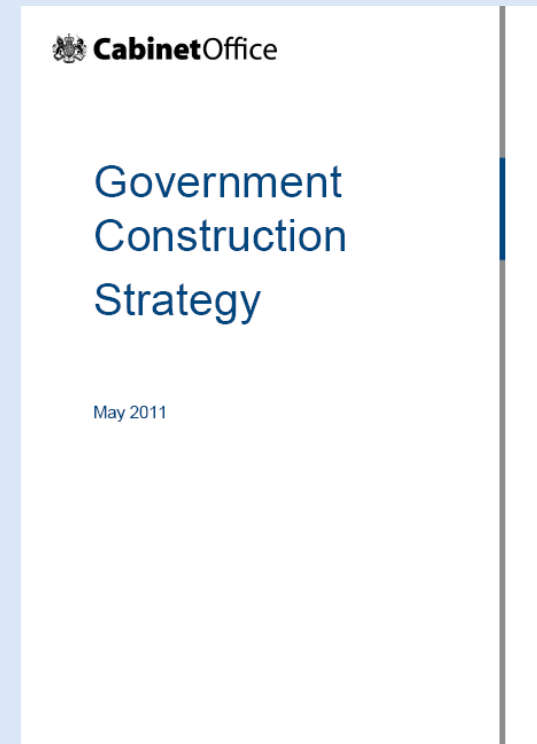


Government Construction [Client] Strategy

May 2011

- Co-ordinated approach across Govt
 - better value for taxpayers
 - procurement of construction is far more complex
- Eliminate wasteful processes in design, procurement and construction
- Transparency of the forward pipeline
- Trial procurement routes for integration
- Challenge to innovate
- Phased introduction of BIM

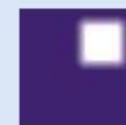
- Work with industry - which is asked to respond in an equally co-ordinated and coherent way



Government Construction Strategy



“I want to save this much on Government construction procurement”



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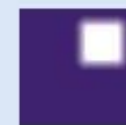
Government Construction Strategy

- The intelligent client function
- Procurement pilots
 - Cost-led procurement
 - Integrated project insurance
- How do you calculate the 20%
- BIM



BIM?

- BIM or
 - BIM(M) or
 - AIM(M)
-
- Collaborative design
 - Tool or process?



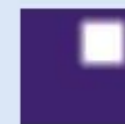
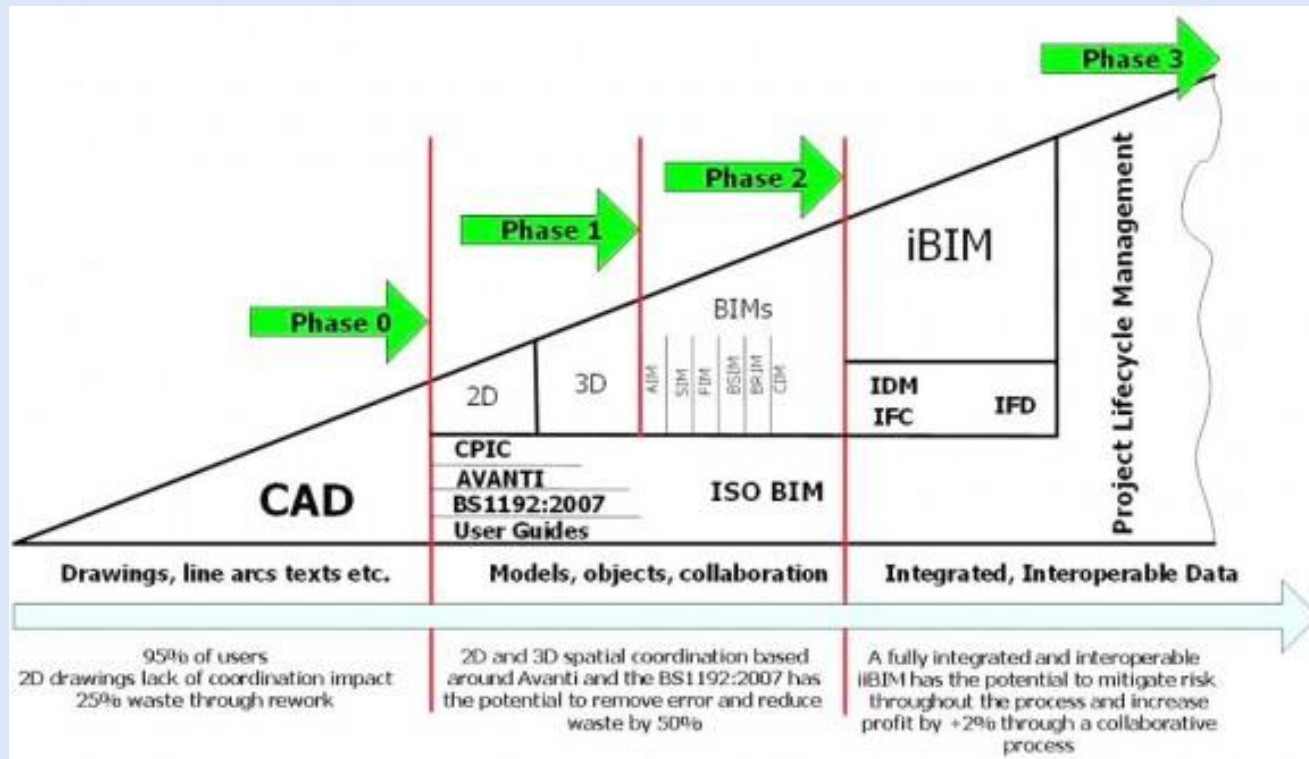
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BIM requirement

Public sector driving adoption:

- By 2015 All project teams must provide data to public clients at four key stages in the construction process
- This isn't a mandate for BIM – the data could be generated through Excel
- But 4D BIM will provide the easiest way to generate it

The rise of BIM



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We love BIM

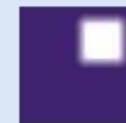
Why?

- Recognised you can't do BIM if you don't do integration
- Evidence showed savings that could be generated...
- Wanted to help our members stay at the leading edge

BIM task group

Chairman: John Lorimer, Manchester City Council

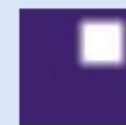
- Purpose
 - Community of practitioners to share experiences and to mentor those looking for support
- Participation
 - Over 40 individuals from member companies representing, on the whole, clients, contractors and consultants
- Main activities
 - Supporting Government review on use of BIM on public sector projects
 - Quarterly meetings, each of which includes a 'show and tell' session from a member on use of BIM
 - Web hub to signpost to various sources of information on BIM



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BIM benefits

- Better scheduling of works
- Clash detection
- Process improvement
- More accurate ordering of material
- Carbon reporting
- Facilities management
- Resource efficiency gains



BIM and FLASH

- Funding available through the FLASH programme to help SMEs develop a BIM process
- Understand contractual/insurance issues
- How to derive benefits
- What software is needed

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BIM and FLASH

- Supporting 60 SMEs in partnership with ELBP
- Programme funded up to May 2012
- Contact ELBP or Constructing Excellence to participate