

# Status of Open BIM in the UK and Ireland

Dr Anne Kemp

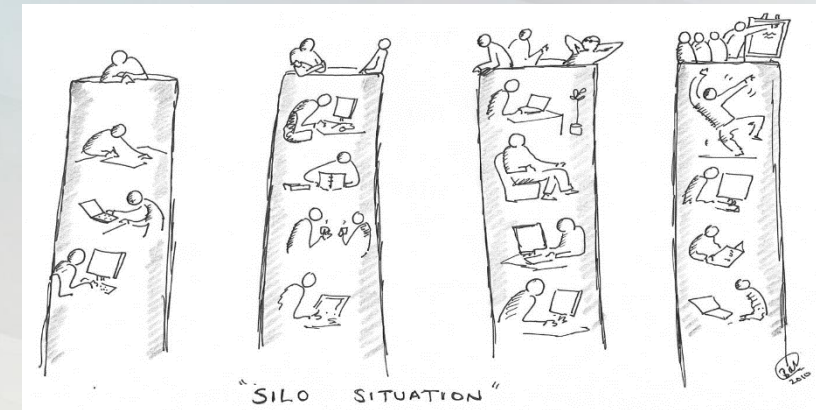
17<sup>th</sup> November 2017

# Introducing:



Common understanding; common approach; one voice

## Transcending silos



# Vision

- **Engaging the industry, focus, leadership**
- **Vision for digital transformation**
- **Level 3 and beyond – Digital Built Britain**
- **Level 2 business as usual by 2020**



# Our Journey

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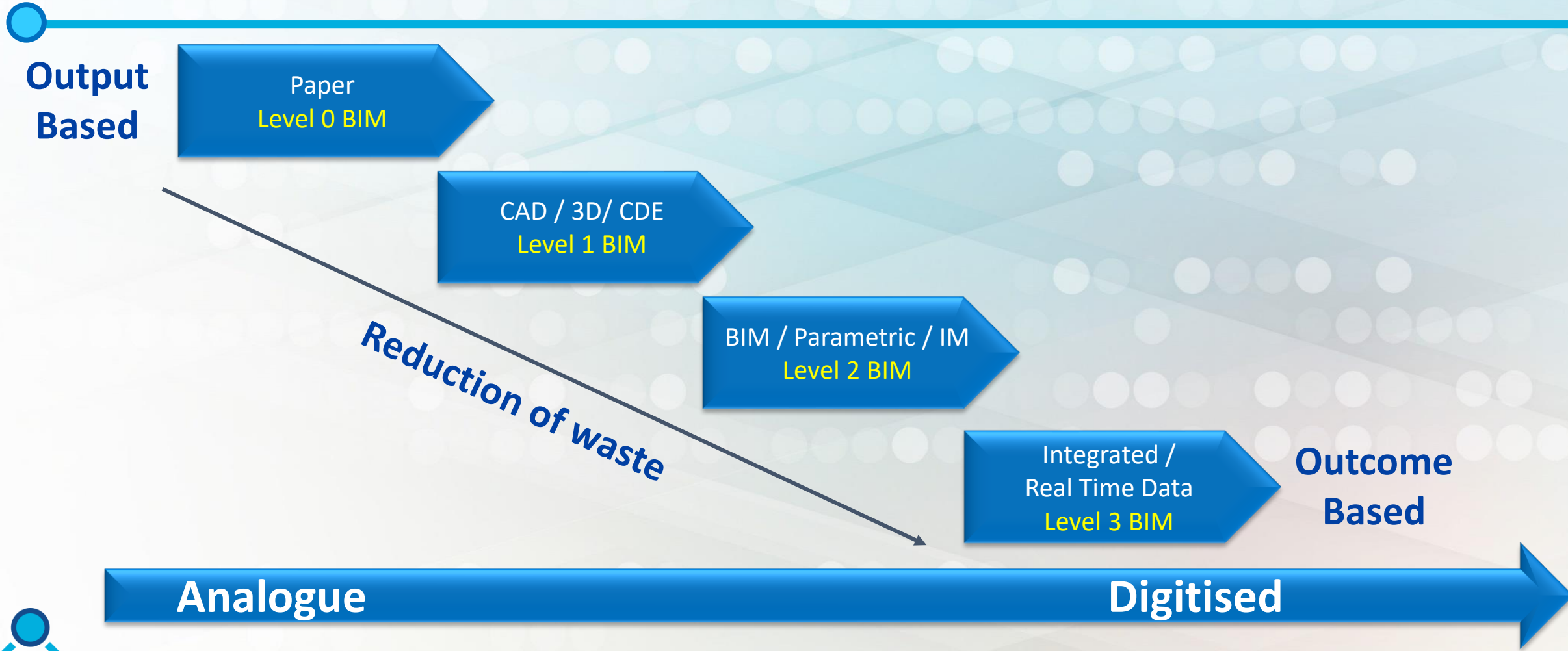
**The way we were...**

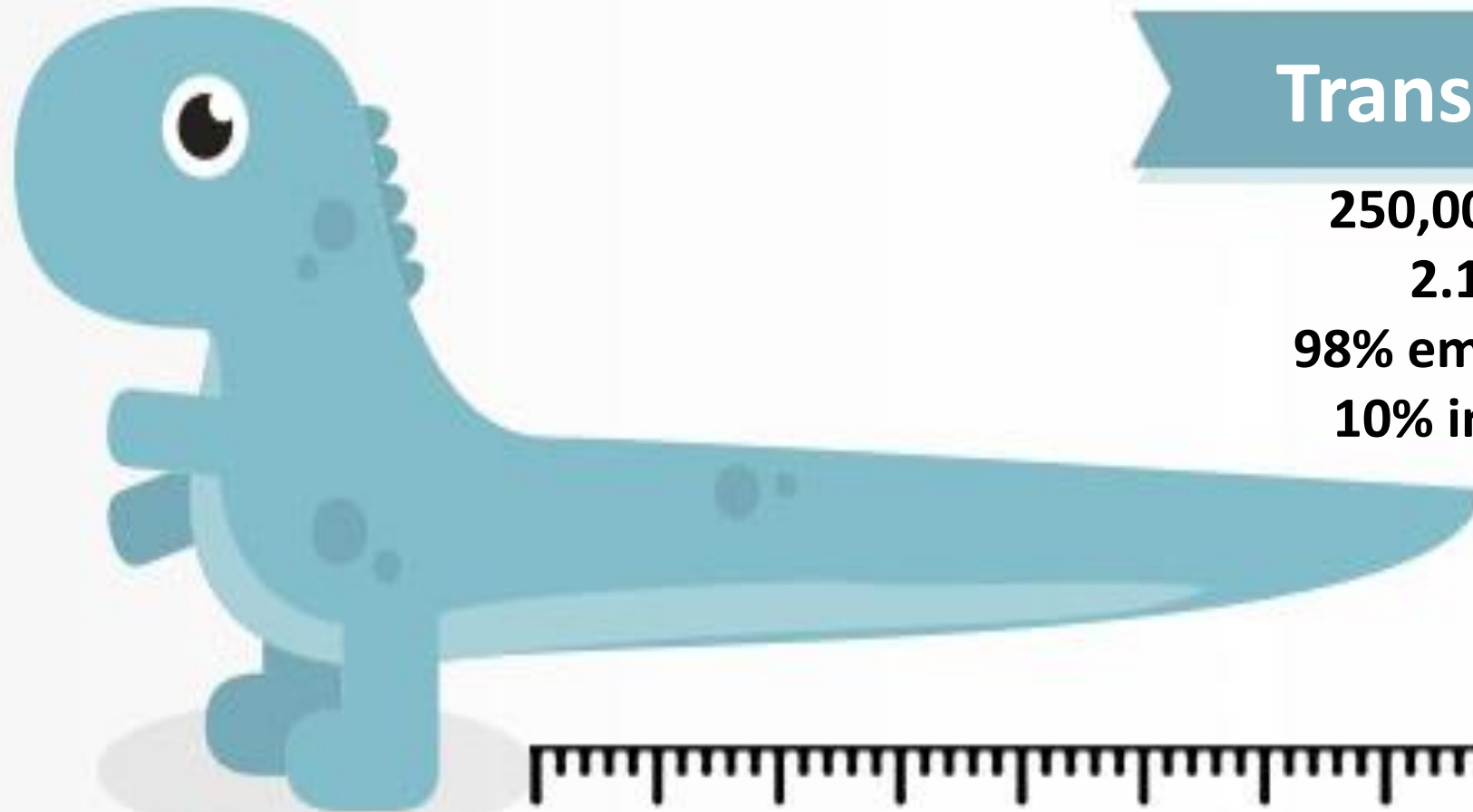
**How did we get here?**





# Industry in transition





## Transformation

**250,000 businesses**

**2.1m people**

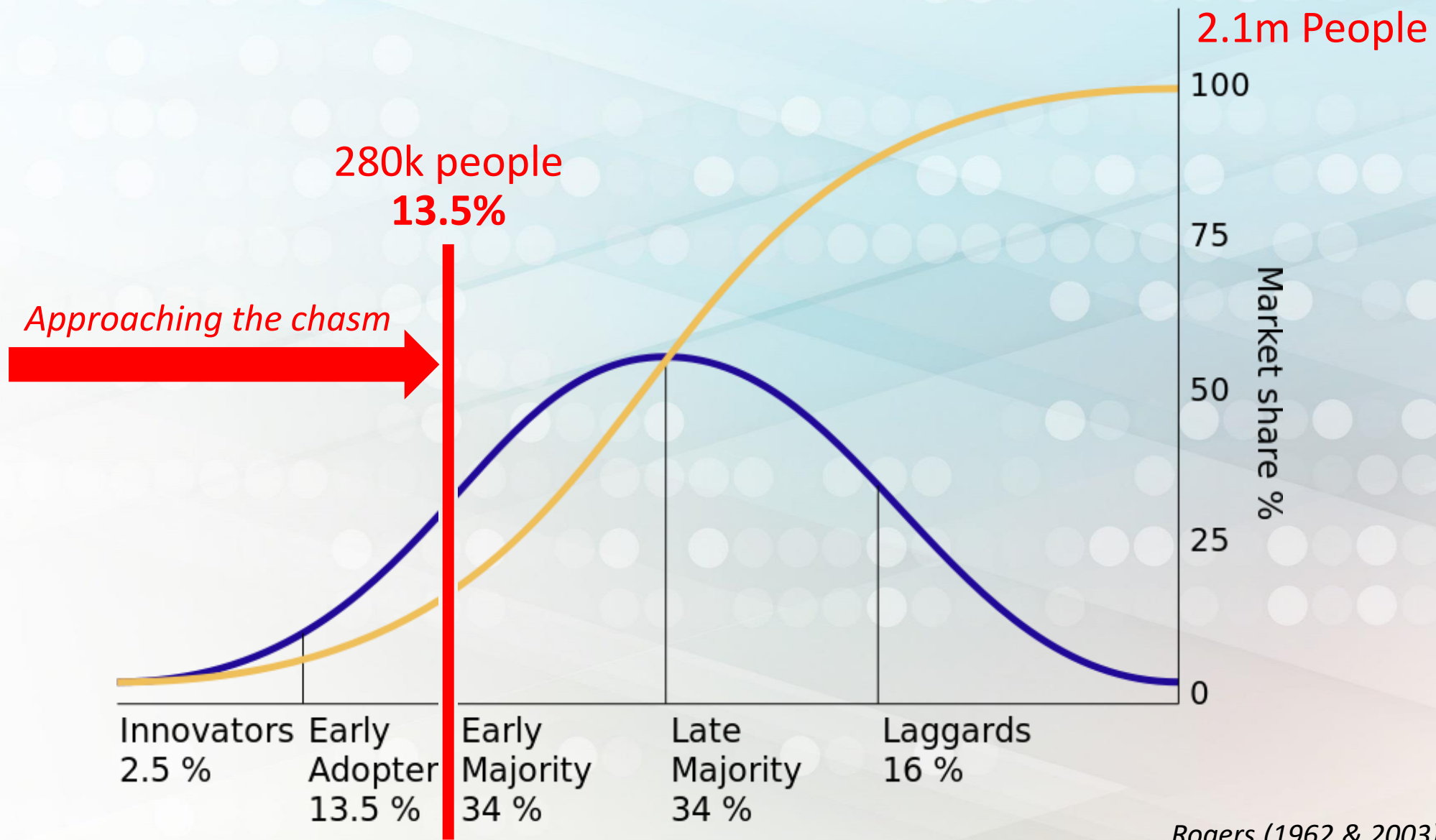
**98% employ 34 or less**

**10% impact so far?**

*Source ONS 2015*



# Long tail of industry



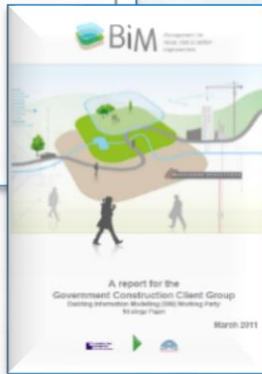
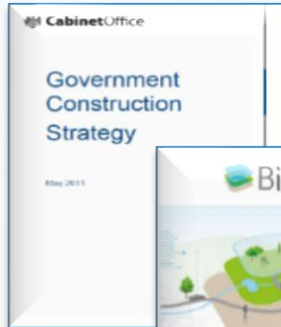
Rogers (1962 & 2003), Moore (2015)



# 2011

## Moving an Industry

# 2016



UK BIM Task Force

Draft and issue of key BIM Docs

Pilot Projects

Support Key Govt Depts

Task Group Legacy

Link to 2025 Industrial Strategy & Digital Built Britain

Build knowledge and capacity in Govt Departments

Creation of Level 2 Standards and Tools

Level 2 Wrapper

Industry / Sector BIM 4 Groups

Bldg capability in supply chain

Data Validation

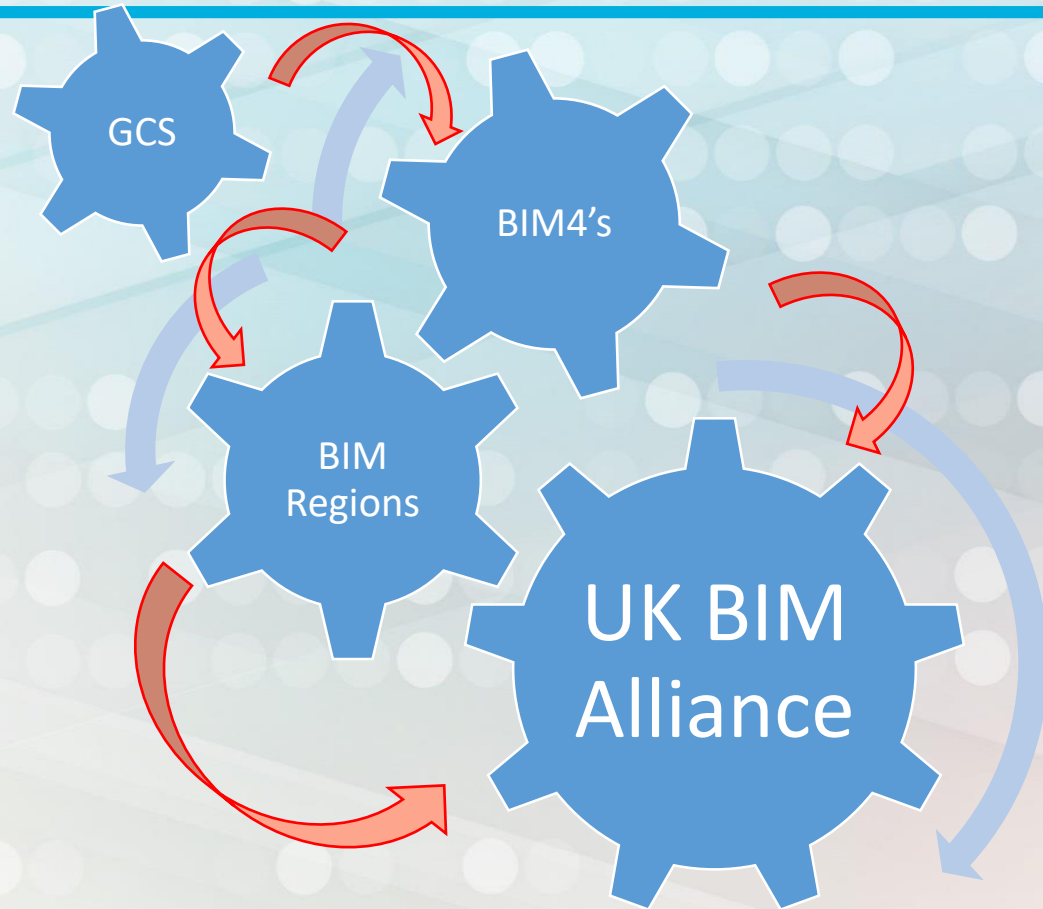
Dept Stewardship Groups

# The Journey

So who were we?

What did we do?

Why us?



# The original BIM4Communities

The BIM4 communities are a collaboration of specialist interests groups who champion **BIM** in their respective specialist areas.

Their purpose is to raise awareness of BIM, promoting a shared understanding of the value proposition and issues affecting the implementation of BIM in their respective areas of interests.

The BIM4 communities seek to develop consistency of messaging in a clear and concise manner to support both new and existing professionals in their respective BIM journeys.



## CONNECT WITH BIM COMMUNITY GROUPS



### ACADEMIA GROUPS

Promoting a need for academic change to support an equipped digital construction workforce.

- View Groups -



### CLIENT GROUPS

Sharing knowledge and shared values of the digitally enabled client.

- View Groups -



### DELIVERY GROUPS

Raising awareness and helping build capability within the AEC supply chain community.

- View Groups -



### FORESIGHT GROUPS

Ensuring a futurewise outlook on a journey towards sector digitisation including research and development needs.

- View Groups -



### MANUFACTURING GROUPS

Providing a forum of manufacturers and manufacturing in the shift to digital products and harmonisation of PTDS.

- View Groups -

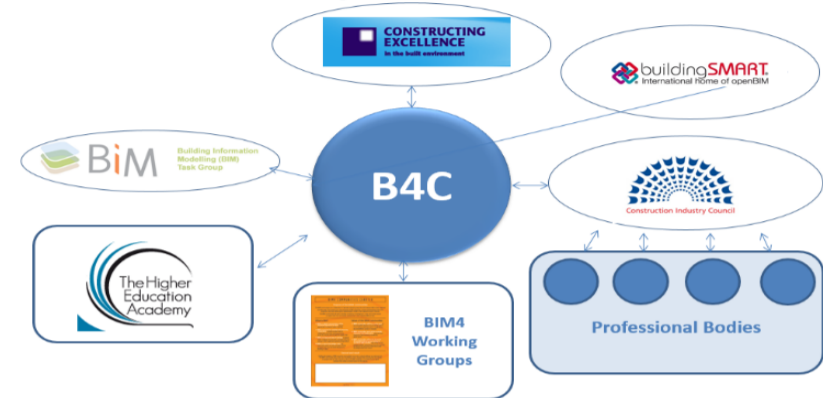


### STANDARDS GROUPS

Ensuring the creation of standards to support information management and data exchanges in the digital lifecycle.

- View Groups -

## B4C Stakeholder Map:



# The Need

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- Five years on from 2011 GCS
- Transition of Task Group to L3
- Need for industry focus
- Stewardship of Level 2
- Achieve 2020
- “Business as usual”

# Relationship with HM Government

Ownership of BIM Level 2 stays with HM Government

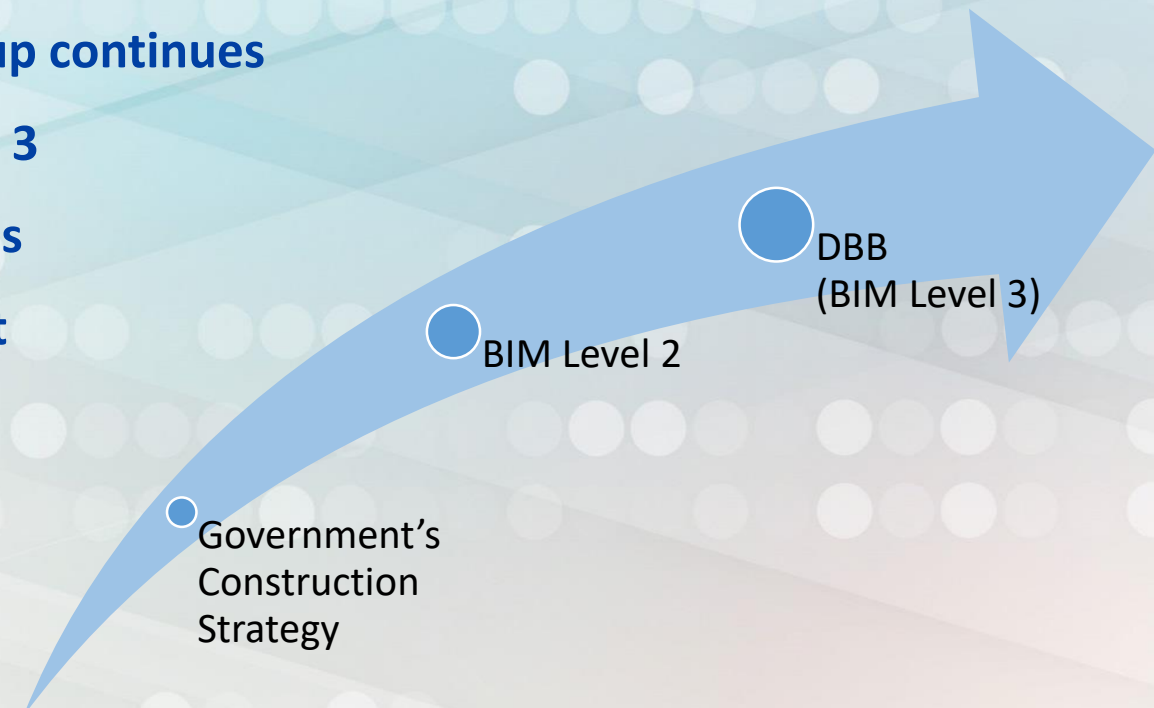
Government Departments' BIM working group continues

BIM Task Group moves to DBB and BIM Level 3

UKBA formed for BIM Level 2 leadership focus

Shared innovation planning and commitment

Launched Oct 2016 ICE/DCW



Vision: a digitally enabled UK built environment

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***Mission***

To facilitate and ensure the adoption and implementation of BIM Level 2 as business as usual by 2020.

***Goal***

To reach adoption levels of 75% for the supply and demand chain.

***Our Values***

Innovative

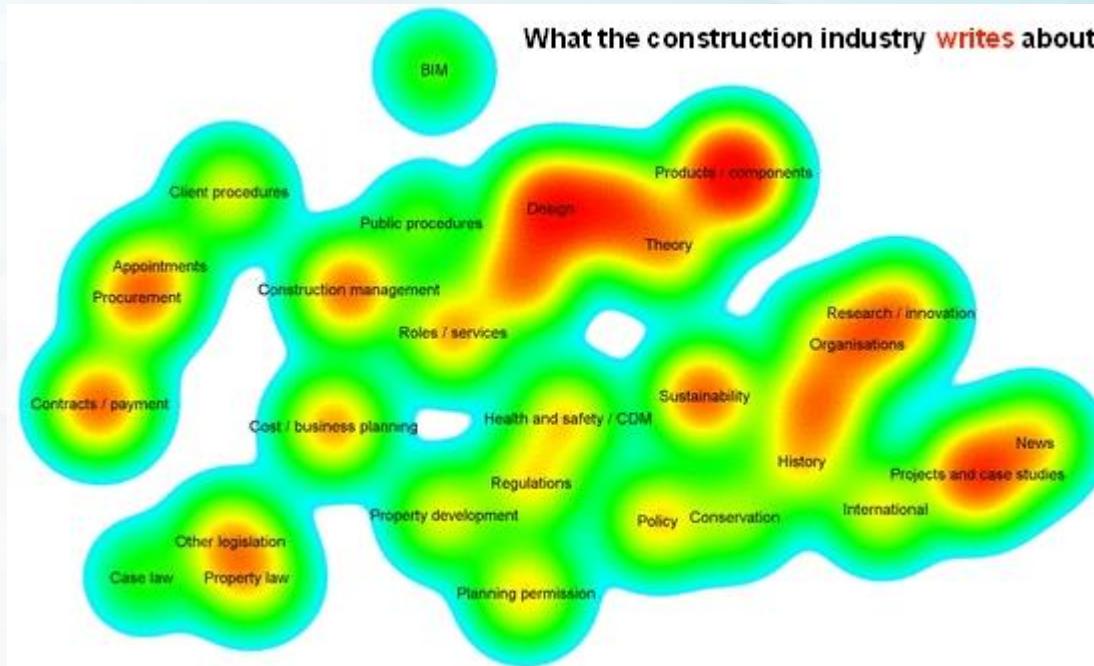
Inclusive

Collaborative

Supportive

Transparent

Forward thinking



[https://www.designingbuildings.co.uk/wiki/The\\_construction\\_knowledge\\_gap\\_images\\_and\\_files](https://www.designingbuildings.co.uk/wiki/The_construction_knowledge_gap_images_and_files)  
21 September 2017



# UK BIM Alliance Manifesto

- We aim to represent and coordinate the digital transformation of our industry by supporting the industry's implementation of Level 2 BIM.
- Our representation is independent and transparent, supported by a network that is empowered to work in partnership with government, institutions and industry.
- We invite any group, organisation and individual to join the Alliance and utilise the resources available to maximise the impact of the implementation on BIM Level 2.
- We will implement initiatives via projects that are independently funded and focused on achieving progressive outcomes in small achievable steps.

## Join us!



"BIM in the UK: Past, Present & Future."



Strategic Plan  
October 2016



<http://www.ukbimalliance.org>

# Strategies

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- **Engagement (Awareness)**

Champion BIM Level 2 and the BIM level 2 mandate.

- **Upskilling (previously Education)**

Direct a programme for change that targets those stakeholders with the most to gain.

- **Knowledge Bank (previously Case Study)**

Celebrate the successful implementation of BIM Level 2 on projects and on through the life cycle, examining the benefits achieved.

- **Business Case**

Demonstrate how the adoption of BIM Level 2 positively affects the bottom line, and the business outcomes.

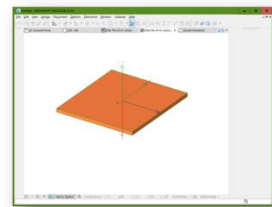
- **Optimisation**

Support consolidation of existing and developing tools and supporting infrastructure, whilst encouraging new approaches, new ideas and the creation of new tools to help the industry optimise its use of BIM Level 2.

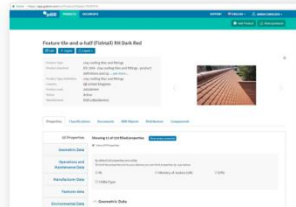


# GUIDENCE FOR CLIENT DATA REQUIREMENTS

The success of BIM is predicated on the managed exchange of information (models, data and information) throughout an asset's lifecycle, so that critical decisions can be made by the client and their supply chain, based on timely and accurate information.



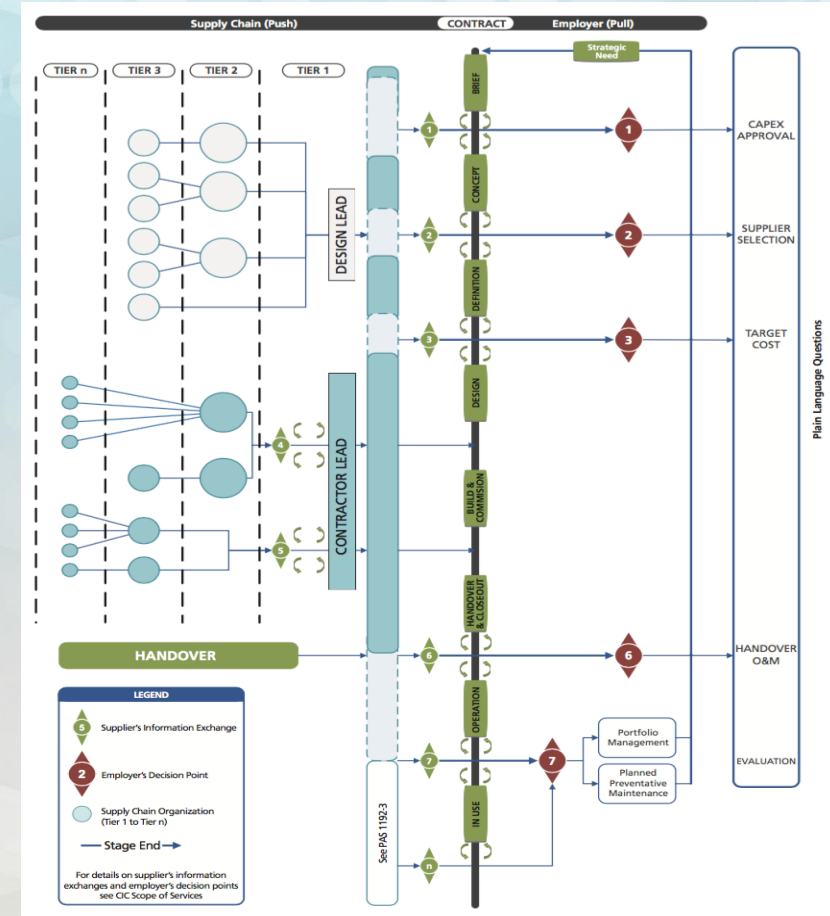
Object



Data



Documentation



# ADOPTING A BASELINE SECURITY APPROACH FOR DESIGN AND CONSTRUCTION OF BUILT ASSETS

<http://www.ukbimalliance.org/>

HOME ABOUT US NEWS AND EVENTS BIM COMMUNITIES PROJECTS RESOURCES CONTACT US

Who needs to do what and when  
Implementation process

Security project team

Guidance

Standards

Templates

# UK BIM ALLIANCE

Organisational Structure




# Collaborators so far include

BIM4SME BIM4Retail WomenInBIM Survey4BIM  
BIM4Fitout BIM4Water BIM4MetP BIM4Rail  
BIM4Landscape BIM2050/.BE BIM Technology  
Alliance/CIRIA Behaviours4Collaboration  
BIM4Infrastructure BIM Academy BIM4Contractors  
BuildOffSite BIM4Clients BIM4Health CIC BIM Forum  
BIM4DataCentres Build UK BIM group BIM Stewardship  
Group BIM4M2 CIOB BIM4Education DEC!/COYO  
BIM4Housing BIM Regions Scotland South Wales  
Yorkshire/Humber North East North West West Midlands  
East Midlands East London South East South West Oxford  
Thames Valley Kent Sussex Northern Ireland Republic of  
Ireland CITA BuildingSmart CIC RICS IET ICE BIM Task  
Group BSI Digital Construction Week TheB1M.....and  
growing...

ACE AD4 AECOM Arup Atkins Autodesk Babcock Balfour  
Beatty BAM BEAMA Bentley Systems Black & Veatch  
Bouygues BRS BSI BuildingSmart International Buro  
Happold Cavendish CH2M CIAT CIBSE CIC CIOB City & Guilds  
Class of Your Own CLC Construction Excellence Construction  
Youth Trust Costain Crossrail Ferrovial Agroman Gleeds  
Heathrow HS2 IBM ICE ICES IET Infrastructure Client Group  
Institute of Town Planning IPA ISS Jacobs JCT Kier Knauf  
Insulation KTN Laing O'Rourke Landscape Institute Leica  
Mace Mapaction Mott McDonald MWH part of Stantec  
National Infrastructure Council NBS Network Rail/MPA  
Ordnance Survey Oxford Brookes University RICS Rolls  
Royce RSFM Scottish Futures Skanska Specialist Engineering  
Contractors Tarmac Tata Steel The Cubicle Centre TSA  
Turner and Townsend University of Cambridge Vinci  
Construction Wates Wienerberger Westminster University  
Willmott Dixon.....and growing...

# Patrons and Sponsors

		Patrons Sponsorship Annual Packages			
		Platinum £10,000	Gold £7,000	Silver £5,000	Bronze £2,000
Level	Cost ex. VAT	Packages			
Benefits					
	Quarterly update report	✓	✓	✓	✓
	One representative to become a rotating member of strategic advisory group	✓	✓	✓	✓
	Use of UKBIMA logo on your email signature	✓	✓	✓	✓
	Static inert Company logo on website on Patrons tab	-	-	-	✓
	Patrons logo on Patrons slide under Bronze tab	-	-	-	✓
	***Submission of blogs – opinion piece, news, case studies	✓	✓	✓	
	Patron logo on Patrons slide under Silver tab	-	-	✓	-
	Patron logo with hyperlink on Patrons page on website	-	-	✓	-
	General point of contact within UK BIM Alliance	-	✓	✓	-
	Patron logo position at the top of the Patrons slide under Gold	-	✓	-	-
	Listed & short description on Patrons page	✓	✓	-	-
	*Opportunity to support aligned events	✓	✓	-	-
	**Commenting on articles through media – media spokesperson	✓	✓	-	-
	***Content to be included in newsletter with no CTA	✓	✓	-	-
	Patron Logo throughout website (Footer)	✓	-	-	-
	Opportunity to present at an Alliance Forum meeting	✓	-	-	-
	***Send one targeted email to database with CTA	✓	-	-	-
	Patron logo positioned on Platinum Patrons slide	✓	-	-	-
	***Speaking on behalf of the UK BIM Alliance	✓	-	-	-
	Patron logo on newsletter	✓	-	-	-
	*First refusal on becoming part of media campaign	✓	-	-	-
	Dedicated & named point of contact at the UKBIM Alliance	✓	-	-	-

*additional costs may be incurred
**on approval of UK BIM Alliance Executive Team
***content to be approved by UKBIMA Communications Team
All costs are exclusive of VAT



# Dilbert

By Scott Adams

I STARTED CREATING  
AN EXEMPLAR  
MIDP TEMPLATE



Dilbert.com DilbertCartoonist@gmail.com

REALLY?  
I'M DOING  
THE SAME  
THING.



4-27-11 © 2011 Scott Adams, Inc. Dist. by Universal Uclick



Avoid Duplication of Effort  
(SOMETIMES)

# buildingSMART UK & Ireland INfraRoomUK Meeting 1: Cobie / Coins Workshop

Venue: 5 Churchill Place, Canary Wharf, London,

Date: 6<sup>th</sup> June 2016

Time: 09:00am – 12:00pm

## Attendees:

Phil Jackson (Chair) [PJ], Nick Nesbit (Technical Coordinator) [NN]

50 participants – beyond the current bSUKI membership

*Dare to be different,  
Dare to be wrong,  
Dare to be controversial .....*

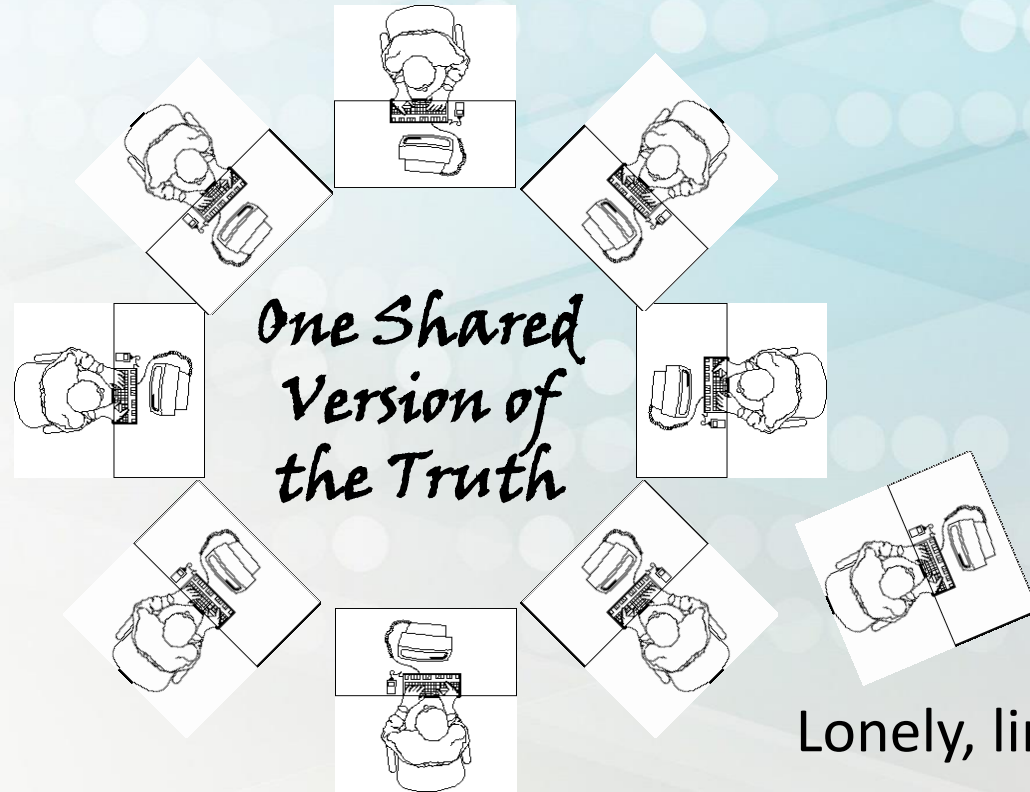


Item	Comments	Time
1	House Keeping – Harry Parnell	5mins
2	Introduction – Building Smart / UK Building Alliance – Anne Kemp	10mins
3	Infra-Room Summit in Rotterdam – Phil Jackson <ul style="list-style-type: none"> <li>• Projects               <ul style="list-style-type: none"> <li>○ Overall Architecture</li> <li>○ Liaison with OGC and Land-infra</li> <li>○ Alignment 1.0 &amp; 1.1</li> <li>○ Rail – International Standard and PAS</li> <li>○ Road – International Standard and PAS</li> <li>○ Cobie</li> </ul> </li> </ul>	30mins
4	What's is Cobie4all? BS1192 -4 – Nick Nesbit <ul style="list-style-type: none"> <li>• Future Developments how to get involved</li> </ul>	15mins
5	Cobie UK Developments / WIP <ul style="list-style-type: none"> <li>• Environment Agency – Graham Tappenden</li> <li>• Crossrail – Iain Miskimmin Bentley / Illias Krystallis</li> <li>• Highways England – Harry Parnell</li> </ul>	30mins 10mins each
6	Coins RWS - Benno Koehorst <ul style="list-style-type: none"> <li>• Coins Presentation</li> <li>• Work in Practice</li> </ul>	30mins
7	Cobie Vs Coins – Hugh Woods <ul style="list-style-type: none"> <li>• Highways England commissioned paper</li> </ul>	20 minutes
8	Debate / Next Steps	30mins
9	Date of next IN	
10	Lunch Provide	

ATKINS



So you think you're being nice .....??



.....One, coherent, consistent message to the industry?

# High Ambitions

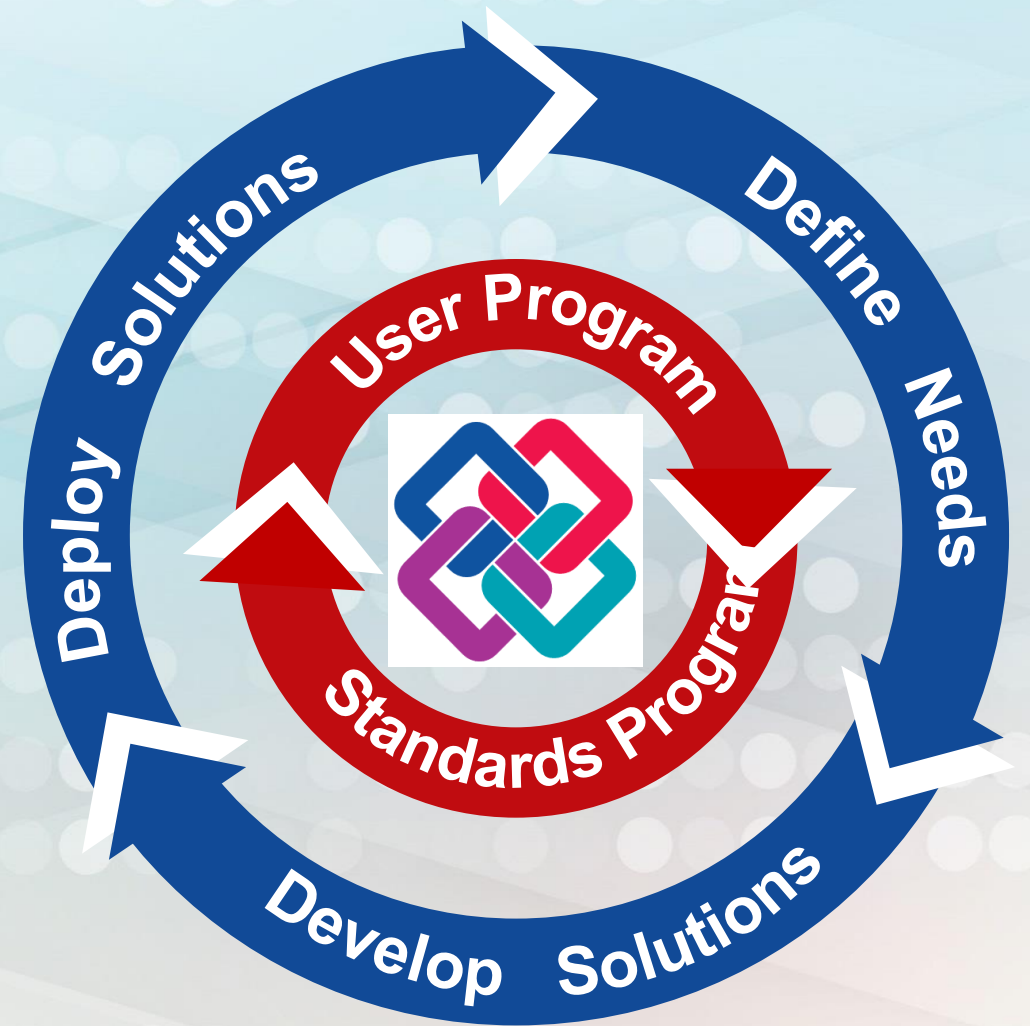
**Our Goal:** Enable full benefits from digital ways of working in the built asset industry

**Our Journey:** Success will mean

Standards Body of Reference

Vibrant Chapters

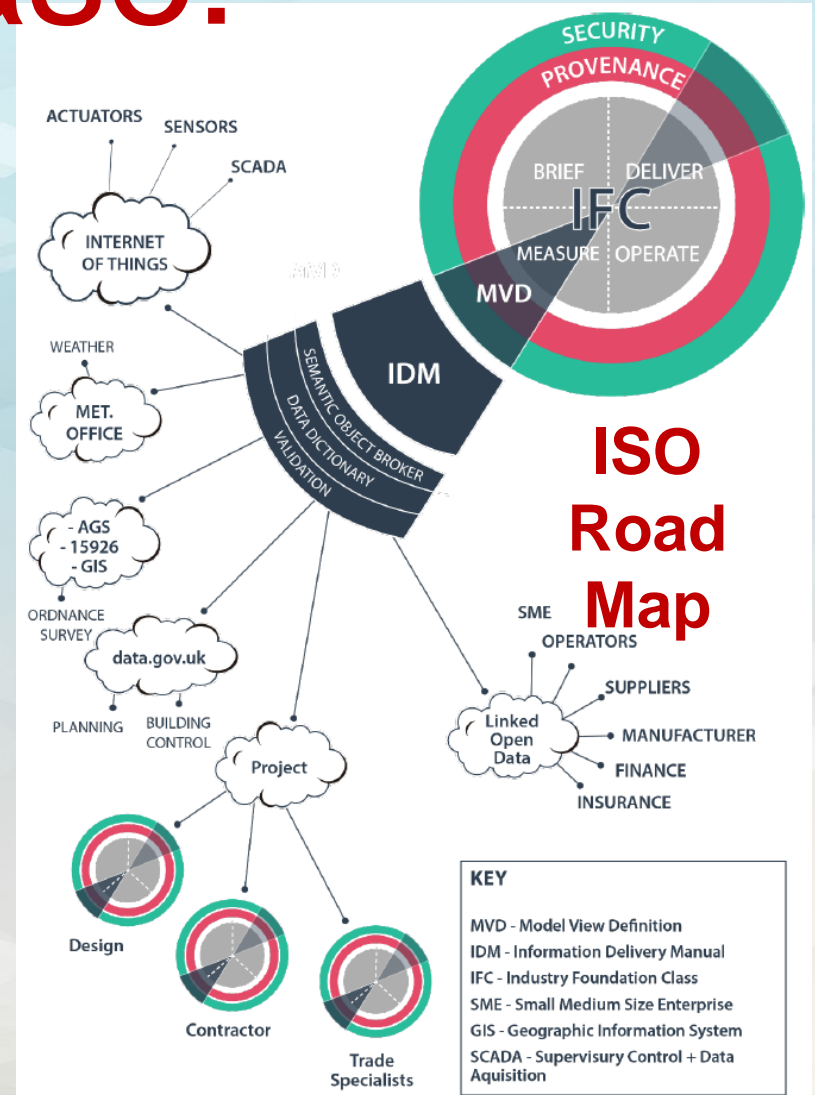
Quality Mark in demand



# High Level Benefits Case:

The strategic need, benefits and rationale for open data standards are well understood at high levels:

- 34 Public sector mandates
- BIM uptake Rapidly increasing
- ISO TF02 Technical Roadmap work proceeding



# bSI

## Chapter Charter

# Chapters

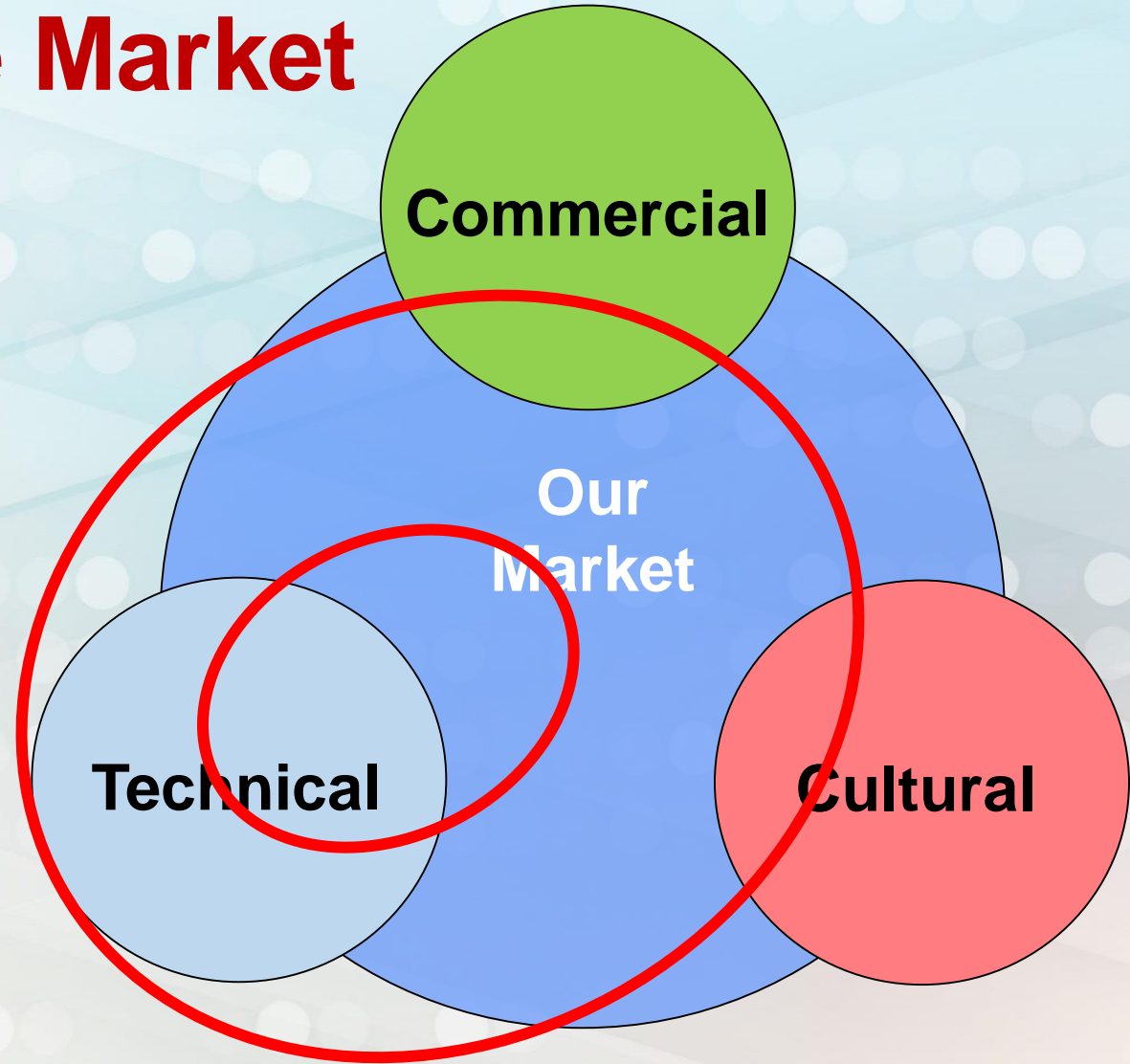
- Membership framework & rules
- 3 core programs – organisation & leadership
- IT platform – marketing, business development & intranet
- International marketing & senior influencer engagement

- Benefits to the built asset industry
- Active use open BIM
- Development & implementation open Standards
- Government, business & academia support

- Regional leadership
- Generate support at the highest levels of government, academia & business
- Advanced implementation of cultural, commercial & technical processes
- Engagement & Deployment
- Local solutions & localisation
- Work within bS International programs  
Standards  
Compliance  
Chapter

# Our influence on the Market

Today

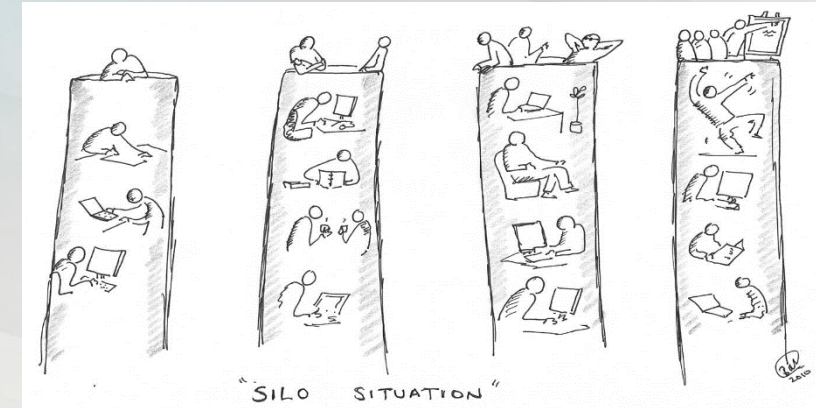


# Introducing:



Common understanding; common approach; one voice

## Transcending silos





Together,  
the UK BIM Alliance and the UK & Ireland Chapter of buildingSMART  
will be:

Relevant today .....

Future-proof for tomorrow

**UK BIM Alliance: [www.ukbimalliance.org](http://www.ukbimalliance.org)**

**Chair - Anne Kemp**

**[chair@ukbimalliance.org](mailto:chair@ukbimalliance.org)**

**BIM Regions UK:**

**Joint Chair - John Eynon**

**[johneynon@me.com](mailto:johneynon@me.com)**

**Comms lead – Pam Bhandal**

**[pam@pam.Bhandal.com](mailto:pam@pam.Bhandal.com)**

**BIM4Communities:**

**Lead – Andy Boutle/Jill Guthrie**

**[Communities@ukbimalliance.org](mailto:Communities@ukbimalliance.org)**