





REHVA

BIM Developments and Challenges in HVAC

4th April 2017





Presenter

Carl Collins

Consultant to CIBSE





Developments





PAS1192-5



PAS 1192-5:2015

Specification for security-minded building information modelling, digital built environments and smart asset management



"An attack on US retailer Target, in which millions of customers' credit card information was stolen, was traced back to the heating and ventilation system."

BBC News





ISO 19650



Internationalising the "BIM Level 2" concepts.





BIMHawk



https://www.bimhawk.co.uk/

Standardising the way we describe things.





BIMHawk



Boiler

Product Data Template

Template Category	Boiler with Integrated Burner	Boiler with Integrated Burner - Gas or Oil				
Template Version	v3	v3				
Category Description	Gas & Oil Fired Boiler used for	Gas & Oil Fired Boiler used for space heating and indirect hot water generation with integrated burner				
Classification	Pr_60_60_08	Pr_60_60_08				
Classification System	Uniclass2015	Uniclass2015				
Suitability for Use	Approved	Approved				
Template Custodian	CIBSE	CIBSE				
Information Category	Parameter Name	Value		Units	Notes	
Manufact	turer Data			<u> </u>	*	
COBie Data	Manufacturer			Text	This is a COBie field, other fields will be req	
Specifications	Manufacturer Website			URL		
Specifications	Product Range			Text		
Specifications	Product Model Number			Text	Or Code	
Specifications	CE Mark			Text	Number, Yes, No	
Specifications	Product Literature			URL		
Specifications	Additional Technical Details			URL	URL to technical details, e.g. system flow ra.	
COBie Data	Features			Text	This is a COBie field, other fields will be req	
Construc	tion Data					
Specifications	Туре			Text	This is a COBie field, other fields will be req	
Specifications	Configuration		7	Enumeration		
OBie Data	Shape		7	Enumeration	This is a COBie field, other fields will be req	
Specifications	External Material		7	Enumeration	This is a COBie field, other fields will be req	
COBie Data	Colour			Text	This is a COBie field, other fields will be req	
COBie Data	Finish			Text	This is a COBie field, other fields will be req	
Specifications	Mounting		•	Enumeration	State how product is mounted	
Specifications	Burner Control Type		▼	Enumeration		
Specifications	Heat Exchanger Material		v	Enumeration		





UK BIM Alliance







Challenges





Engagement and Perception



Estimated 8% market penetration in UK to "expert level".

"It's just 3D CAD"

"I can't afford it"

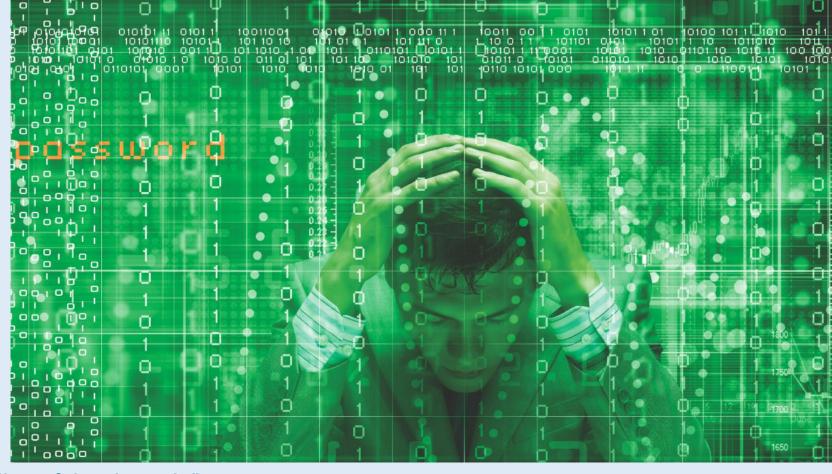
"It doesn't affect me"

"I'm not learning new software..."





Data Overload



Everyone asks for "their slice of the data pie"

This creates parallel data requirements

Each data requirement involves effort by someone

Effort = Cost





Silo Mentality



Collaboration is not a natural place to be in Construction. Lack of collaboration causes more issues than anything else.





Translating Thought into Action

Taking the first step is always the most challenging. Fear of failure causes inaction.
Inaction allows the competition to accelerate away.

