

An introduction to coBuilder and our BIM4SME award 2017



#### Pete Foster – coBuilder UK

- Worked in Offsite Construction for over 20 years
- Been involved in "BIM" for over 6 years
- Specialising working with Manufacturers
- Loves American Football





#### coBuilder International

- Privately owned construction software company
- International business, headquartered in Norway
- Winner of multiple innovation awards in the UK
- Represented in the UK, Finland, France, Norway
   Germany, Italy and Switzerland
- Biggest office 100+ employees in Bulgaria

- Members of CEN/TC 442 and ISO/TC 49 committees
- Contributor to major international standardisation bodies such as ISO, buildingSMART, CEN and CENELEC
- Developing solutions integrated with Autodesk Revit, Navisworks and ARCHICAD

















## Our mission: to digitise the construction industry





# Best use of BIM for the use of Embedded Data

National College High Speed Rail - Birmingham Campus



## What is Embedded Data?







#### Think of these businesses:







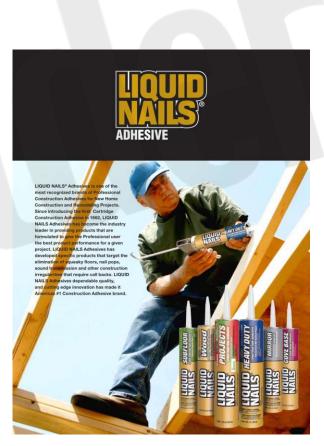


- ◆ Their business is based on: providing clients with standardised, structured data, on-demand data catered to their personal needs.
- Do we have this in the construction industry? Why not?



## The big problem: UNSTRUCTURED DATA









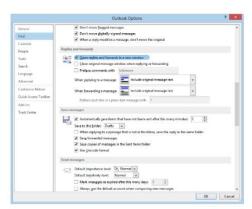


### What is a window anyway?

- If you search for a window in Google you will get many results relevant to window, but they are connected to a different CONTEXT
- In order for MACHINES to understand what we want from them we need to organise data and map it to different CONCEPTS (meanings)
- This how we translate 100101 to meaningful things and the other way around.



Search result: Window Context: Product



Search result: Window Context: Support backlog



Search result: Window Context: Client email



Search result: Window Context: Microsoft OS



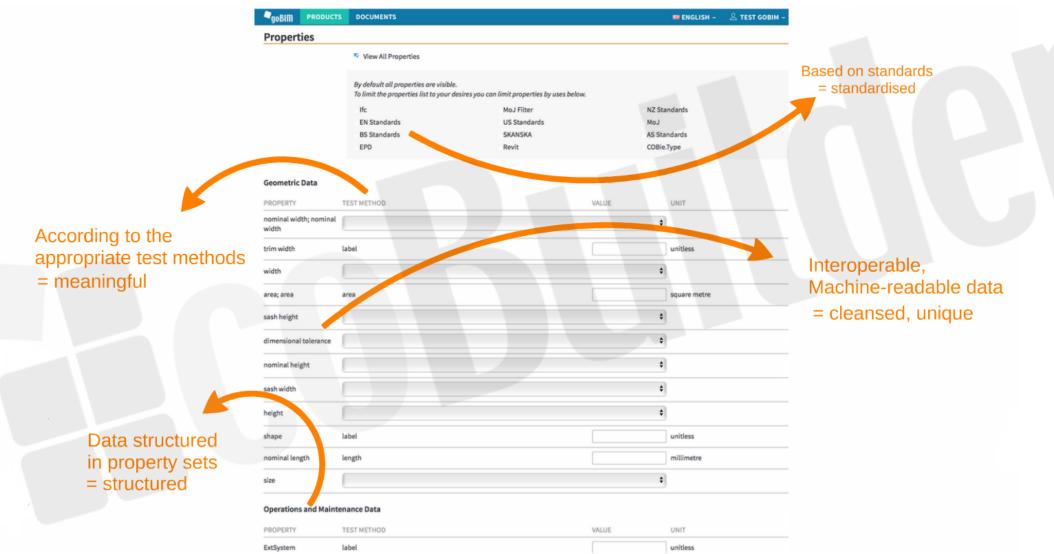
## The big solution: A Product Data Template







#### This is how a coBuilder PDT looks like





## A PDT with data populated by the manufacturer is a single source of truth: A PDS (A Product Data Sheet)

- Version control
- No duplicates
- Always up-to-date
- Integration with objects, merchant DBs etc.
- Automated translations

= up to 25% reduction in the cost for data management

#### Veka matrix 70

#### Classification:

coBuilder – Window Uniclass 2 – Ss 25 30 95

#### Pset 1

- Assessment date = 01,06,2017
- Assessment condition = hEN 15694
- Article number = 380585813

#### Pset 2

- Type designator = BGH08
- Special instructions = External use only
- Construction method = Fixed window
- Lifting strength = 7
- · Point of contact

#### Pset 3

Environmental impact indicators

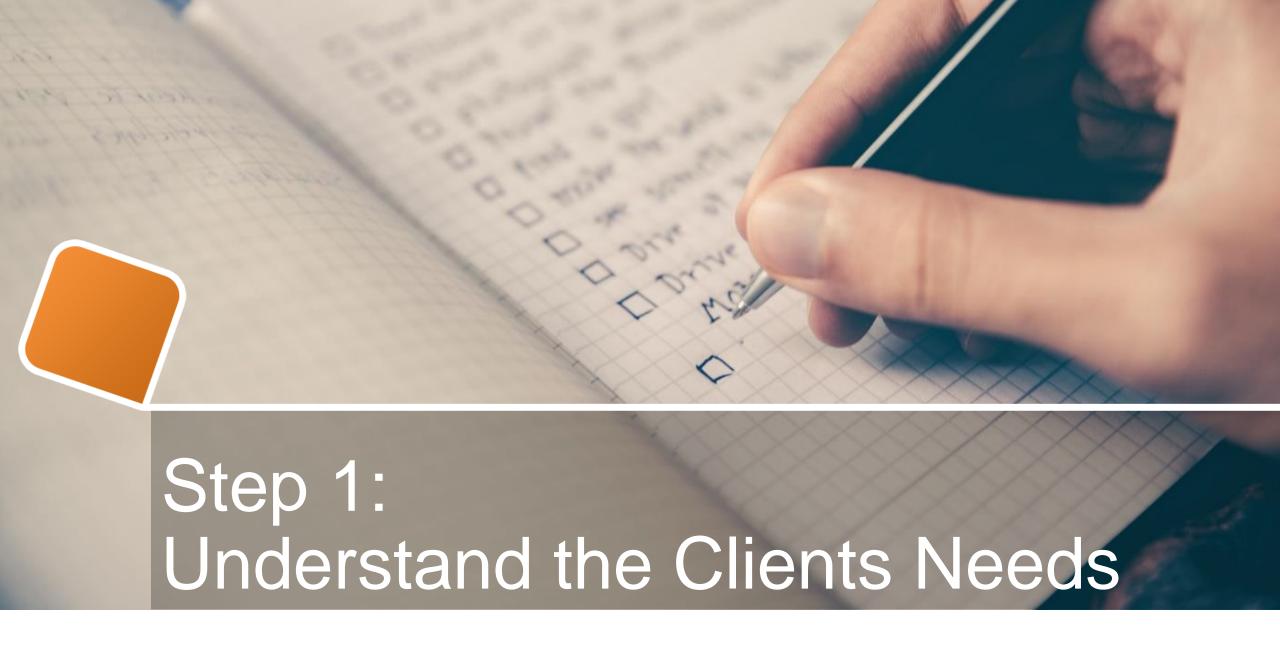
#### **Manufactured Product**





## Delivery and Outcomes









# Step 2 ProductXchange... Set the requirements

















#### Conclusion

- Collect the asset data (COBie) and product information (O&M product PDFs) throughout the construction phase of the 'National College for High Speed Rail' project.
- Deliver an accurate and validated as-built COBie sheet based on the client's data requirements
- Deliver a full repository of product-related PDFs in the O&M manual, in the required structure and embedded as-built product data, into open formats.
- Ensure that all stakeholders could benefit from accurate, paperless construction product data – ready to be transparently shared with anyone who might need it.



## **THANK YOU!**



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