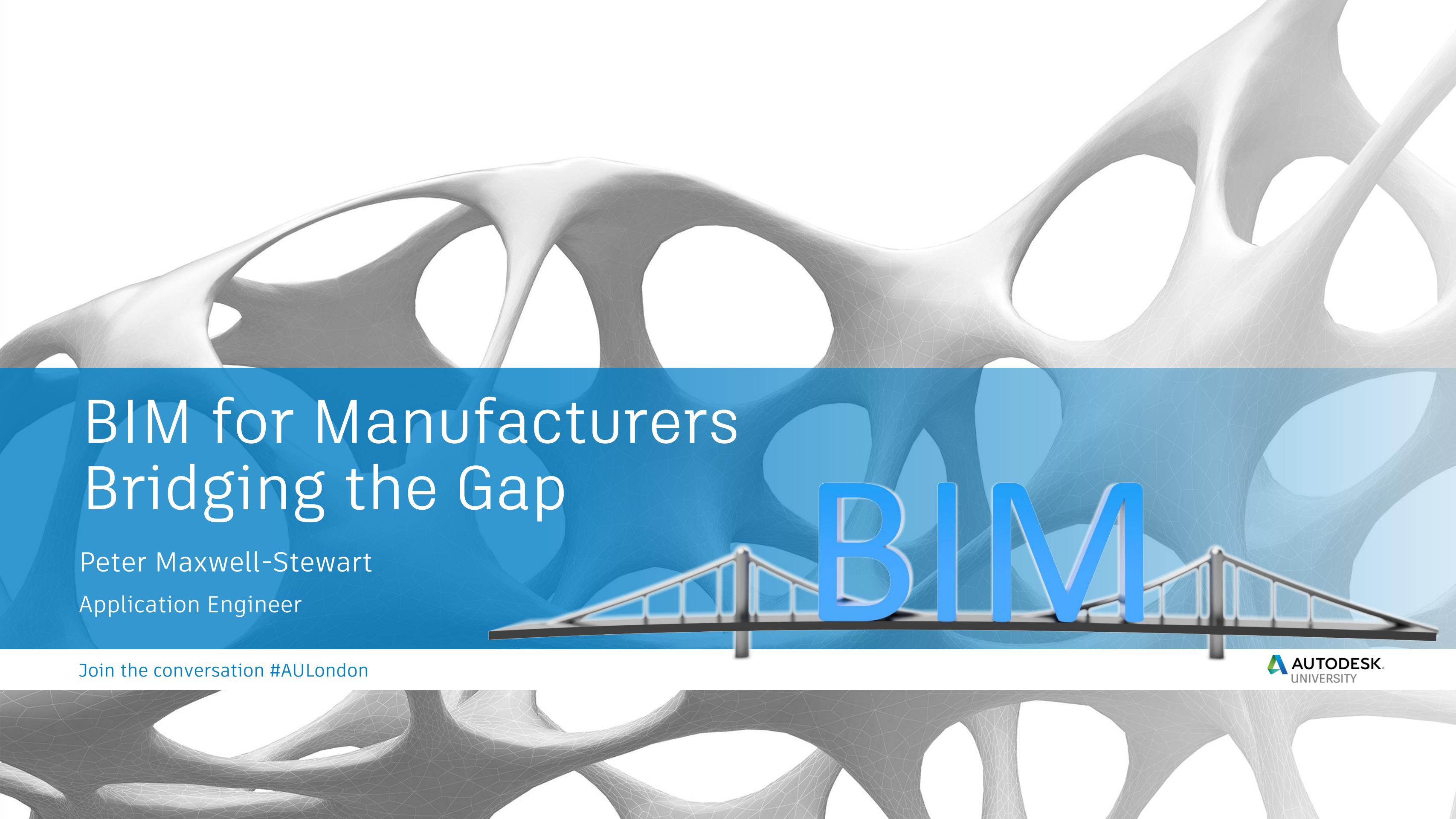


BIM for Manufacturers Bridging the Gap

Peter Maxwell-Stewart
Application Engineer

Join the conversation #AULondon



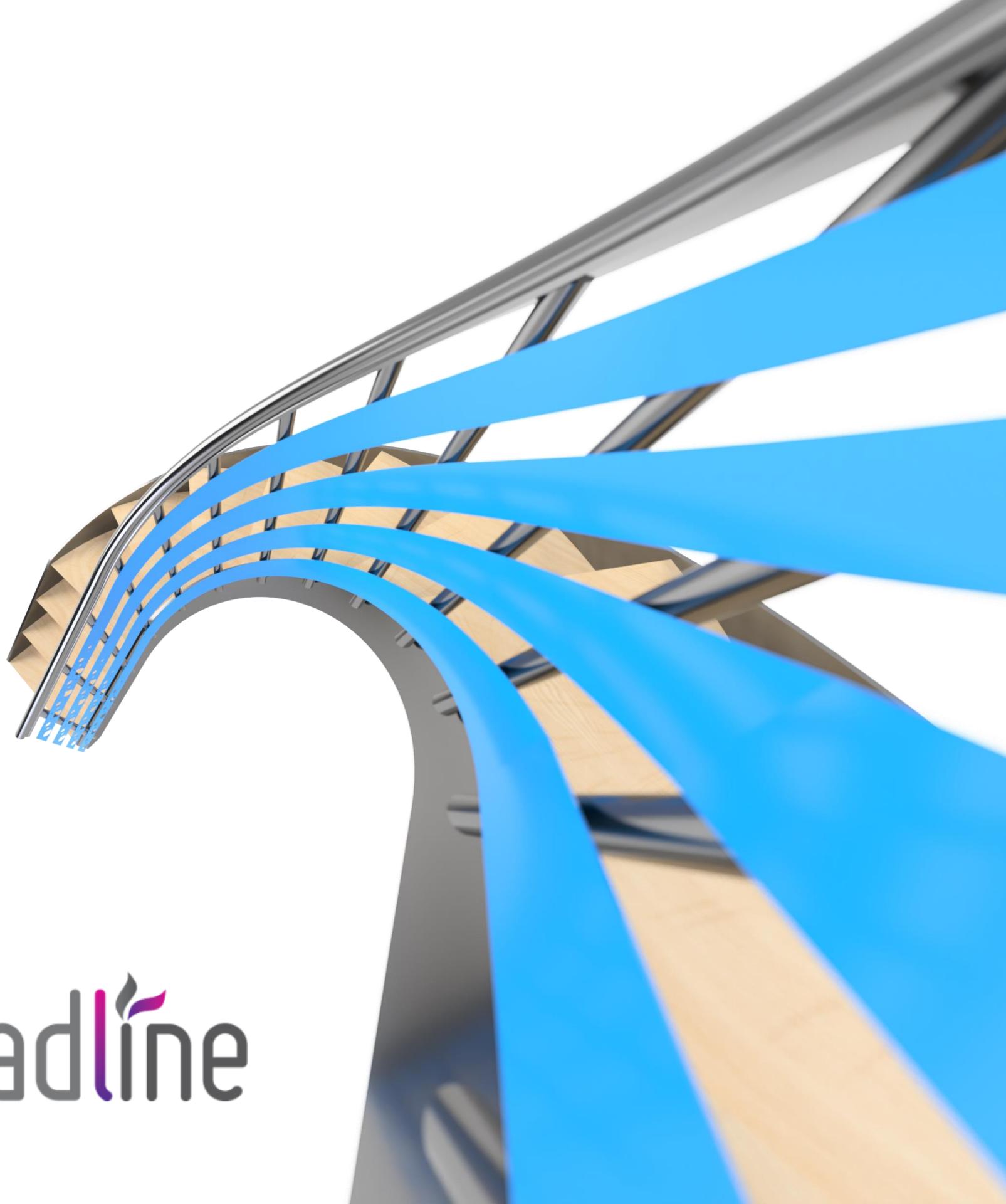
BIM

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About the speaker

Peter Maxwell-Stewart

- Application Engineer with Cadline for last 18 Months
- Previously CAD and Technical Manager supplying building products to the National House Builders
- Autodesk Inventor Certified Professional



cadline

Workflow overview

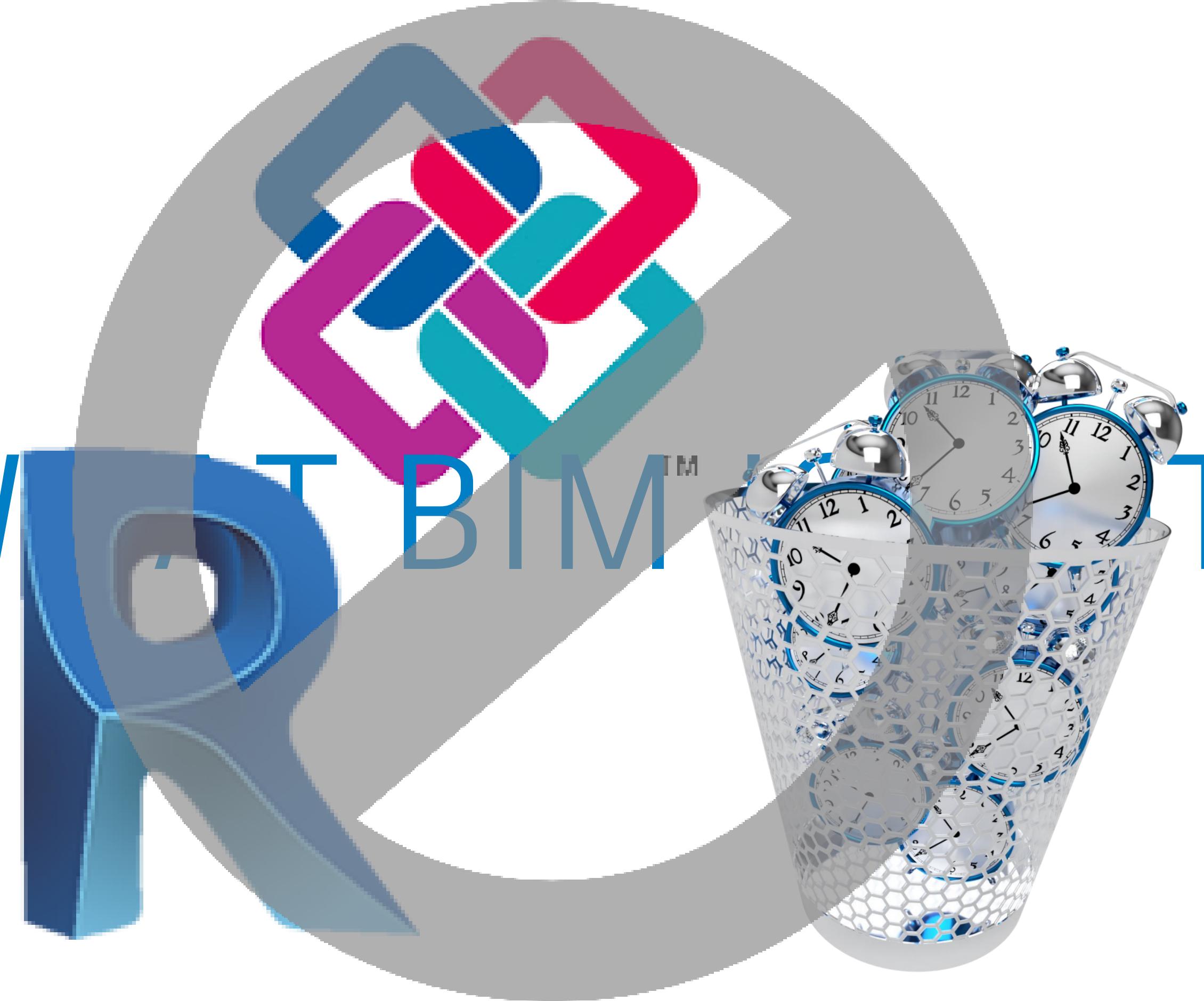
Help bridge the BIM gap between MFG and AEC by using both Revit and Inventor to create and publish BIM level 2 compliant models

Learning Objectives

- Preparing views for Inventor
- Using Revit geometry to create manufacturable content
- Publishing BIM level2 compliant models
- Republishing data back to Revit using the project co-ordinates



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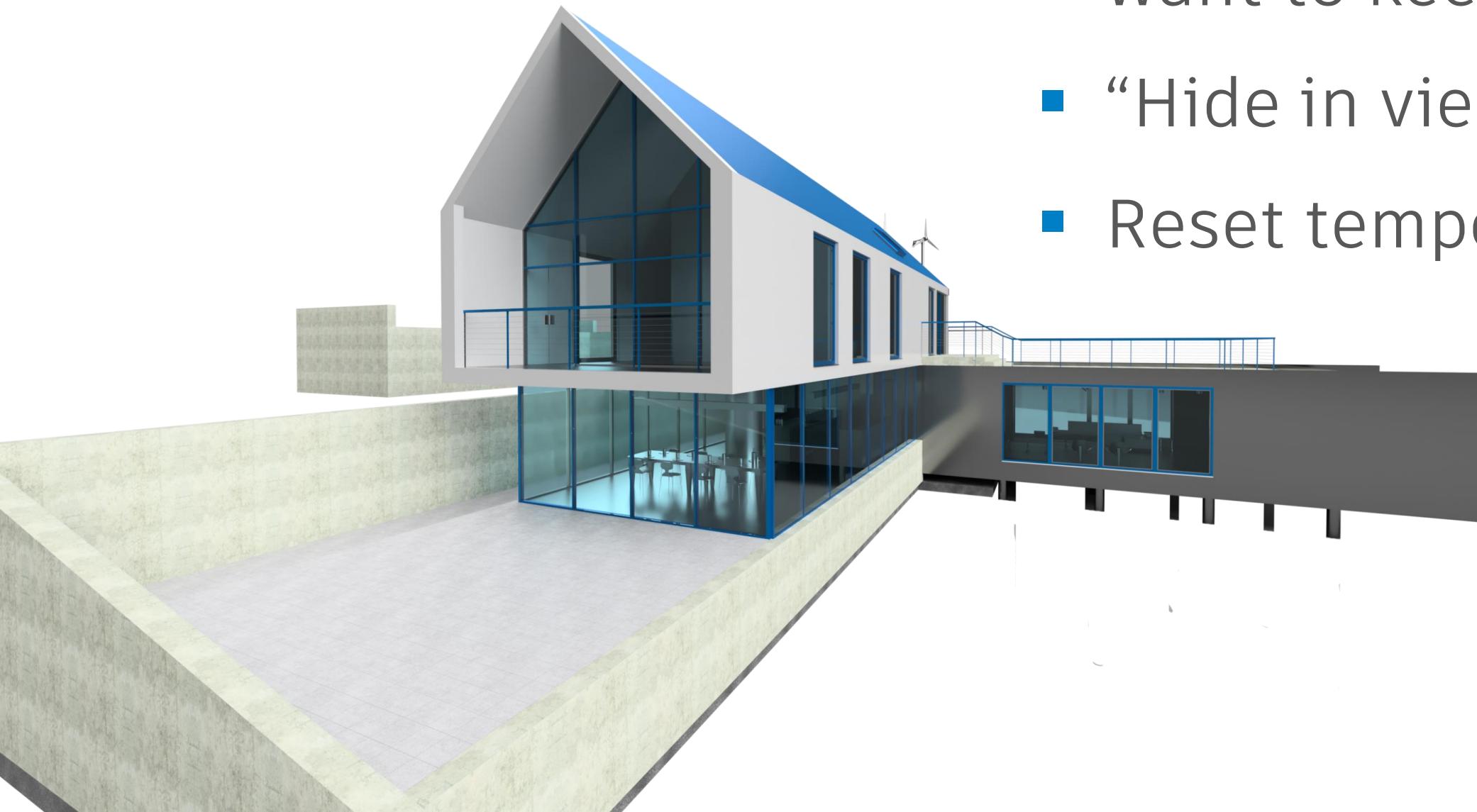
What is BIM in the UK?

- Idea for better collaboration
- April 2016 Government Mandate
- PAS1192-2
- Great Marketing Tool
- Early specification
- Once specified its hard to change
- Longevity – Entire lifetime of building



The workflow

Preparing the model

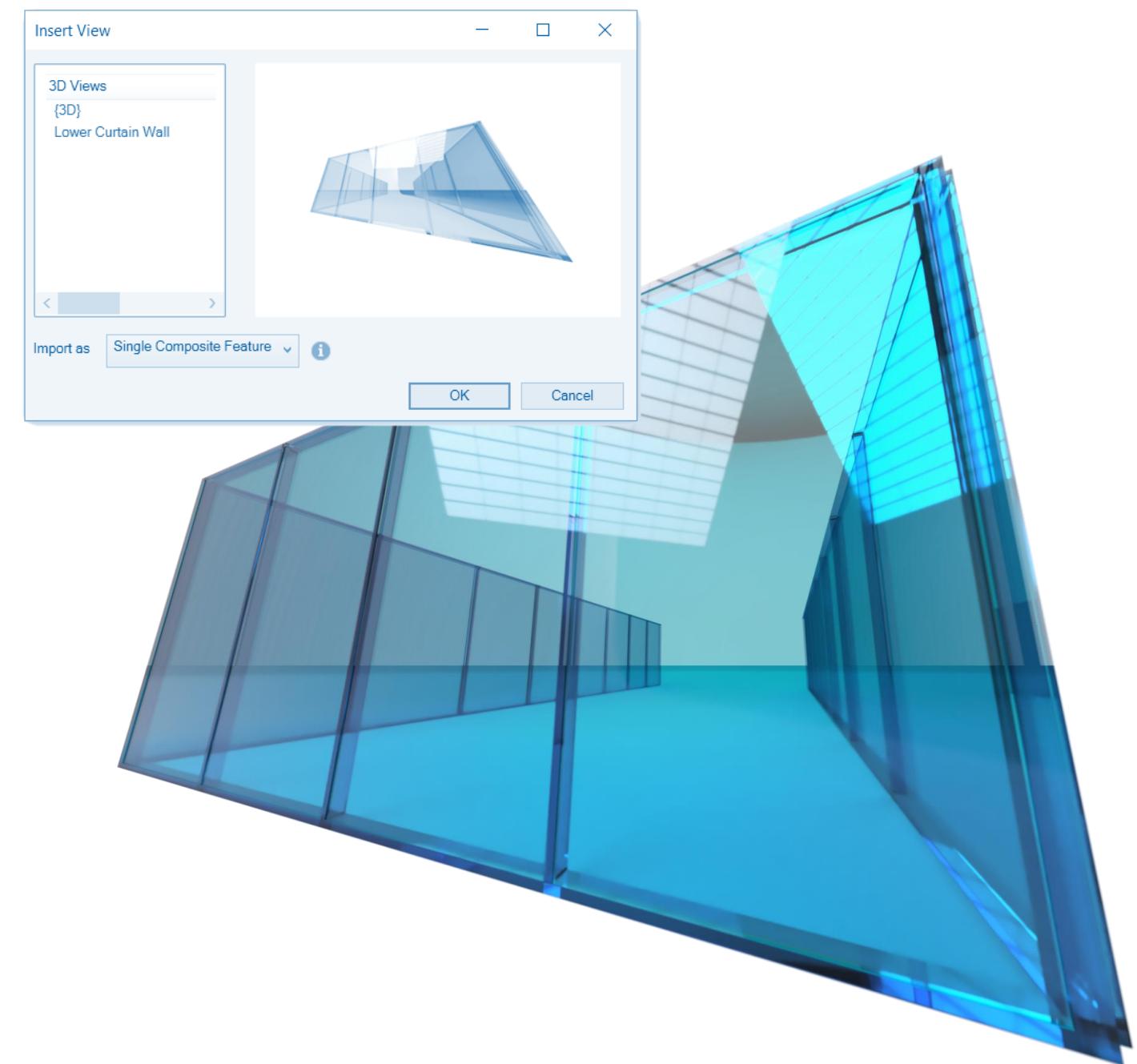


- Duplicate a 3D view and rename it
- Temporarily hide the elements you want to keep
- “Hide in view” everything else
- Reset temporarily hidden elements

Bring into Inventor



- Open the .RVT in Inventor
- Select the 3D view you created
- Import either as multibody solid or composites
- Use Inventor modelling process to rebuild a technically accurate model
- Frame Generator and Sheet Metal



BIM levels of detail

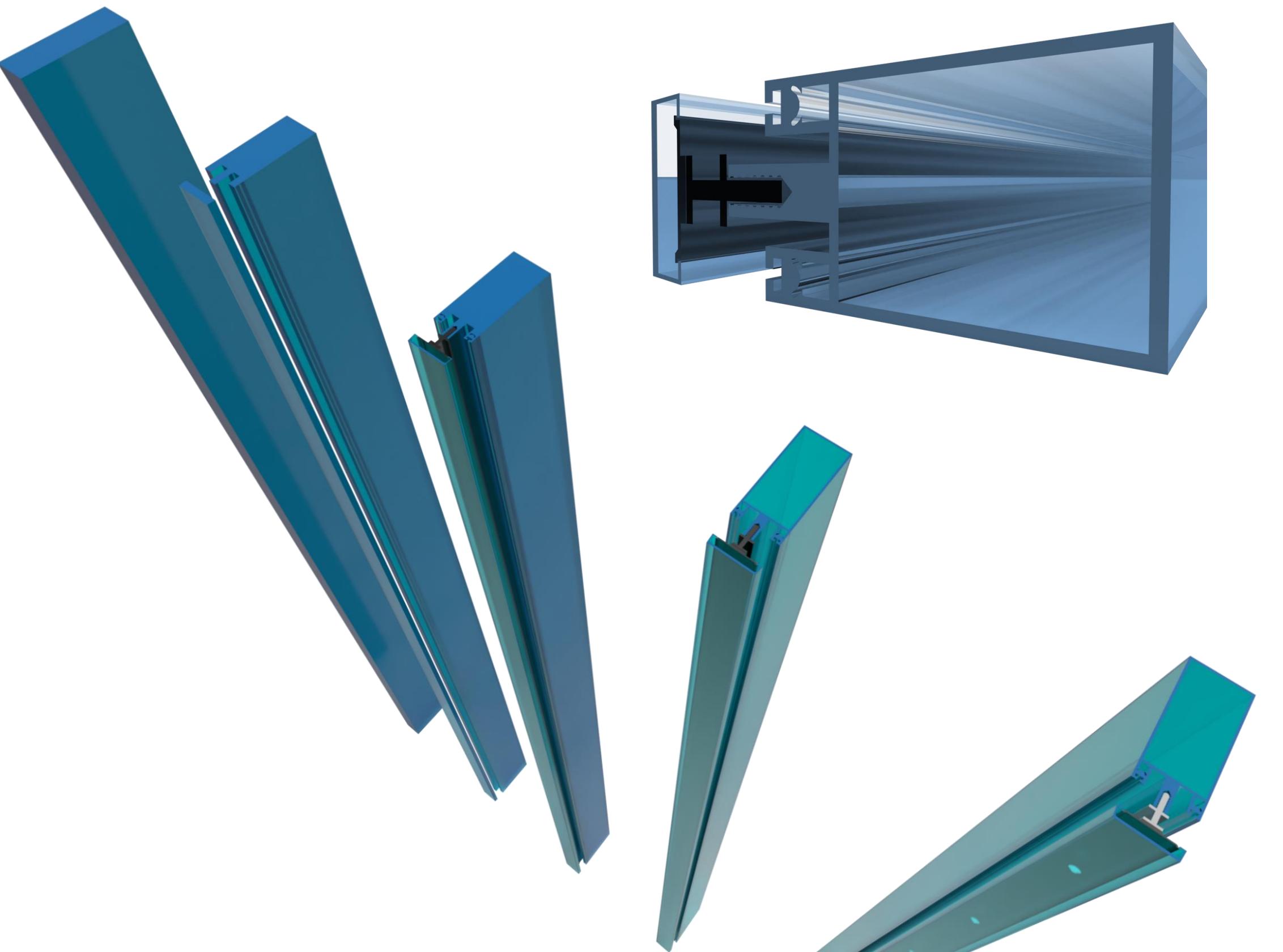
LOD 100

LOD 200

LOD 300

LOD 400

LOD 500



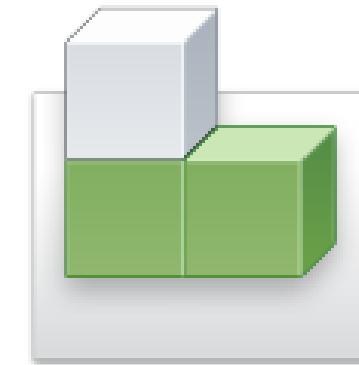
The *important* bit

- COBie parameters
(Construction Operations Building Information Exchange)
- Uniclass Classification
- Metadata
- BIM Level 2 Compliancy

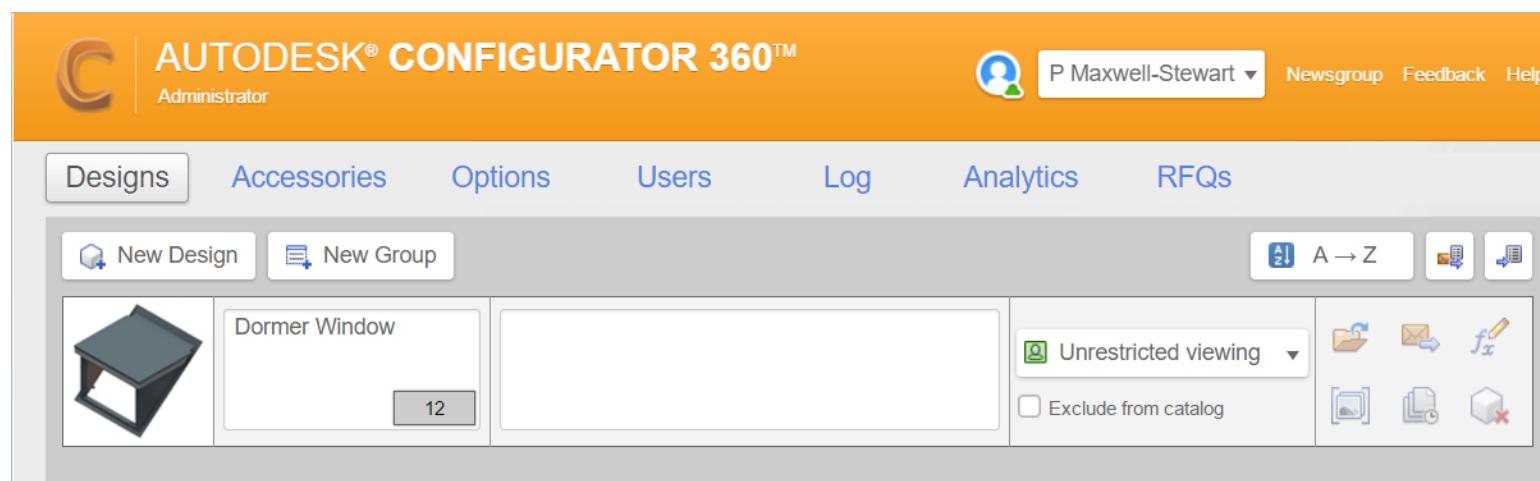


Republishing the model

- What file type to choose?
- Cutting the building
- Emitting Light
- Other options available?
- Configurator 360



.RFA



.IFC





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Make anything.