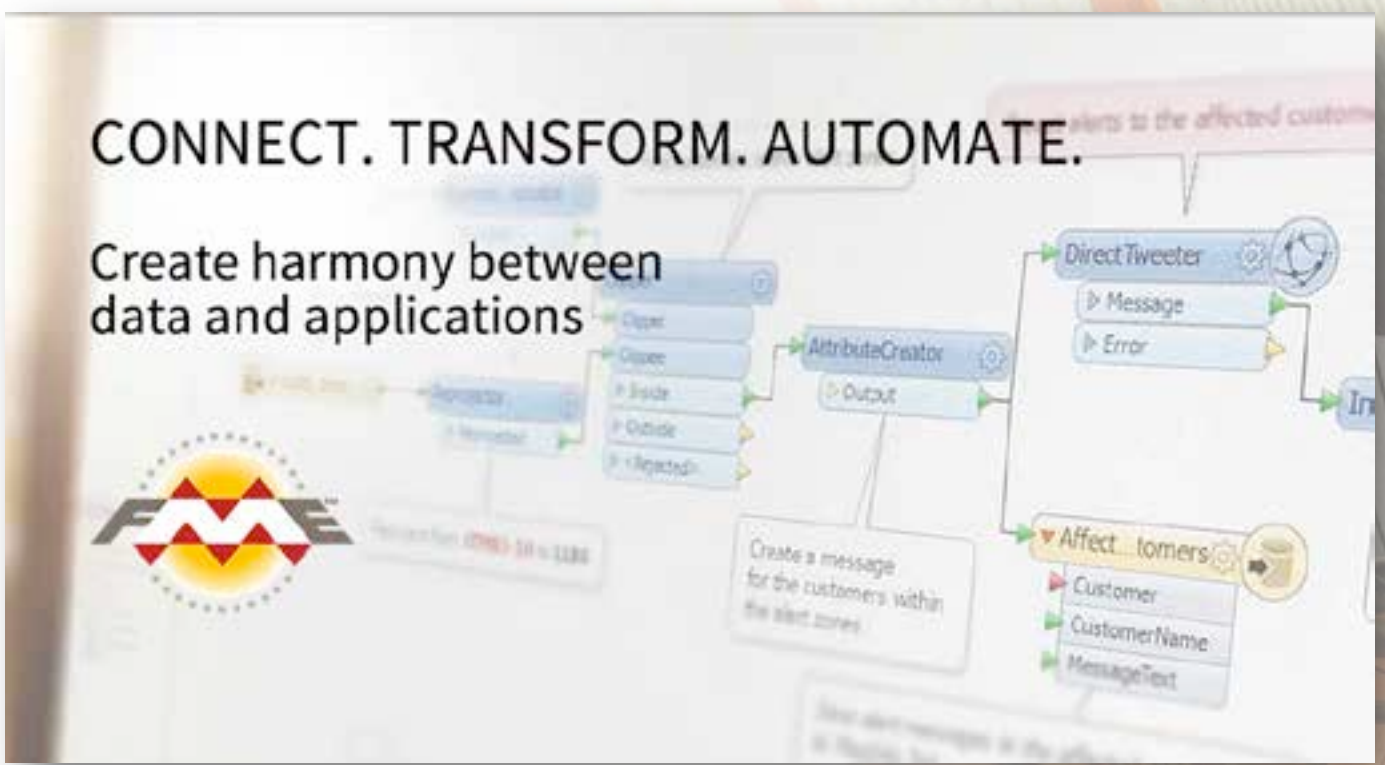
Reading Building Information Modeling (BIM) Data into ArcGIS

July 13, 2014

SAFE SOFTWARE

What we do


CONNECT. TRANSFORM. AUTOMATE.
Create harmony between data and applications
AttributeCreator
Output
DirectTweeter
Message
Error
Create a message for the customers within the alert zones
Customer
CustomerName
MessageText

Data Interoperability Extension

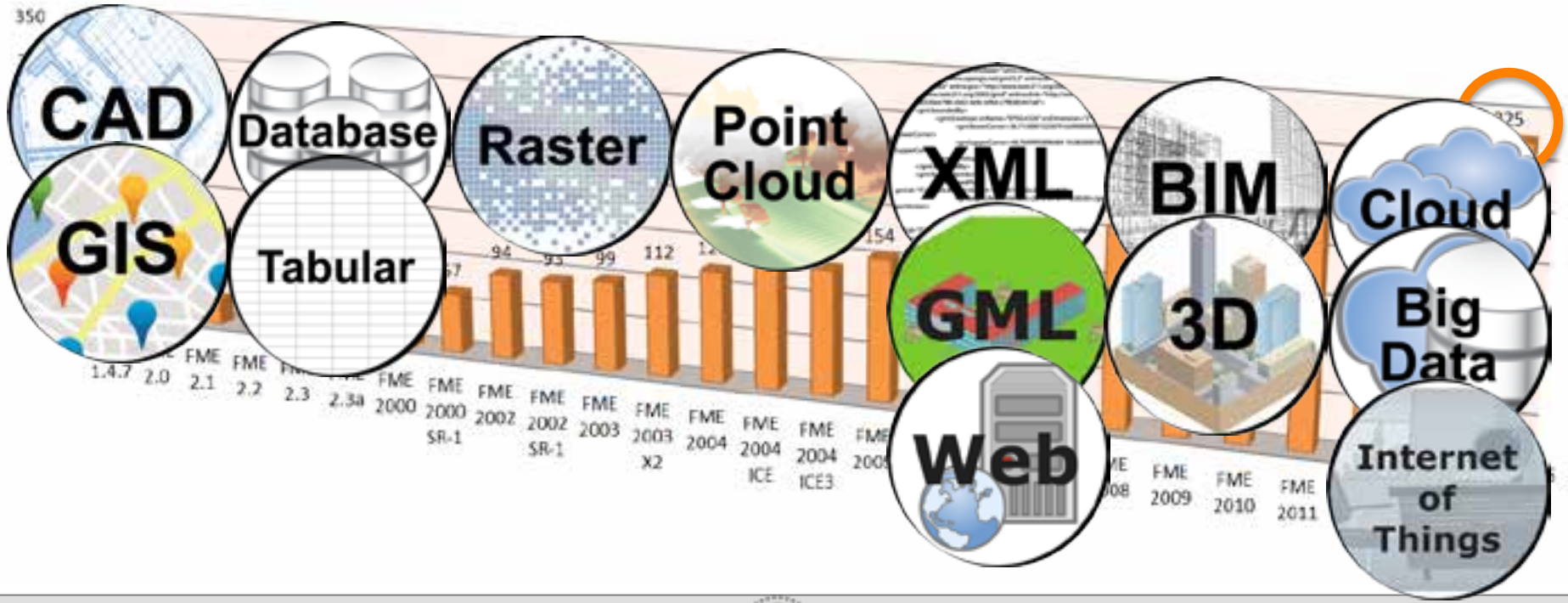
Why we do what we do

- Data should be free to use wherever, whenever and however it's needed.
- Information shouldn't be chained up inside systems, applications, or formats.
- Time is better spent making decisions than fighting with data.

20 years of FME formats

An explosion of formats!

Always more Always faster.



1 Why extract info from BIM?

Visualization

2

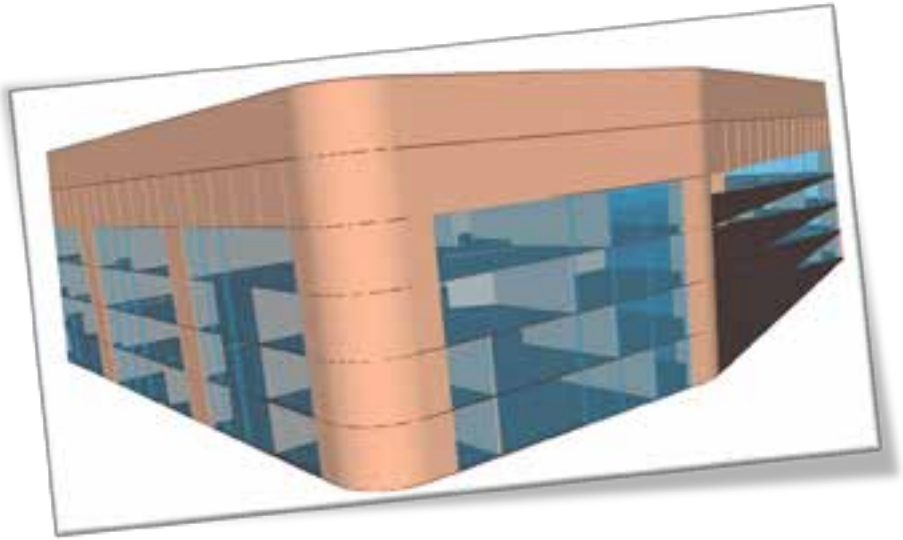
Why extract info from BIM?

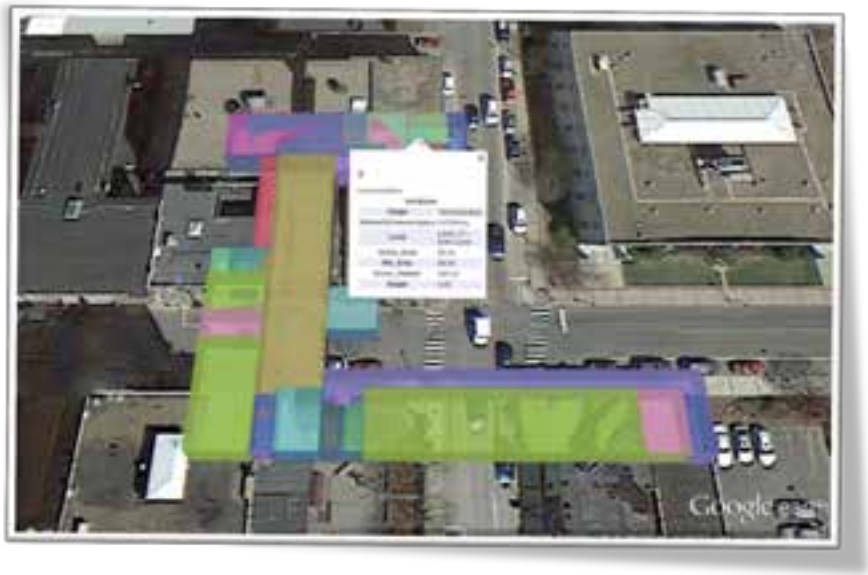
Routing

3

Why extract info from BIM?

Manage spaces

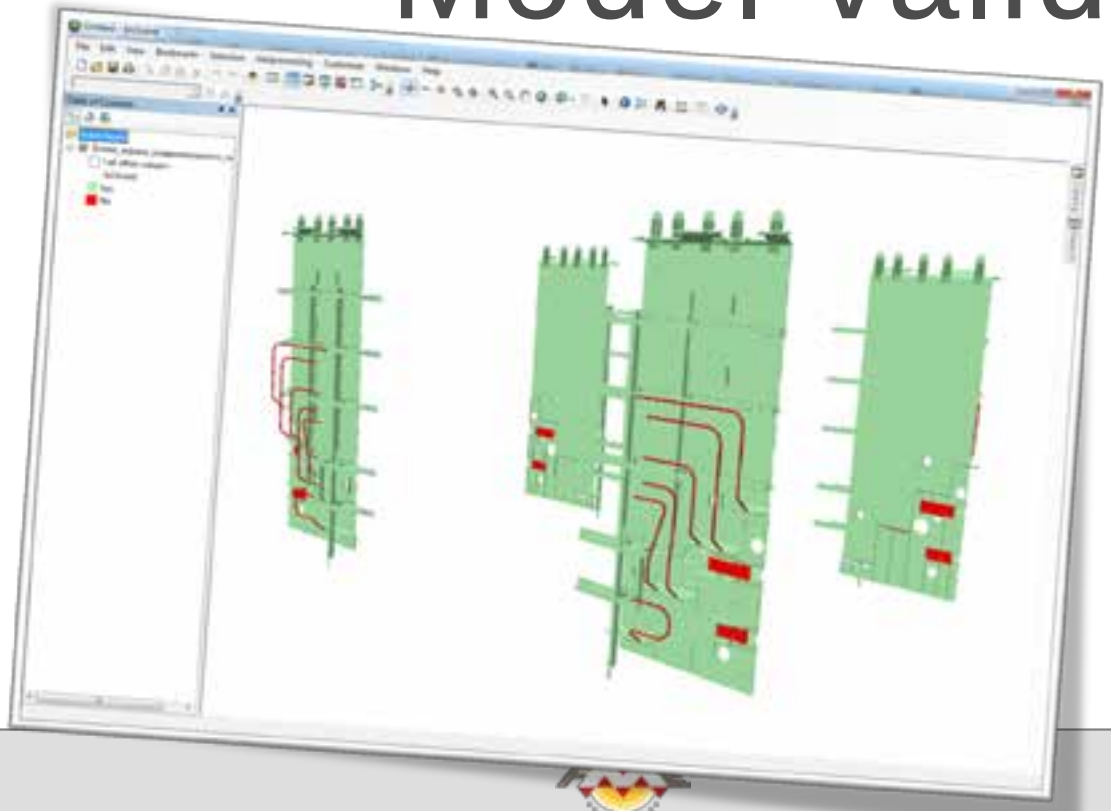




4

Why extract info from BIM?

Model validation



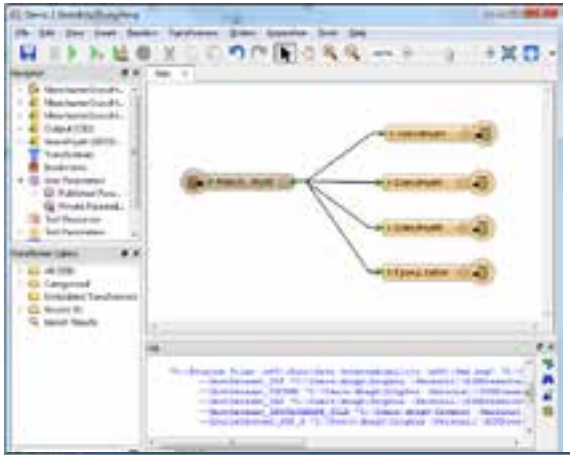
HOK Scenarios

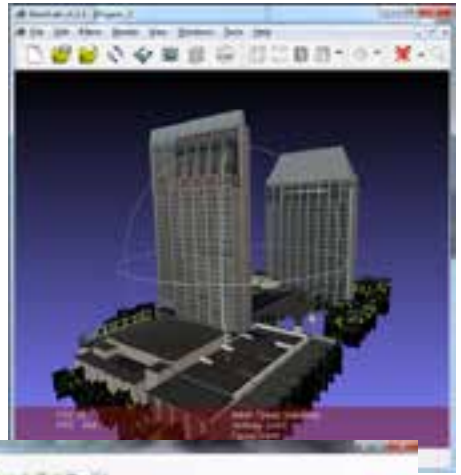
- Model checking
- Hierarchical DWG export
- Intelligent PDF export
- Enterprise wide sharing

Greg Schleusner
Director of BuildingSMART Innovation

Christopher Zoog
BuildingSMART team member

Demo 1: Sketchup to everything

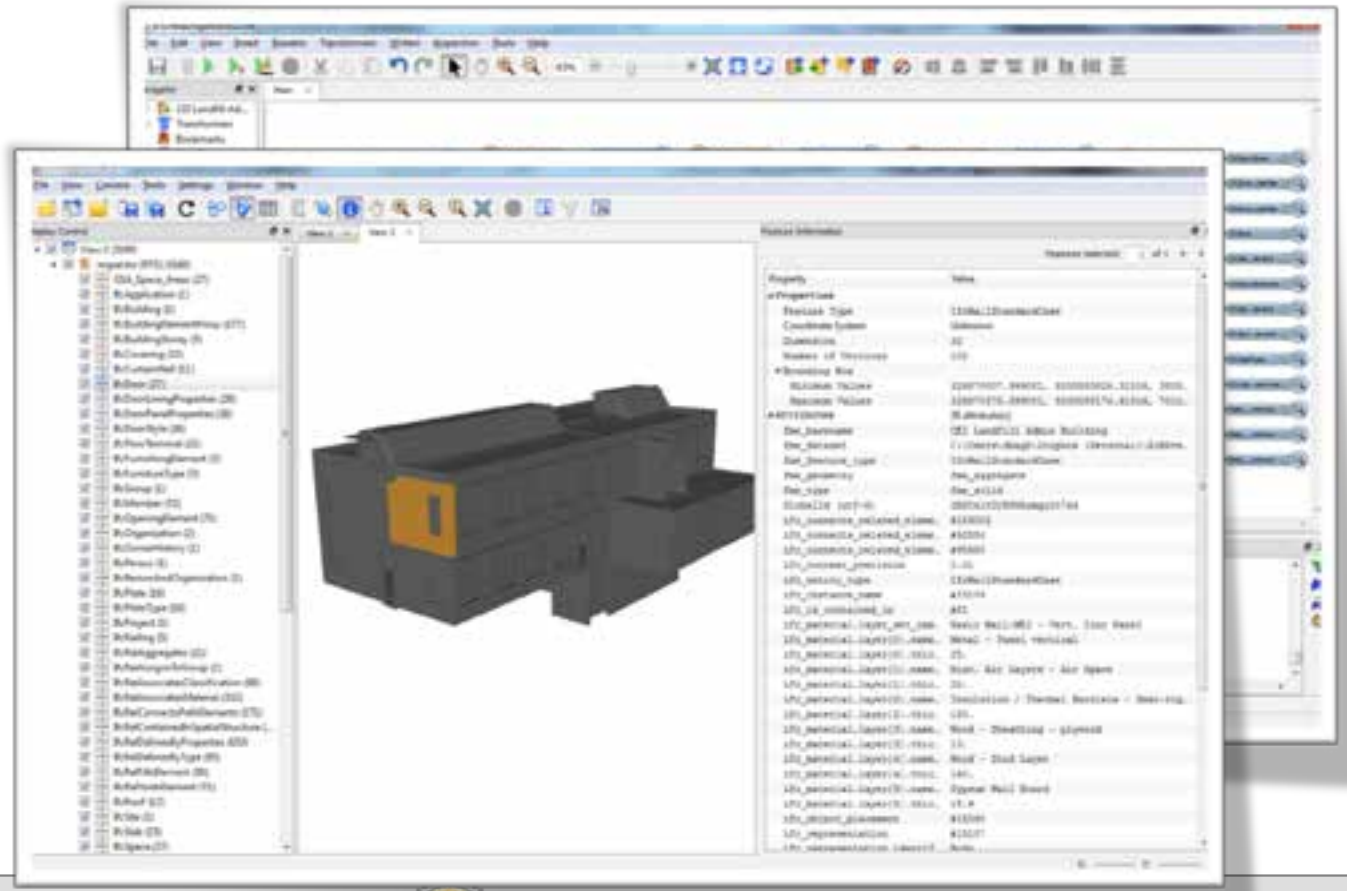




Two reader modes for BIM formats

Before FME 2014

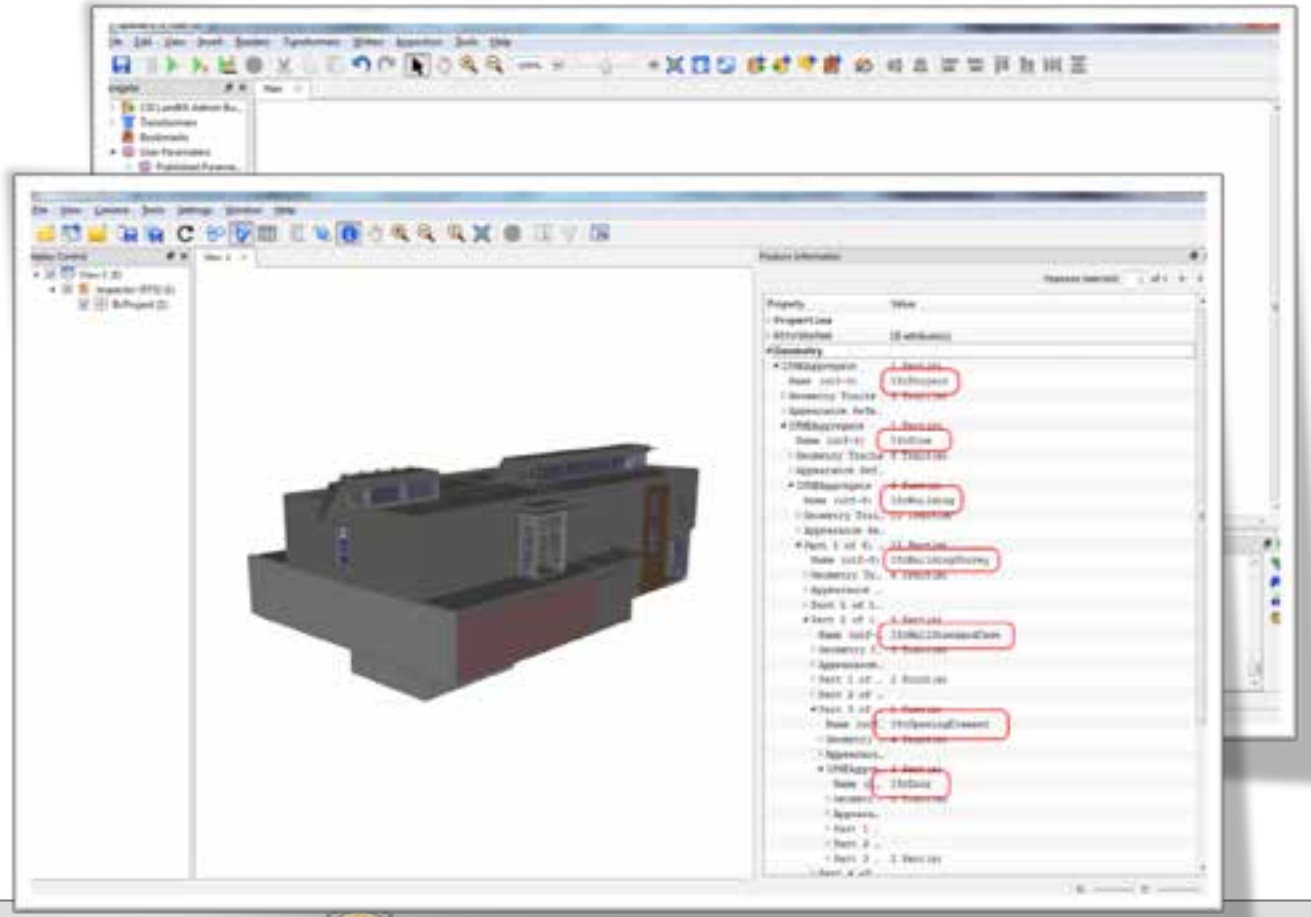
- Relational model



Two reader modes for BIM formats

With FME 2014

- Hierarchical model
- GQuery



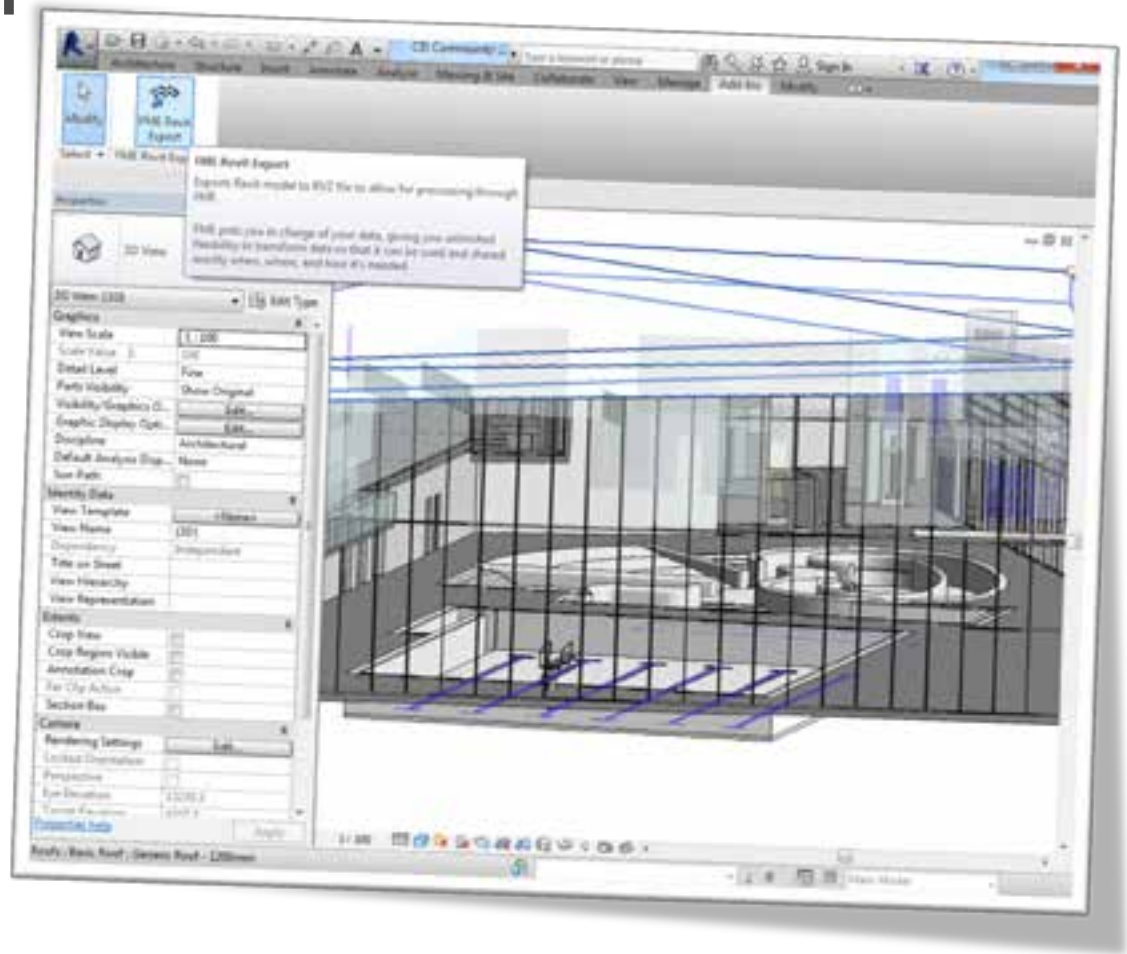
Demo 2: Texture Update

Revit Exporter

- Comes with FME 2014 or higher (64-bit)

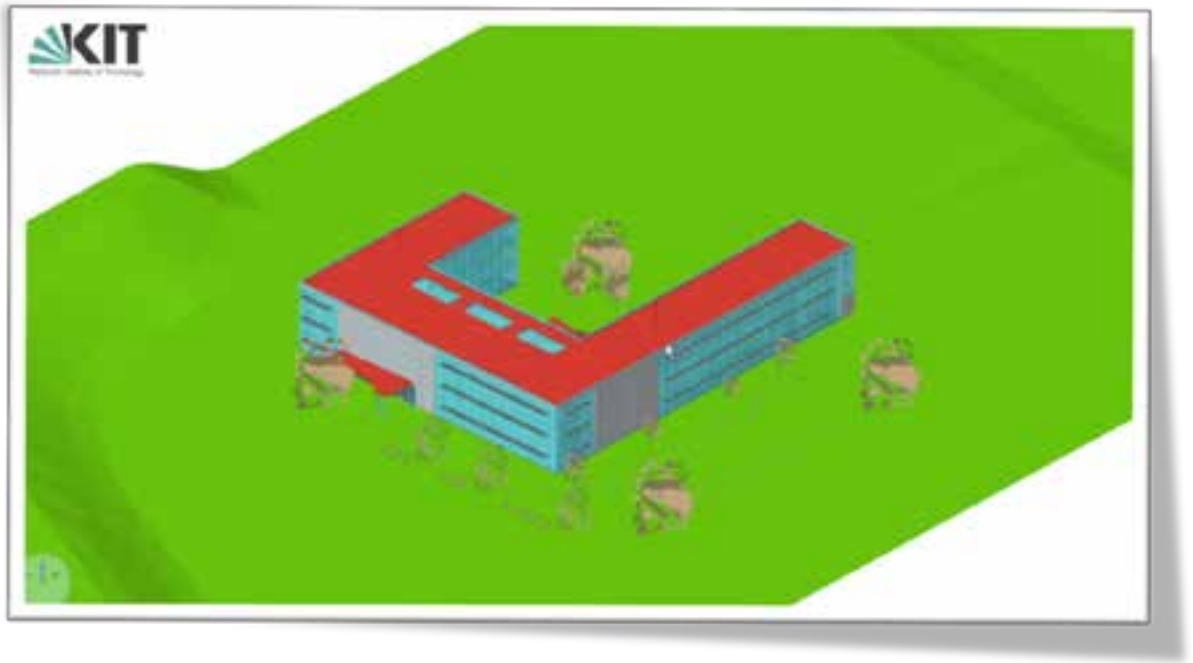
OR

- Standalone version: www.safe.com/revit



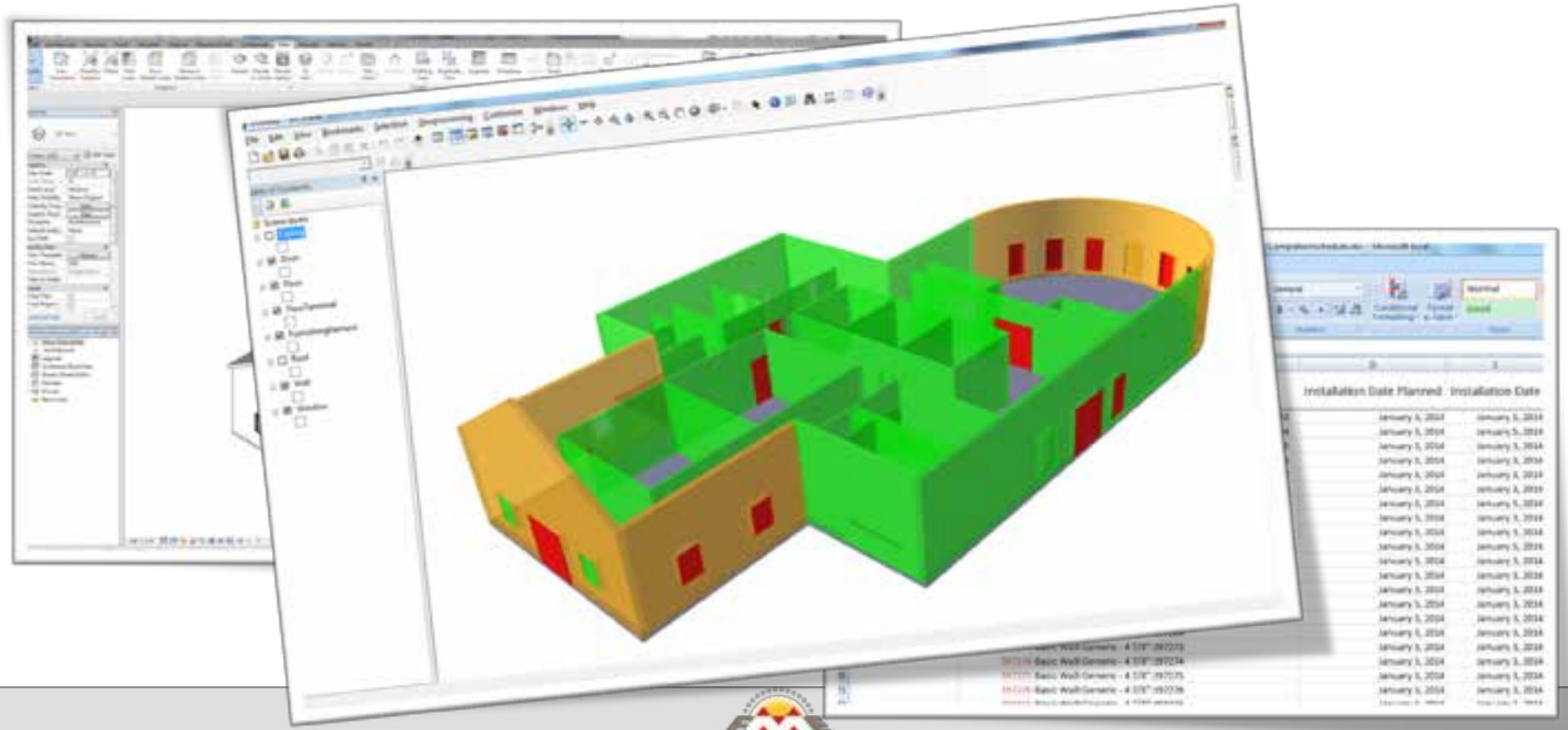
Demo 3:

Revit Spaces to Geodatabase

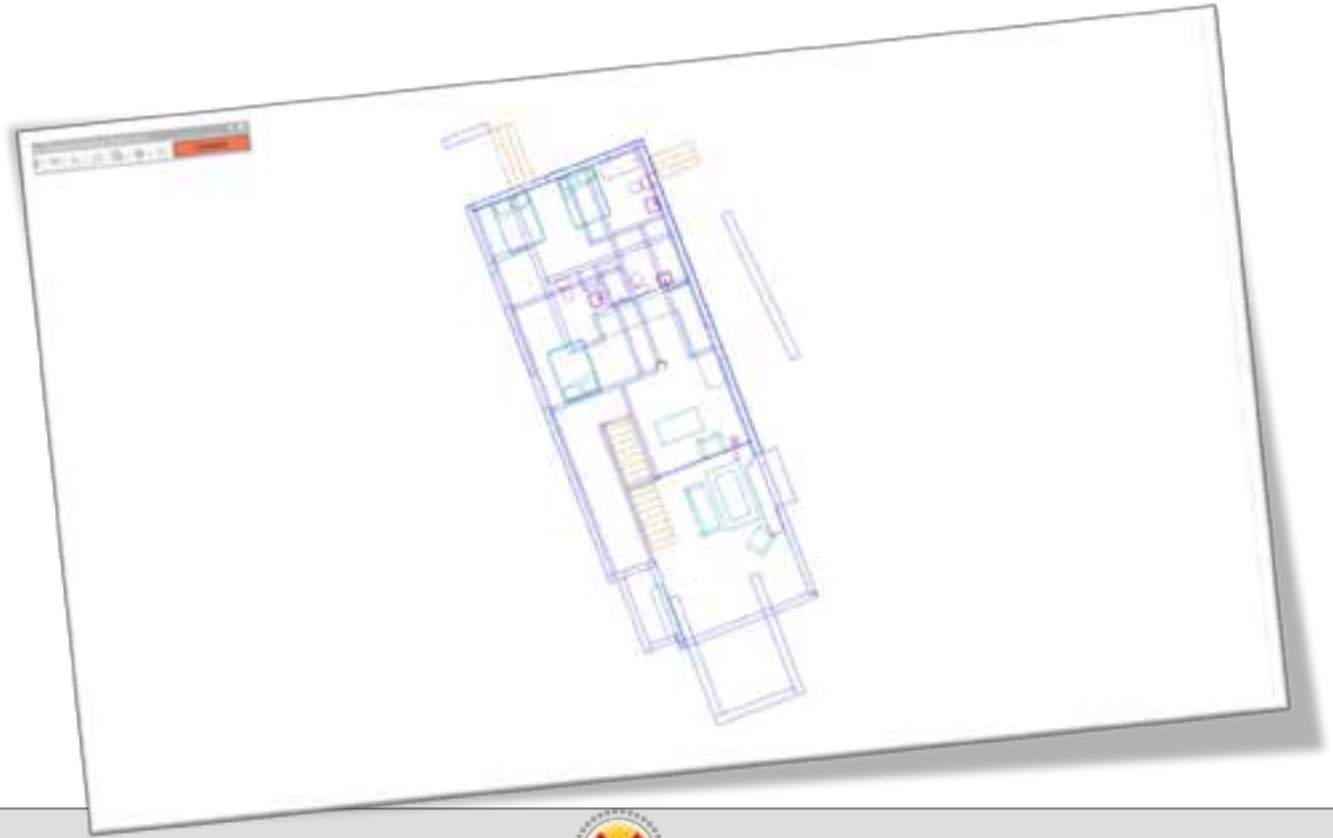


Demo 4:

Revit and Excel to Geodatabase

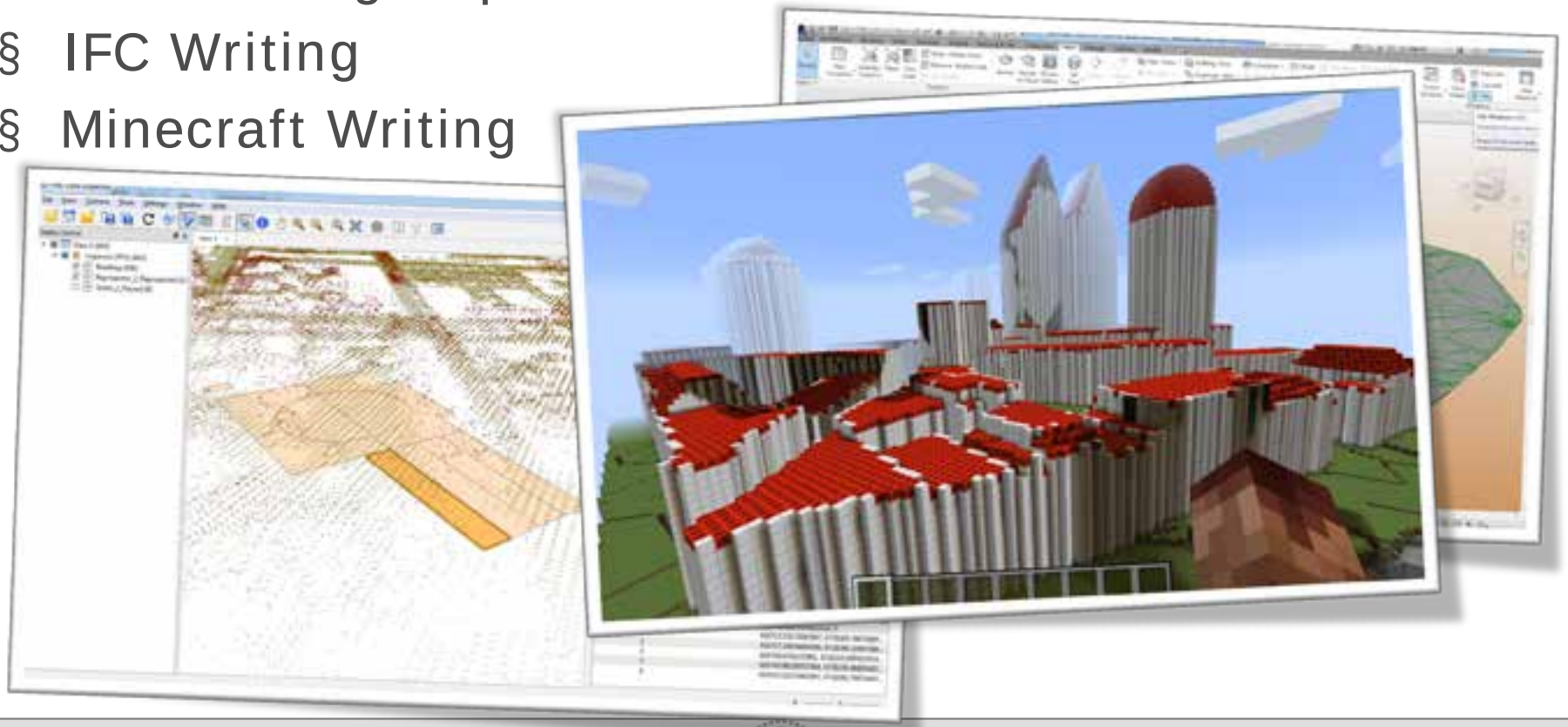


Demo 5:
Revit floorplans directly into ArcGIS and PDF



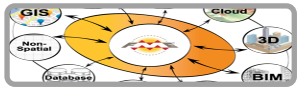
What's next?

- IFC Reading Improvements
- IFC Writing
- Minecraft Writing



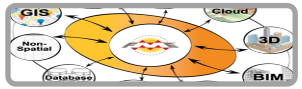
Useful links

Save the date: July 23



5 Tips to Become an Esri Geodatabase Power User

Online courses:



Transforming Data Using Extract, Transform, and Load Processes

Controlling Data Translations Using Extract, Transform, and Load Processes

Thank you!

- Safe Software
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  - (604) 501-9985 ext. 278