IPHA Technical Seminar 2015

October 21-22, Malmö - Sweden

i-Theses FloorOffice and BIM

what it is and what it can be



Wouter Veelaert CEO – R&D

i-Theses (Belgium)





Building Information Modeling??

- "BIM is a process for building <u>design</u>. It is a way to <u>design</u>, <u>construct</u>, and <u>operate buildings</u> that involves creating and using <u>intelligent 3D models</u>."
- "BIM is an intelligent model-based process that provides value across the lifecycle of a project. Any project."

Building Information Modeling??

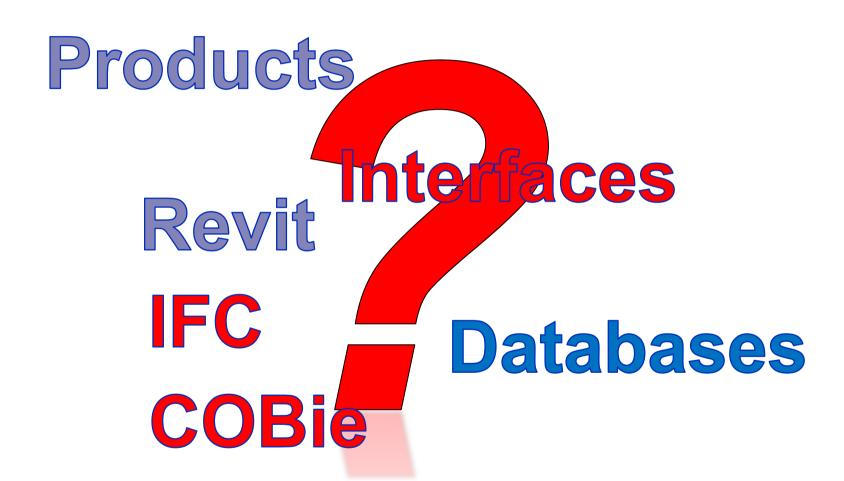
Design

Operate

- "BIM is a process for oil Sols Ich Ich way to design, construct, and operate buildings that involves creating and using intelligent 3DmcHes "Cycle"
- "BIM is an intelligent model-based process that provides value across the lifecycle of a project. Any project."

Model Project Intelligent

Tools??



Goals??

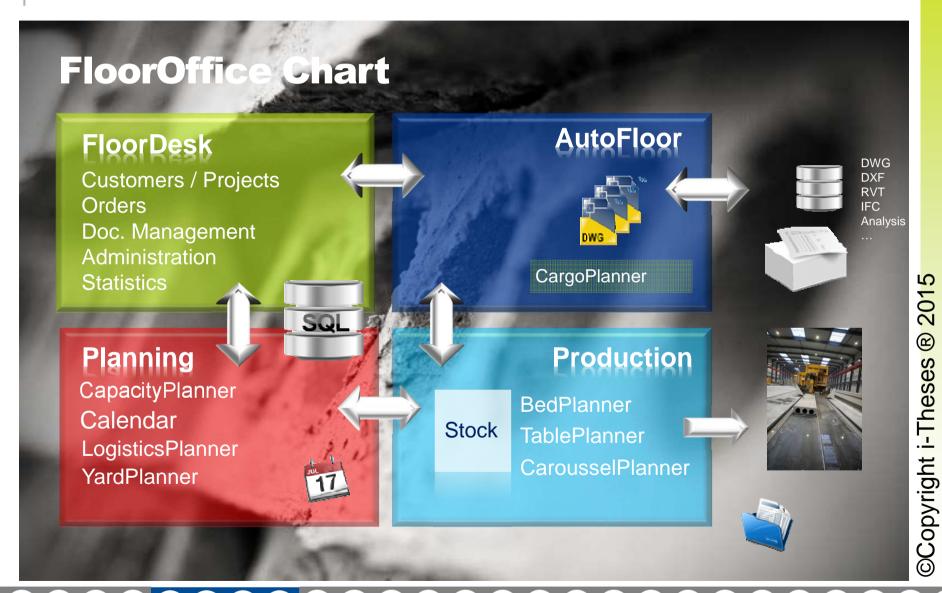
- Exchange data
- Visualization
 - Clash detection
- Multi-platform
- Multi-specialties
- Multi-format

- Which stages?
- Which data?
- Which detail?

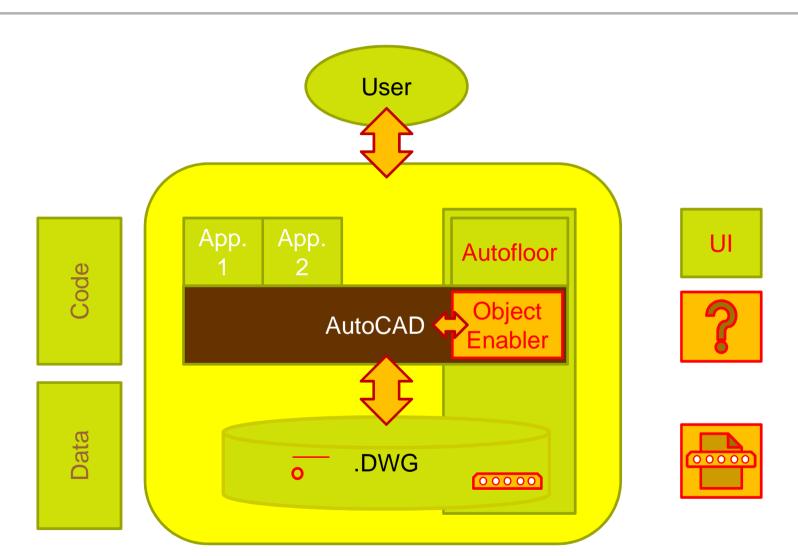
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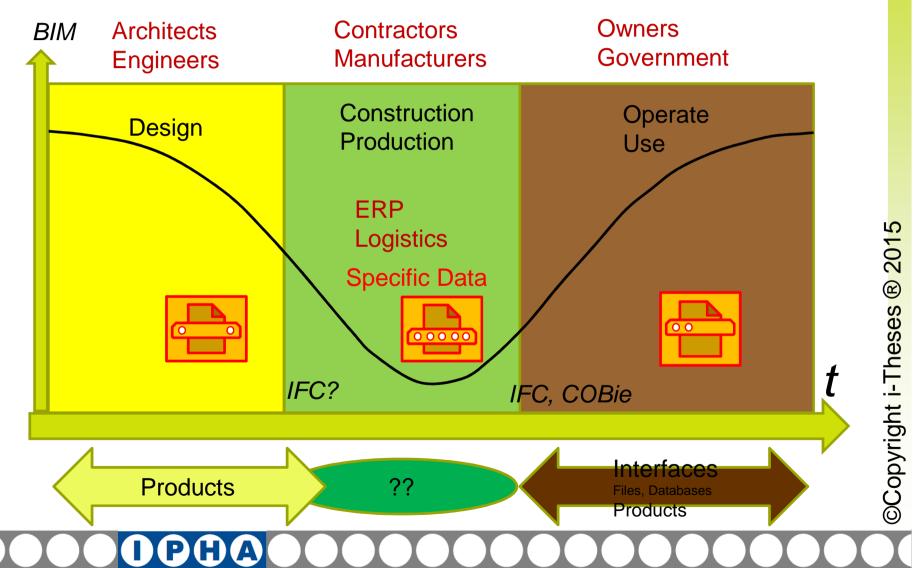
i-Theses...



i-Theses... Object Enablers



i-Theses...



i-Theses...

- Production : specific data!
- = our differentiation
- ≠ product
- # database

(always loss of information)

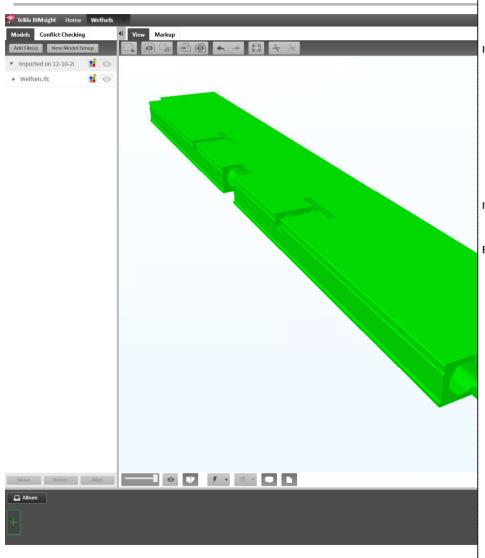
BTW

1 product

1 database

commercially interesting?

... - IFC



Color: ReferenceObject GUID: 1JhHGl0002\$Z4qC3CuDJKt lfc File Format: Common Type: Beam Geometric Classification: Solid Volume: 1.7 m3 Ifc2X3Product Welfsel Product Name: Product Description: WXT320-1200 Product Object Type: WXT320-1200 Owning User: 13-10-2014 07:28:10 Creation Date: Change Action: NoChange State: Undefined Application: IfcMaterial CONCRETE/C45/55 Material: BaseQuantities Length: 8670 mm OuterSurfaceArea: 0.00 m2 NetVolume: 1.7 m3 4.008 t NetWeight: Net weight: 4.008 t Gross weight: 3.548 t Weight: 3.548 t Net volume: 1.7 m3 Gross volume: 1.5 m3 Gross footprint area: 9.37 m2 0.00 m2 Area per tons: Net surface area: 51.08 m2 0.00 m2 Gross area: Height: 320 mm Width: 1196 mm

Settings Help Center — 🗇 🕽

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L200 L4 07:28:10

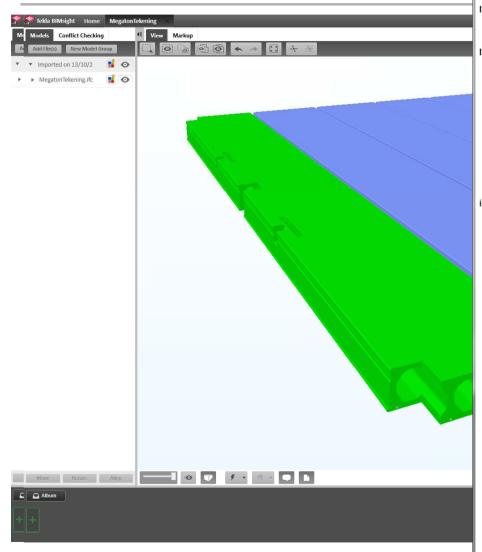
E/C45/55



8670 mm

Length:

i-Theses - IFC



GUID: 3FIGOIkHfEe3bzbkH7stfQ File Format: lfc Slab Common Type: Geometric Classification: Solid 1.6 m3 Volume: IfcArbitraryClosedProfile s Help Center — Profile: 2 Ifc2X3Product 2 Product Name: Product Description: 2 Product Object Type: Owning User: Robin@i-ThesesCAD AutoFloor 12/10/2015 16:41:14 Creation Date: Change Action: NoChange State: Undefined Application: i-ThesesCAD AutoFloor (AutoFloor v20.24 (x6i-Theses TSB PlateBase Area: AutoFloor v20.24 (x64 Number: UniqueNumber: Locked: False Type: WXT Width: 1200 mm Standard Width: 1200 mm 320 mm Thickness: Length: 8670 mm Weight: 4.073 t Cargo: 1 Stack: StackOrder: Level: 7 Rotated: False Deadline: 0 Phase: Adjust Positions: False T5 Reinforcement Value: Reinforcement Key: Reinforcement Description:

8670 mm

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PresentationLayers

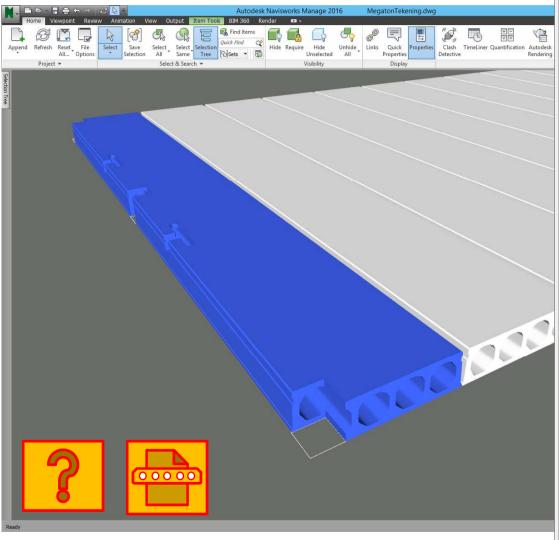
Reinforcement Length:

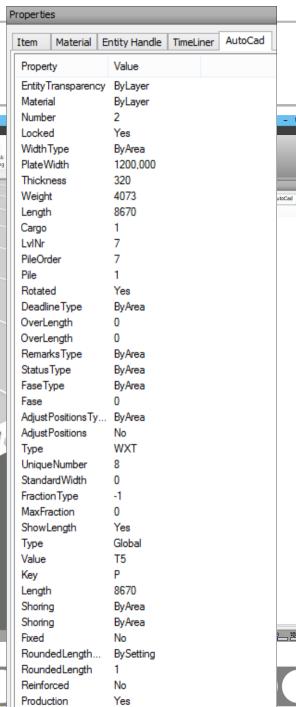
Layer: IfcSlab

IFC

- Visualization ✓
- Intelligence ?
- Always loss of intelligence
- Always restrictions
- No guarantee about data

i-Theses - Navisworks

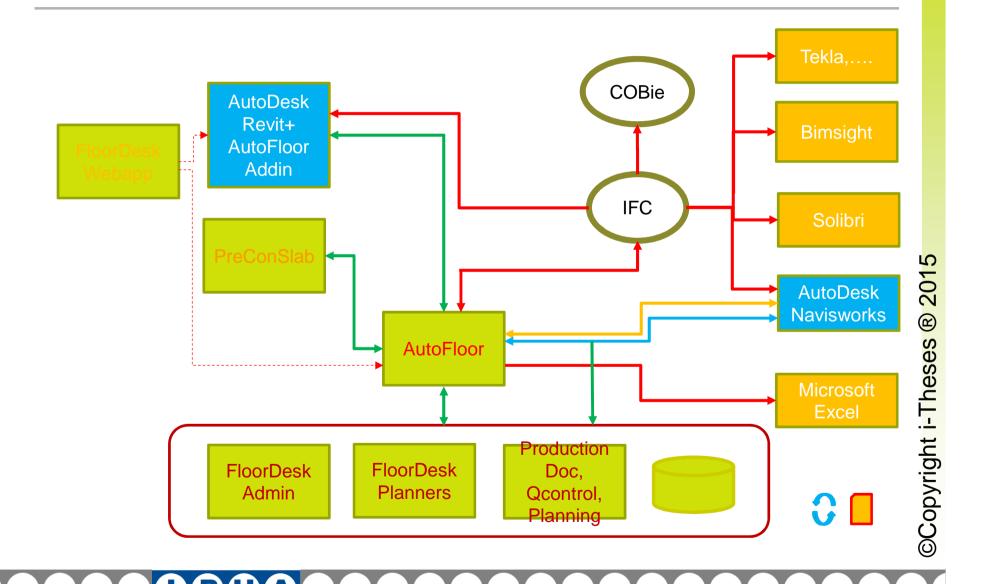




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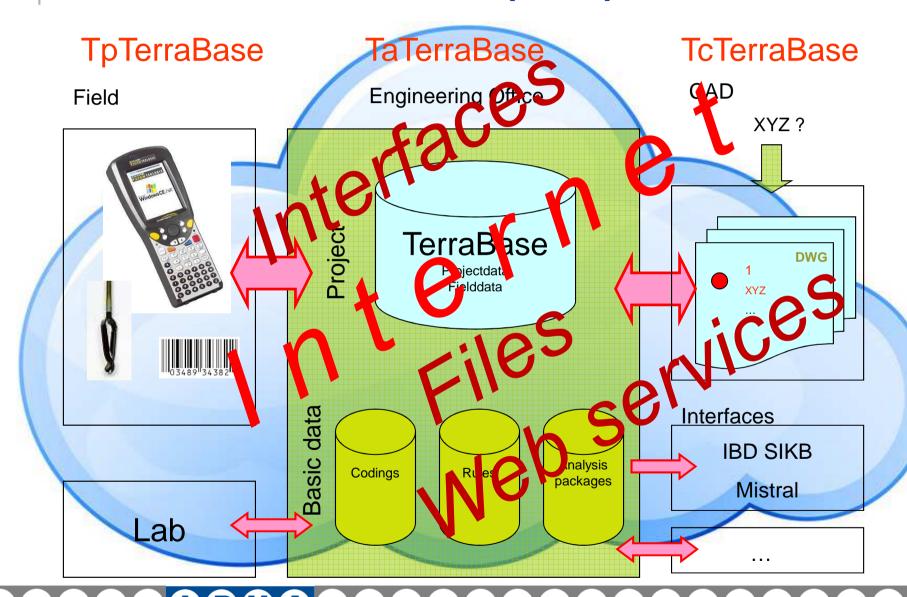
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i-Theses solution



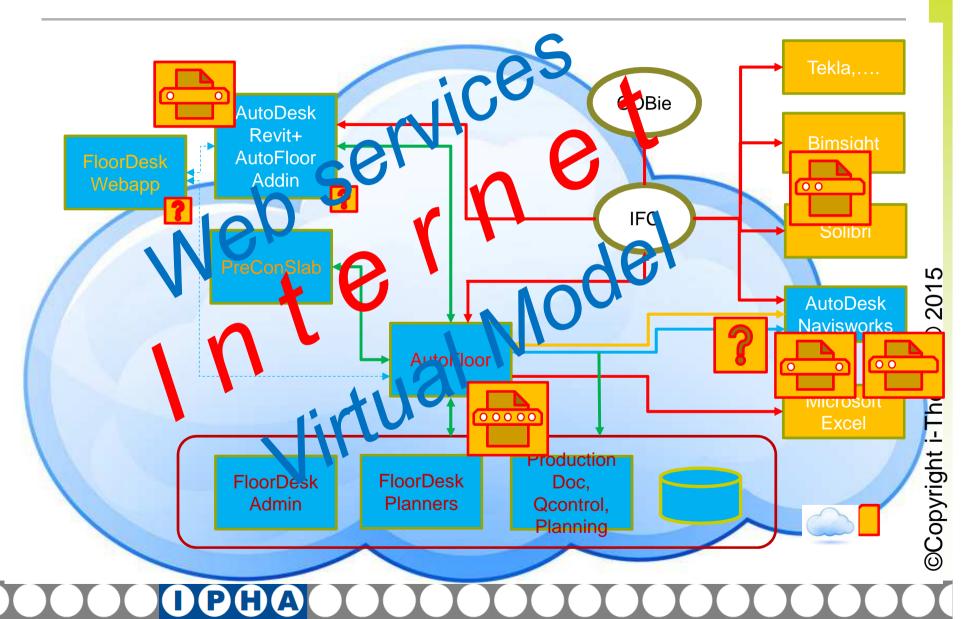
i-Theses solution

(ESC)



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i-Theses solution



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Conclusion 1

YES WE CAN!

- Revit pre-processor (design)
- □ 3D
- ☐ IFC (2 directions)
- Cobie

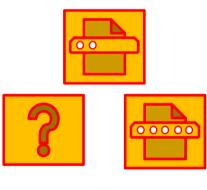


BUT WE CAN MORE!

- Intelligent Viewers
- Original files (no loss of info) (.dwg)
- Plug-ins Navisworks

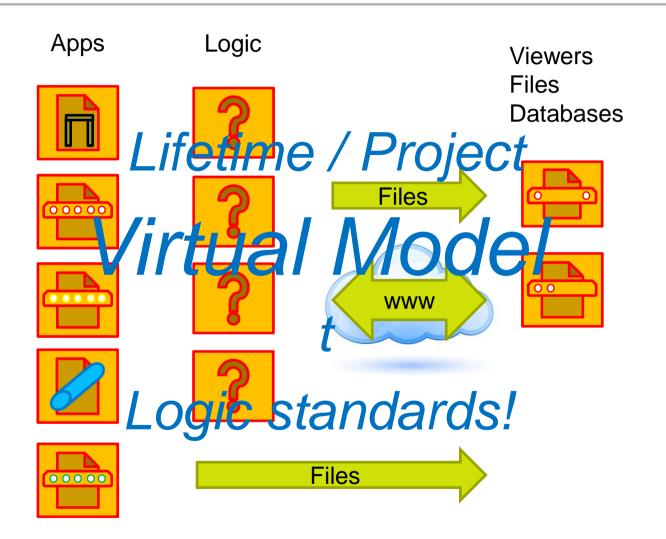
Autodesk products

□ BIM360, ...





Conclusion 2



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More info...



www.flooroffice.eu

www.i-theses.com

