Nordre Jarlsberg Brygge, Norway, www.nordrejarlsbergbrygge.no, Courtesy of Rift AS Architects, www.rift-studio.com



### **Collaboration through OPEN BIM**

Laszlo Drajko GRAPHISOFT Vice President, Americas





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- Open BIM Introduction
- Open BIM Concept
- Open BIM Program



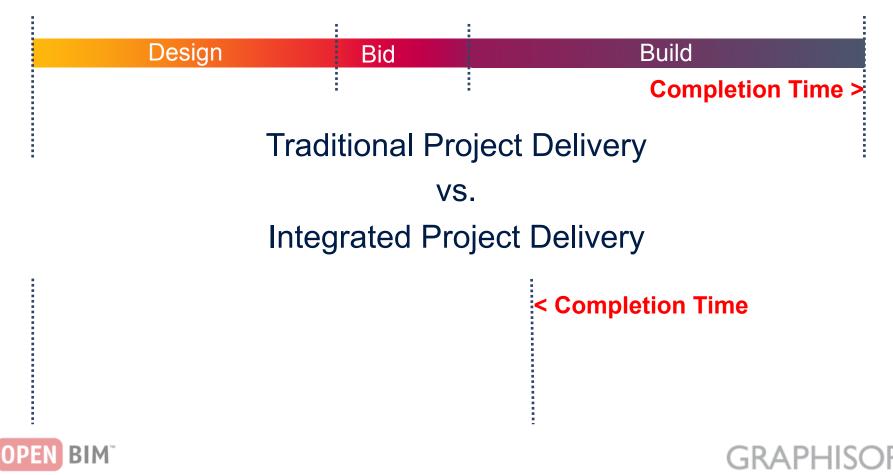




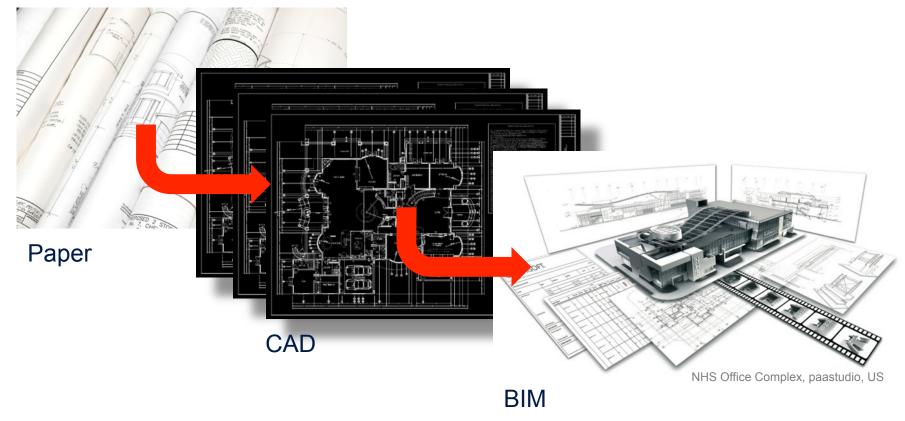




## Changes of Building Project Delivery



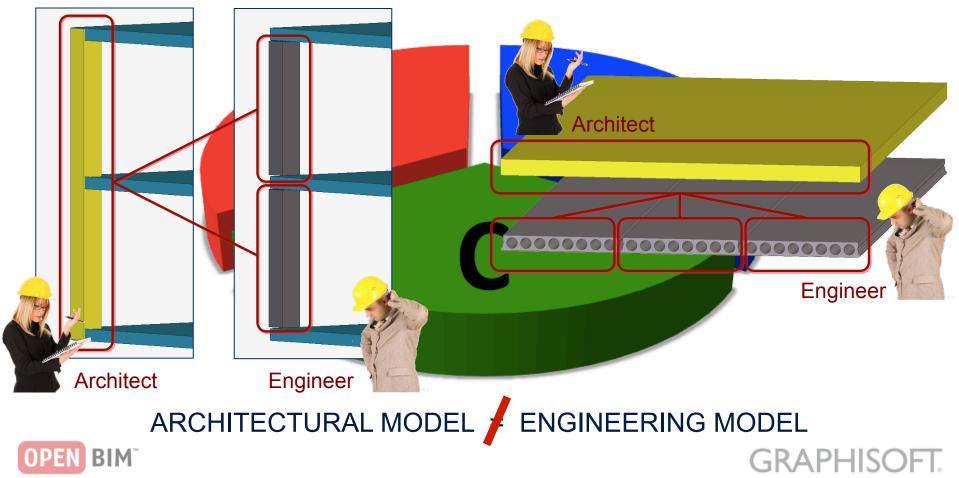
## **Changes of Building Design Methods**



GRAPHISOFT.



## **Challenges of Model Based Collaboration**



## Plurality of AEC Standards

# Each trade to use the best global / local BIM solution available in every project...



## **Open Standards**

#### SmartMarket Report



#### McGraw\_Hill CONSTRUCTION Top Ways to Improve Value of BIM Source: McGraw-Hill Construction, 2010. Improved interoperability between software applications 76% more ap paramy product menuracturer specific content 70% Improved functionality of BIM software 70% More owners asking for BIM 65% More clearly defined BIM deliverables between parties 63%



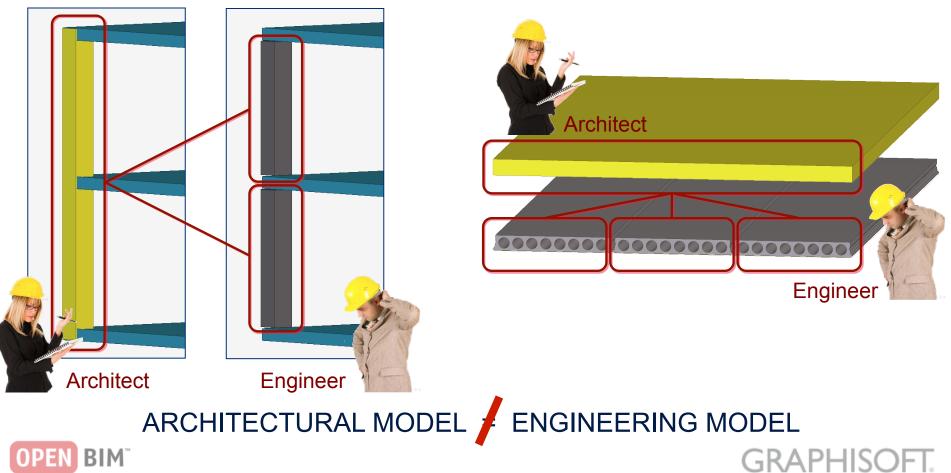


## **Open Standards**



## What is OPEN BIM?

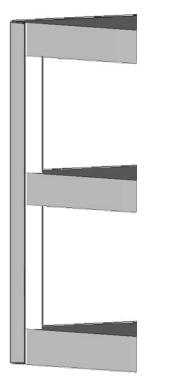
## **Challenges of Model Based Collaboration**



## #1 – Reference Model Concept

#### **Architectural Model**

**Engineering Model** 

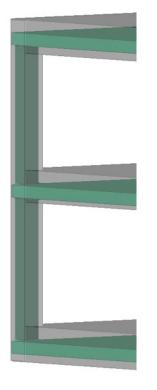








## #1 – Reference Model Concept



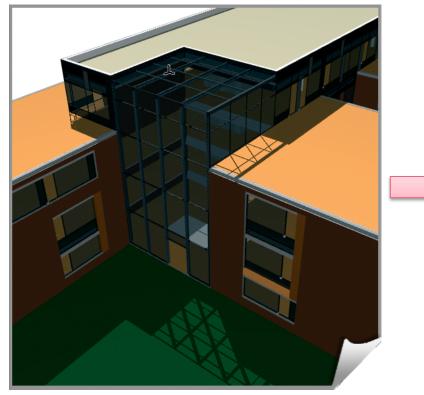
## Benefits

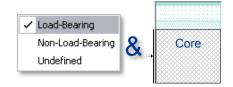
- Clear ownership of models
- Workflow compatibility
- Change management





## #2 – Model Filtering & Classification



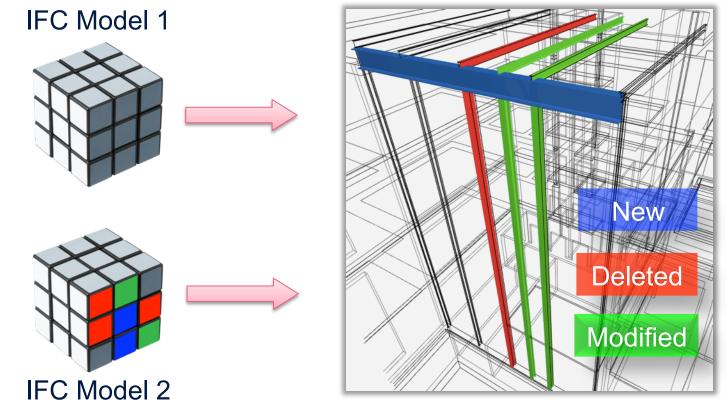


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## #3 – Change Management







## **OPEN Workflow Requirements**

- System independence
- Workflow transparency
  - Ownership of BIM data
- Information classification
- Reference model concept





Technology

Solution!

## IFC < Open BIM

• **Commit to:** the utilization of open standards such as Industry Foundation Classes (IFC)

• **Engage:** any vendor with similar strategy to participate (even competing products)

• Attract: users of BIM solutions to join the workflow, without giving up their production tool





# **Open BIM Program**

## #1 – Unified Communication

Open BIM is a <u>universal approach</u> to the collaborative <u>design</u>, <u>realization</u> and <u>operation</u> of buildings based on <u>open standards and workflows</u>.

Open BIM is an initiative of buildingSMART and several leading software vendors using the open buildingSMART Data Model.





## #2 – Unified Branding







## #3 – Full AEC Spectrum

→ AEC Software & Technology Vendors

→ Organizations & Businesses in the AEC Industry
→ Building Projects in the AEC Industry





## Benefits of Open BIM

- 1. Work with the **best-of-breed solutions**
- 2. Maintain full control over software upgrades
- 3. Reduce coordination errors
- 4. Create BIM for the entire building life-cycle



## **Open BIM Participants**











NEMETSCHEK

**NEMETSCHEK** Allplan

NEMETSCHEK Scia

NEMETSCHEK Vectorworks

**GRAPHISOFT** 



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## Thank you for your attention!

www.openbim.com www.graphisoft.com/openbim-webinar



