Collaboration through OPEN BIM

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• Open BIM - Introduction
• Open BIM - Concept
• Open BIM - Program
Changes of Building Project Delivery

Traditional Project Delivery vs. Integrated Project Delivery

Completion Time >

< Completion Time
Changes of Building Design Methods

Paper → CAD → BIM

NHS Office Complex, paastudio, US
Challenges of Model Based Collaboration

ARCHITECTURAL MODEL ≠ ENGINEERING MODEL
Each trade to use the best global / local BIM solution available in every project...
Top Ways to Improve Value of BIM


- Improved interoperability between software applications: 76%
- More 3D building product manufacturer-specific content: 70%
- Improved functionality of BIM software: 70%
- More owners asking for BIM: 65%
- More clearly defined BIM deliverables between parties: 63%
AIA Advocates for Open Standards in Interoperability for Design Software

For immediate release:
Miami - June 11, 2009 - According to the 2009 Business of Architecture, a survey of firm characteristics published by the American Institute of Architects (AIA), the share of firms that have obtained Building Information Modeling (BIM) software has doubled in period from 2006-2009 and is up to 34 percent of all architecture firms, representing about 50% of AIA architects. Due to challenges associated with the use of BIM...
What is OPEN BIM?
Challenges of Model Based Collaboration

ARCHITECTURAL MODEL ≠ ENGINEERING MODEL
#1 – Reference Model Concept

Architectural Model

Engineering Model
#1 – Reference Model Concept

Benefits

• Clear ownership of models
• Workflow compatibility
• Change management
Load-Bearing Elements

#2 – Model Filtering & Classification
#3 – Change Management

IFC Model 1

IFC Model 2

New

Deleted

Modified
OPEN Workflow Requirements

- System independence
- Workflow transparency
- Ownership of BIM data
- Information classification
- Reference model concept
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
Open BIM is a universal approach to the collaborative design, realization and operation of buildings based on open standards and workflows.

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

buildingSMART
GRAPHISOFT
Trimble
TEKLA
Data Design System

Nemetschek
Allplan
Nemetschek
Scia
Nemetschek
Vectorworks
Thank you for your attention!

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