buildingSMART International
A short introduction

Rob Roef

Geospatial World Forum
CONSTRUCTION & ENGINEERING
18th - 19th January 2018
Surprise!!

No Geo..
but
But BIM
BIM?

Building Information Modelling
or
Building Information Management
BIM

• BIM is essentially a value creation collaboration throughout the entire lifecycle of an asset, supported by creating, collecting and exchanging shared 3D models and intelligent objects with linked structured data (information).
Who are we?

• We come from the Netherlands
  • Alex: Amsterdam Airport Schiphol → strategic advisor BIM
  • Rob: BIM Captain → boardroom consultant

• representing buildingSMART International
From here
BIM-trends 1/2

• Data becomes king
• Data structuring a challenge
  • Process vs technology (properties / templates / distribution)
• Soft skills becoming more important
• Shifting from design / engineering to construction site
BIM-trends 2/2

• Linked Data
  • Dedicated tools for specific tasks
  • BIMbots (triggered when an event happens)

• Common Data Environments
  • Aren't common anymore → Uncommon?

• Connection with GEO is more and more important!!
Open BIM

“OpenBIM is collaborating with other parties - to creating better processes and better buildings - without the obligation to use the same software. Through open buildingSMART standards, software communicates with and each stakeholder works with the most suitable software.”

Rob Roef, BIM captain - 2014
A summary story of the London Standards Summit [https://www.buildingsmart.org/international-standards-summit-london/](https://www.buildingsmart.org/international-standards-summit-london/)

Core community: 320 delegates from more than 30 countries → hundreds more in wider community!
Enable full benefits from digital ways of working in the built asset industry.
buildingSMART

Values

Open
Neutral
Non-Profit
buildingSMART
Goals
openBIM Standards
openBIM Compliance
openBIM Adoption
openBIM Use
Chapters
Members

Strategic Members

International Members

Standard Members
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Sponsors

- Bundesministerium für Verkehr und digitale Infrastruktur
- TRAFIKVERKET
- Liikennevira sto
- CHINA ACADEMY OF RAILWAY SCIENCES
- DIREKTORATET FOR BYGGAVALITET
- Rijkswaterstaat
- Ministry of Infrastructure and the Environment
- CoBuilder
- Implenia
- mensch x maschine
- BIM freelance
- Data Design System
- KUBUS
- buildingSMART Data Dictionary
- CATENDA
- aconex
- SOLIBRI
- iabi

Building & Infrastructure

Individual Certification

BIM Collaboration Format
buildingSMART
Engagement with Others
Standards Bodies

National & Client Programs

ISO  
cen

Plan Transition Numérique
dans le Bâtiment

ETIM

OGC

Digital Built Britain

BIM Loket

EU BIM Task Group

KIRA-digi

Rob Roef
BIM Captain

BuildingSMART
International home of openBIM
Enabling digital ways of working

Five Basics for Sharing our Thoughts:

1. Process Descriptions
2. Enabling Data Structure
3. Change coordination
4. Defined terms and types
5. Digital Workflows

IDM
IFC
BCF
bSDD
MVD

BIM Apps

Workflow Concept by Professor Rasso Steinmann. IABI
buildingSMART
Organization

- Chapters
  - International Council
  - Strategic Advisory Council
  - Board
  - Management Executive
- Three Core Programs
  - User
  - Standards
  - Compliance
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Users Drive our Process

Three Core Programs

User

Standards

Compliance

Industry Outreach

Problem Identification

Standards Process

Problem Solutions

Testing & Compliance

Reliable Solutions
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Users Drive our Process

Three Core Programs

User
- France BIM World
- USA BIMForum
- Other Chapter
- Construction – new!
- Airports – newest!

Standards
- Building
- Infrastructure
- Product
- Technical
- Regulator

Compliance
- Software
- Testing
- Compliance
- Processes
- Data Models

Reliable Solutions

Other Chapter

Industry Outreach

Problem Identification

Other Chapter

Other Chapter
Data Dictionary

European ambitions

UK dictionaries

CEN dictionary

Private dictionaries
harmonized & synchronised with bSDD following standard XP P07-150

Open BIM dictionary according to standard XP P07-150

Dictionaries
harmonized following standard XP P07-150 context in bSDD
The success of BIM is based on the managed exchange of structured information throughout an asset’s lifecycle.
Thank You
More info: www.buildingsmart.org