buildingSMART
HOME OF OPEN BIM

• An international organization that develops open BIM standards and processes and supports the use of BIM.

• Common BIM formats
  • IFC, common BIM format for model exchange
  • Data Dictionary definitions, a BIM enabled naming convention for building parts and detailed attributes
  • LandXML, BIM standards for Infrastructures

• Process and workflow development
  • IDM, Information Delivery Manual (process description)
  • MVD, Model View Definition (technical description)
  • BCF, Building Collaboration Format
buildingSMART Finland
BuildingSMART Finland is a collaboration forum founded by Finnish Property Owners, A/E Consultants, Software Vendors and Construction Companies. It is a member of buildingSMART Nordic Chapter and active actor in the international buildingSMART community.

The Forum aims to disseminate information on BIM and support its member companies for implementing the BIM-based processes.
GOALS

“Our goal is to help the member companies to recognize the benefits of BIM, and help them to develop and implement BIM-based business.

We also promote the dialogue between the software vendors, clients and end-users to remove barriers to the use of BIM.”

Tomi Henttinen, Chairman
LOCAL ACTIVITIES

We organize both open seminars and member events. Here are some topics that we cover:

• Building projects and organizations that make use of BIM
• How BIM processes, roles, and tasks are evolving
• Open BIM use cases and technology improvements and development
• Development and implementation of IFC and other buildingSMART standards
INTERNATIONAL ACTIVITIES

buildingSMART is the channel to influence the development of international standards and practices.

BuildingSMART International works on the global level to enhance the compatibility of different software and standards.
Building SMART International

Building SMART Nordic

Building SMART Finland

Board
- Chair, Room Leaders, Secretary
- Up to 3 Assessors

PR

EC

Building Room
Domains
Steering Groups
Projects

EC

Infra Room
Domains
Steering Groups
Projects

City Planning Room
Domains
Steering Groups
Projects

Education Room
Domains
Steering Groups
Projects

Dictionary Room
Domains
Steering Groups
Projects

EC = Executive Committee
Three building industry groups:
1. Clients
2. Building Services
3. HVAC
The infrastructure industry group is responsible for developing and advancing the use of infrastructure information modelling in Finland.
CITY PLANNING

The city planning industry group is a national collaboration and information exchange forum for technical modelling of cities.
The education industry group meets the challenges of BIM education of today and tomorrow.
The dictionary industry group aims to create a common ground for industry classifications and vocabularies.
OVER 130 MEMBER ORGANIZATIONS

- CLIENTS
- DESIGNERS & CONSULTANTS
- CONTRACTORS
- MANUFACTURERS
- SOFTWARE DEVELOPERS
- EDUCATORS
- RESEARCHERS
Activities
PUBLICATIONS

YTV2012
Common BIM Requirements

YIV2015
Common InfraBIM Requirements

Inframodel
Common BIM Requirements
Interoperable data exchange with CDE and relevant private and public databases

Automated regulatory control and permit.

Key word describing the stage: Integrated, BIM, automated, robot, machine readable and interpretable regulations, open standards, digital friendly legislation

Communication by mail or e-mail. Data exchange by forms, drawings and maps. Digital (e.g. pdf), paper or combined.

Key word describing the stage: Digital communication, reuse of public data, 3D models for visual use, xml, partly automated, open BIM, existing legislation

Increasing interoperability and automated data control.

Digital communication and data exchange between authorities and asset owners and the construction value chain.

Low hanging fruits

BIM initiation

Current implementation in most countries worldwide

Manual

Hybrid

Current pilot projects in a few countries

Advanced BIM

Interoperable data exchange with CDE and relevant private and public databases

Automated regulatory control and permit.

Key word describing the stage: Integrated, BIM, automated, robot, machine readable and interpretable regulations, open standards, digital friendly legislation

Long term ambitions

A few research projects

BuildingSMART International Regulatory Room

ROADMAP TO AUTOMATED REGULATORY PROCESSES
EVENTS