

# buildingSMART International Process+Product Room

Concept and Objectives

# buildingSMART

- buildingSMART International is:
  - A neutral, international and unique non for profit organisation supporting open BIM through the life cycle.
  - We have regional chapters in Europe, North America, Australia, Asia and Middle East.

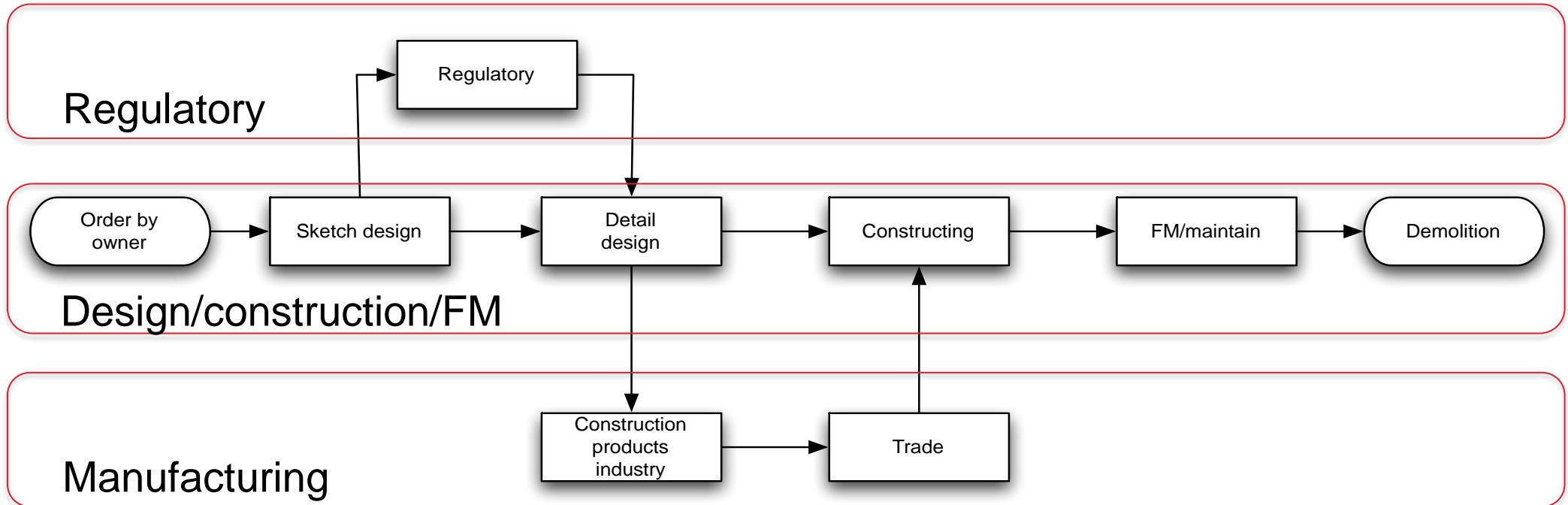
# buildingSMART

- How we can help you:
  - Build SMART to build GREEN
  - Improve your business processes
  - Develop new business models
  - Extend your value chain
- What we do:
  - Develop and maintain international standards for openBIM:
    - buildingSMART Processes
    - buildingSMART Data Dictionary
    - buildingSMART Data model

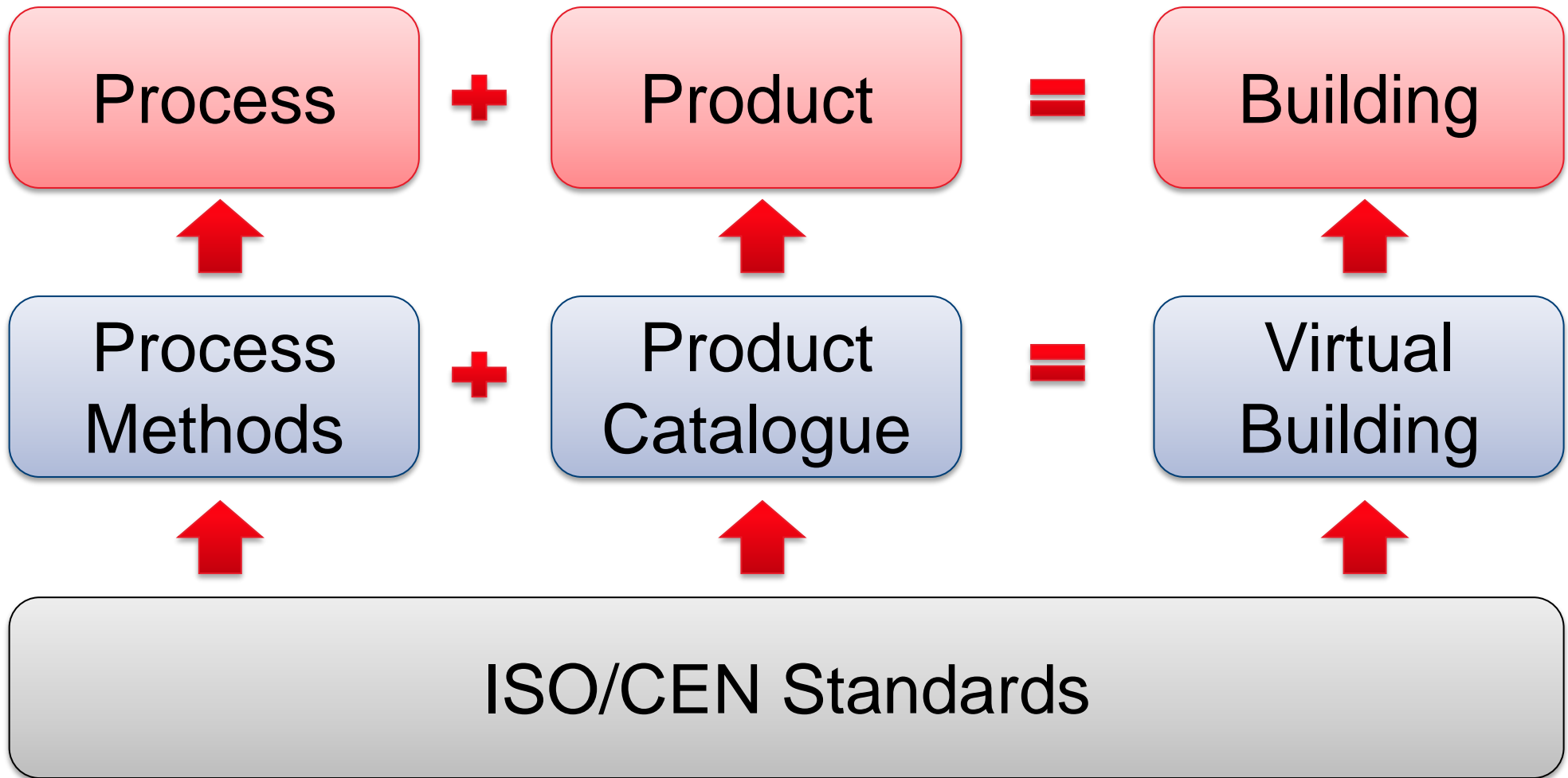
# bSI the home of OPEN BIM

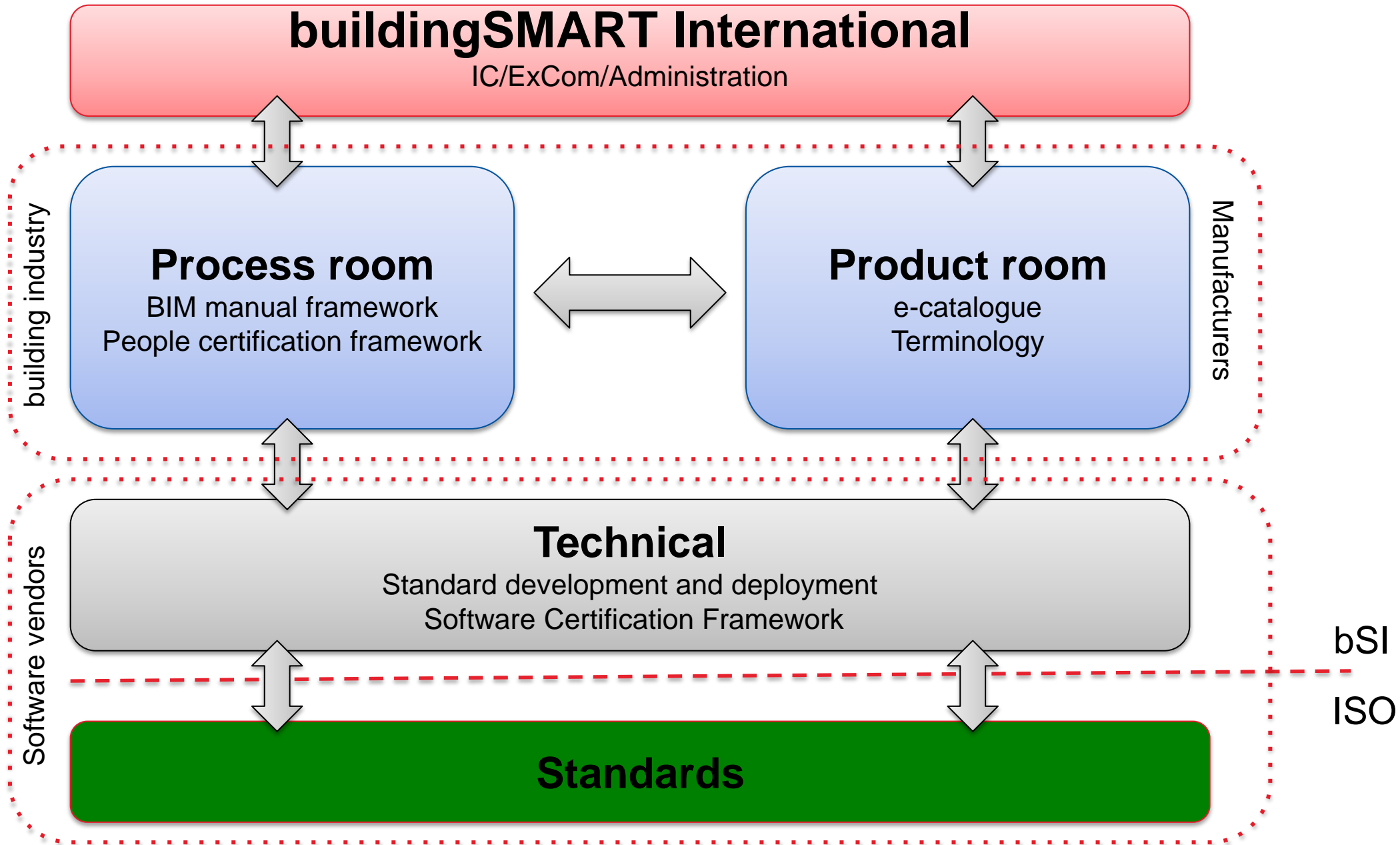
- OPEN BIM supports a transparent, open workflow, allowing project members to participate regardless of the software tools they use.
- OPEN BIM creates a common language for widely referenced processes, allowing industry and government to procure projects with transparent commercial engagement, comparable service evaluation and assured data quality.
- OPEN BIM provides enduring project data for use throughout the asset life-cycle, avoiding multiple input of the same data and consequential errors.
- Small and large (platform) software vendors can participate and compete on system independent, 'best of breed' solutions.
- OPEN BIM energizes the on-line product supply side with more exact user demand searches and delivers the product data directly into the BIM.

# Building industry value chain



Need of seamless data flow





# Product Room Purpose and Focus

- Support professionals using digital information, prototypes and models for the planning, design, construction, occupation, and maintenance of facilities
- Focus on application of the buildingSMART Data Dictionary (also known as International Framework for Dictionaries (IFD))
- Focus on structure of data in models and libraries
- Focus on how it works in conjunction with the IDM process modelling standard and IFC reference model standard



# Product Room Objectives

- Development of common information structures for the facility design and construction industry for the application of openBIM globally
- The development, population and use of an open, shared content naming and structuring service based on the principles identified in ISO TC59 SC13 12006-3 Framework for Object-oriented Information Exchange that relies on a system of Global Unique Identifiers (GUID)
- Access to the entities, types and property sets of the IFC model for explicit reference, translation, management and extension of the IFC model by bSI chapters and other organizations and companies.

# Product Room Objectives (contd.)

- Access to a library of concepts and relationships for naming and structuring databases of content for BIM
- Networking opportunities between organizations sharing a vision of a more efficient, productive and sustainable industry
- Meeting of organizations across disciplines and borders
- Assistance in forming and supporting projects that involve the organizing and structuring of digitized A/E/C/O industry information by both providers and consumers
- Developing requirements for information access and use by tool providers, such as software vendors/developers and information providers

# Product Room Activities

- Coordinate the development of documentation and training material
- Hold biannual international workshops
- Participate in the development of projects to extend existing standards, specify best practices, and transform needs into useful implemented solutions

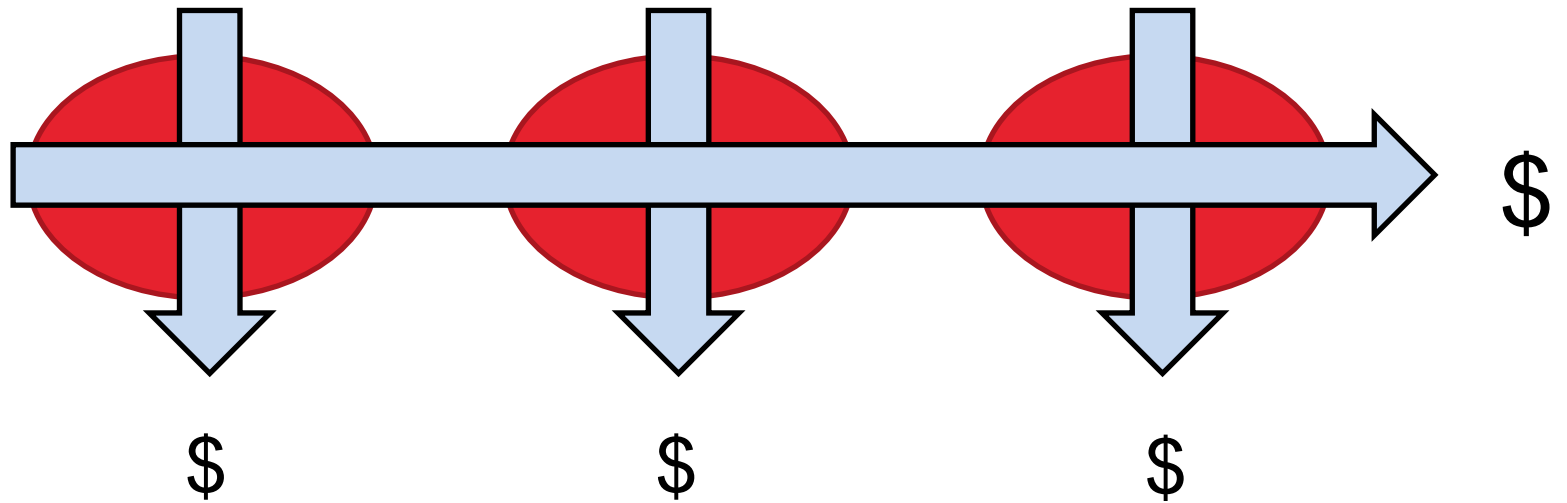
# Process Room Purpose and Focus

- The Process Room within buildingSMART International **supports professionals** in the construction industry that who are utilizing using digital information, prototypes and models to support the planning, design, construction, occupation, and maintenance of facilities.
- buildingSMART is offering the Process Room along with its counterpart, the Product Room, to help organizations profit from workflows that integrate with the building information modelling (BIM) concept.

# Innovation

- Change requires energy
  - Front runners
  - Support from Management
- The Management must be aware of the possibilities in order to response
  - Incentive to change
  - Make it attractive to use the technology
- Case study
  - Those that invest are benefitting most
  - OPEN BIM used in the most advanced and profitable project

# Silos



# Process Room supports

- Development of strategies for different actors in the construction industry based in openBIM
- Identifying information needs in order to create Information Delivery Manuals
- Access to a library of BIM support workflows
- Networking opportunities between organizations sharing a vision of a more efficient, productive and sustainable industry
- Meeting of companies across disciplines and borders
- Assistance in forming and supporting projects that involve the development of both processes and tools

# Process Room supports (contd.)

- Sharing and creating BIM-manual
- Sharing and creating Information Delivery Manuals
- Certification of professionals and students
- Developing requirements to tools providers, such as software vendors and developers