



## Statsbygg – International User Group



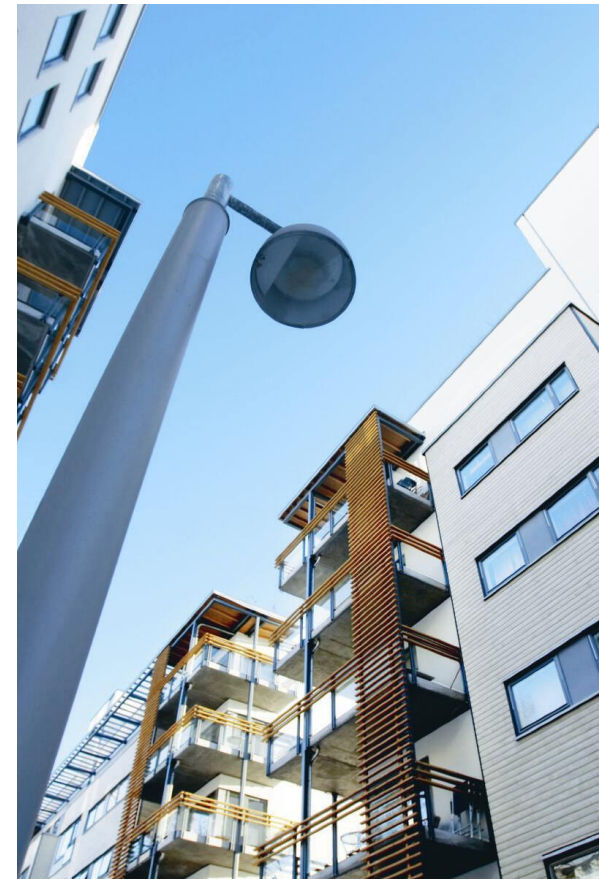
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R&D Director. Bjørne Grimsrud - [bgri@statsbygg.no](mailto:bgri@statsbygg.no)  
[www.statsbygg.no/bim](http://www.statsbygg.no/bim)

## Statsbygg

Statsbygg is the Norwegian Directorate of Public Construction and Property. Organised as a government corporation, Statsbygg's tasks include:

- project management/construction
- property management
- property development
- buying and selling



## Property manager

Floor space: 3 million m<sup>2</sup>

Value: NOK 22 billion (~USD 4 billion)

Revenue: NOK 3 billion (~USD 600 mill.)

Revenue is primarily rent from users and lessees of properties

Long term strategy – **Use open BIM/BuildingSMART standards in “all” our business processes**





### Statsbygg går for BIM

**Statsbygg satser på bruk av digitale bygningsinformasjonsmodeller (BIM) basert på åpne internasjonale standarder. Statsbygg har som mål å benytte BIM i hele livsløpet av sine bygg. I 2007 skal minst fem prosjekter bruke BIM. I løpet av 2010 skal BIM benyttes som hovedregel i alle Statsbyggs bygg og byggeprosesser. [15.05.07]**

Statsbyggs mål om økt bruk av BIM er en avgjørelse som kan påvirke hele den norske bygge-, anleggs- og eiendomsnæringen.

- BIM vil bedre effektiviteten i prosessene. Det vil gjøre det mulig å utføre oppgavene bedre, og det vil bli mindre feil. Gevinsten er åpenbar: Billigere og bedre bygg, sier utviklingsdirektør i Statsbygg, May Balkøy.

#### Koordinerte modeller

Bruk av digitale informasjonsmodeller (BIM) medfører en digitalisering av planleggings-, bygge- og driftsprosessene som gjør at informasjonen i prosjektene kan databehandles effektivt. BIM endrer



Washington, DC  
January 17, 2008

Public Statement

## STATEMENT OF INTENTION TO SUPPORT BUILDING INFORMATION MODELING WITH OPEN STANDARDS

### Background

Government clients of the AEC/FM (Architecture, Engineering, Construction, and Facilities Management) sector have an interest in the continuous advancement of productivity, efficiency, and quality in the AEC/FM industry, leading to a better built environment for end users, clients, and stakeholders.

We believe that sharing AEC/FM-related information throughout the life cycle (scoping, planning, design, tendering, procurement, construction, operation, maintenance, refurbishment, and disposal) of capital facilities globally and across all disciplines and technical applications, is key to achieving this goal.



## The need for IUG

### BuildingSMART (in the past)

- Not (enough) focused on business processes
- Exchange geometry between Architects is not relevant...
- It's the exchange of Information in- and between processes that is relevant and would give added value to the industry
- Technology driven (by ICT experts)
- Focus/priorities has changed at the international arena lately
- Still we do not know what data can- and can not be exchanged (which processes are supported)...

## (Recent) Experiences – Arch. competition New National Museum

- Required delivery of the design suggestion/-concept in open BIM/BuildingSMART format (no physical 3D model was required)
- Made a simple project BIM manual
- Tested the 6 most likely (architect) CAD systems to see if they could meet the requirements in the BIM manual (all of them IFC certified)
  - Was it technically possible



## “Appendix 5.6 Digital 3D model and BIM requirements”

### Quotes

- *”In this project a simple digital 3D building information model (BIM) in open BIM standards/formats is a main deliverable.*
- *This implies that the competitor entrants must use an object oriented design tool that supports the specified open standard in this Architectural competition.*
- *No traditional, physical model (cardboard etc) must be delivered”*

## The BIM tools tested

- Import/eksport test and guidelines, site object, (functional)spaces, GUID, naming conventions etc
- Allplan 2008
- ArchiCAD 12
- AutoCAD Architecture 2009
- Bentley Architecture V8
- Revit Architecture 2009
- Vectorworks 2009
- Only ArchiCAD passed with no issues or comments...



## Facts from phase 1 of the competition

- More than 1200 registered entrants on the competition web
- 237 BIM deliveries
  - Wide range of quality
  - More than 100 considered to hold good quality
  - Most of them were “fixable”, so only a few were useless
- Both numbers and quality are approx as expected

## IUG – The user pressure group

- The sponsors (and participants) of activities in BSI
- Owners (and participants) of the processes that should benefit from a interoperable industry
- We need to know that requirements in our business processes are supported, being a critical component in our contracts...
- We need **BIM for a purpose**...

## IDM – the key component to IUG (our view)

- Statsbygg has seen the IDM project as the key to innovation and change to process focus in IAI/BuildingSMART
  - One of the main initiators and sponsors
  - Developed several IDM documents
  - OGC-AECCO test-bed
  - QTO/MEP aquarium
  - Concept Design BIM (GSA/Senate/Statsbygg)
- We need IDM mainly to understand the processes that would benefit from the exchange of information
- IDM is the key to ensure that user needs are supported

## IUG – Agenda

- Should be a body with formal power to set the agenda in BuildingSMART
- Through IDM - bind together user needs/"problems" and coordinate in aquarium projects
- Implementation priorities
  - How should we certify software (and what)
  - Who should certify software
  - What does it mean that a software is IFC/BuildingSMART certified
- We need to know that it's technically possible to provide the information needed (contract requirements) in our business processes



# Thanks!