



buildingSMART®

NORGE

MOVING THE BUILDING INDUSTRY FORWARD

22 MARCH

2012

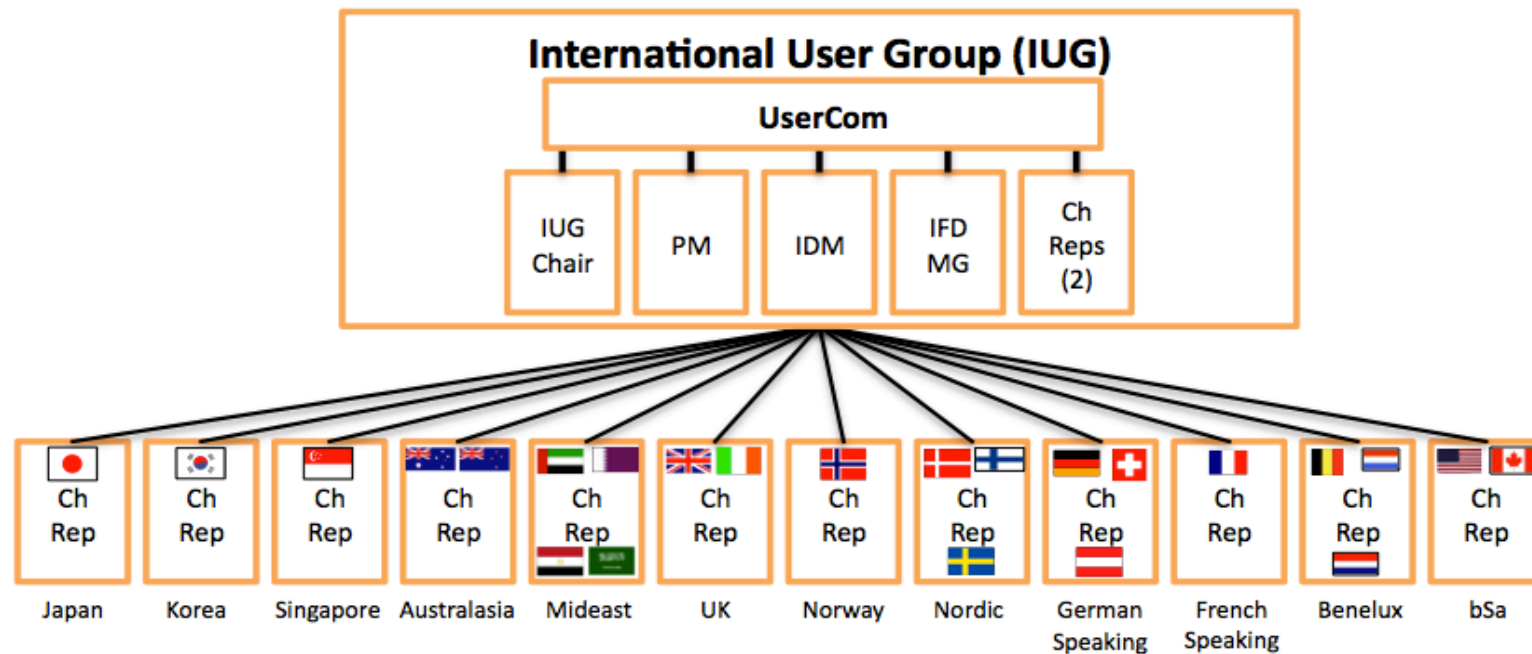
OSLO

AN INDUSTRY ON THE MOVE

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BRINGING NATIONAL AND INTERNATIONAL STAKEHOLDERS TOGETHER
FOCUS ON TOPICS THAT MOVES THE INDUSTRY



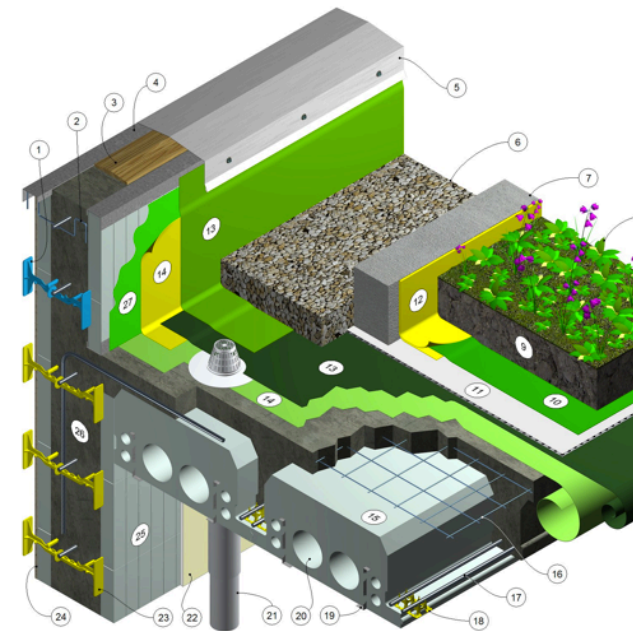
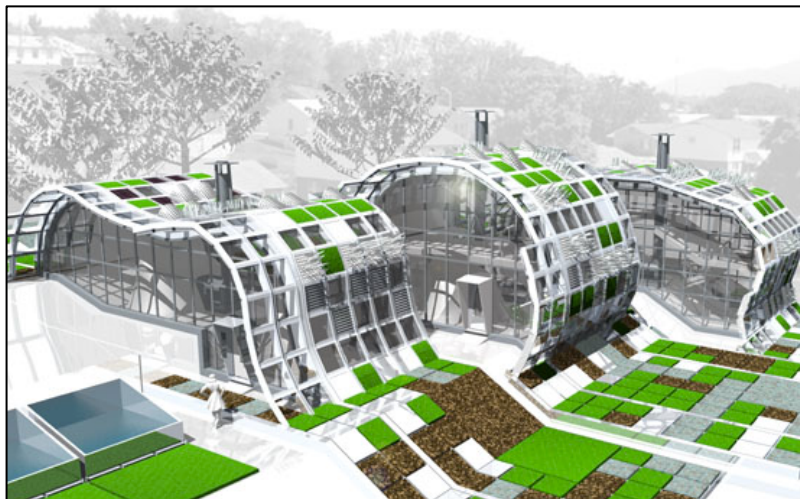
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POLITICAL AND STRATEGIC INDUSTRY SIGNALS CALLS FOR openBIM

Sustainable building and property industry needs control over cost, quality and performance.

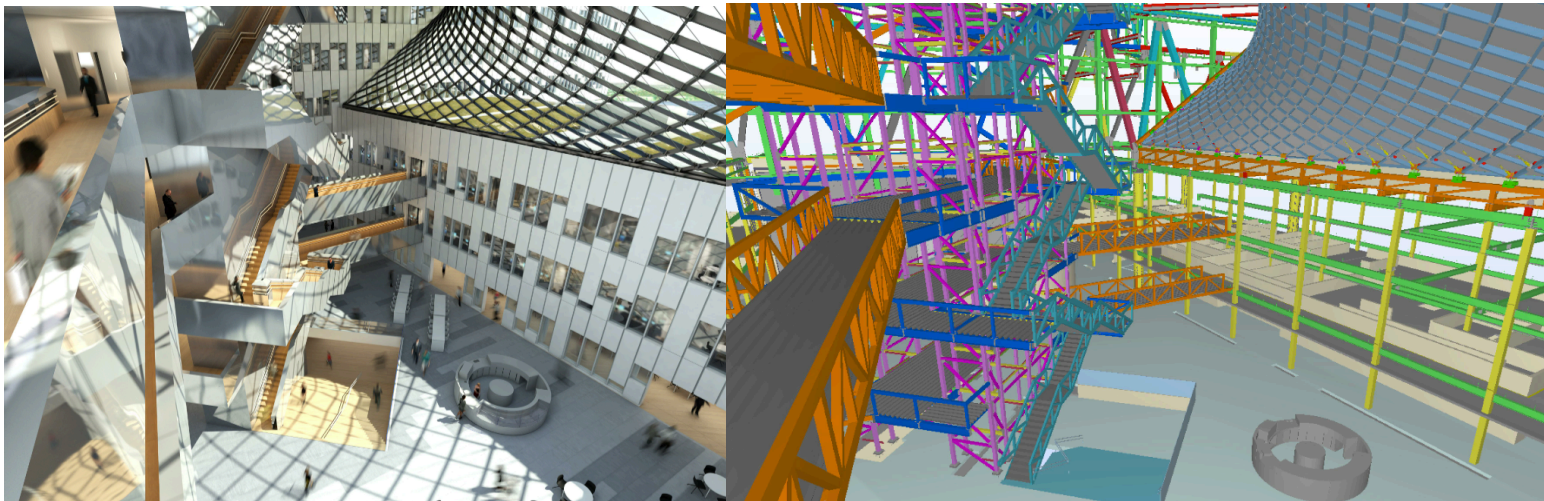


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BUSINESS DEMONSTRATES openBIM WORKS AND PAYS OFF



Many projects demonstrates that IFC works.

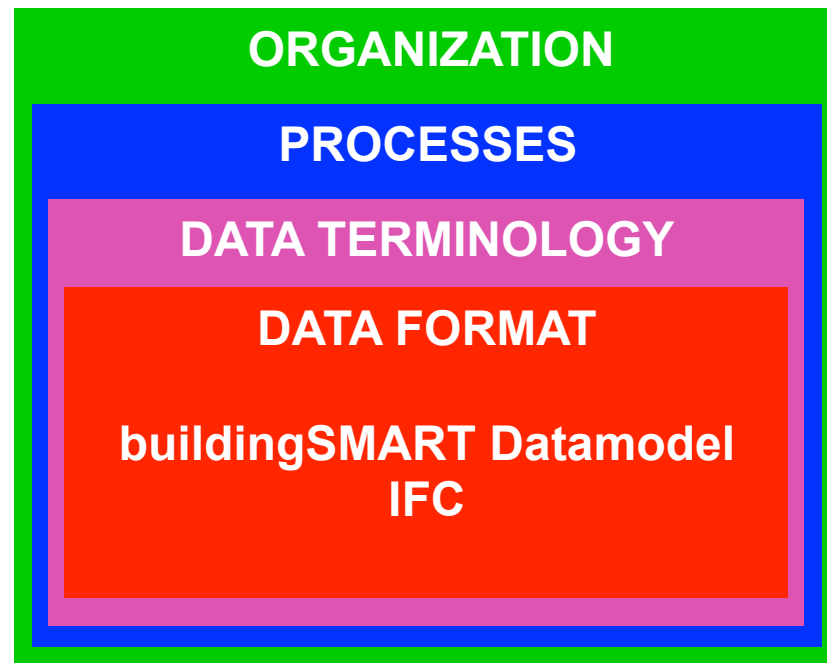
Business are more focused on managerial issues than technical. How to optimize quality and profit

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BUSINESS REASONS FOR buildingSMART

buildingSMART PROVIDES INTERNATIONAL DEVELOPED AND STANDARDIZED FRAMEWORK FOR:



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BUSINESS REASONS FOR buildingSMART

USER DRIVEN DEVELOPMENT

Solutions that moves the Industry

Compatibility between formats

LOCAL / REGIONAL IMPLEMENTATION

Multi-Disciplinary adaptation of buildingSMART in local markets

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PROGRAM

openBIM STRATEGIES AND REQUIREMENTS

08:30 *Registration, coffee and danish pastry*

09:30 **AN INDUSTRY ON THE MOVE**

buildingSMART Norway

09:45 **POLITICS AND THE FUTURE OF THE BUILDING INDUSTRY**

Leader of the Conservative Party of Norway, Erna Solberg

10:15 **KEYNOTE - THE PROMISE OF buildingSMART**

*Patrick MacLeamy, Chairman buildingSMART International and CEO HOK,
Architect office, USA*

10:45 *Break*

11:15 **MOVING THE INDUSTRY FORWARD WITH openBIM
STRATEGY**

Birger Stamsø, SENRHA/Helse Sør-Øst, Norway

openBIM WORKS

11:45 **VIRTUAL DESIGN AND CONSTRUCTION AT WORK**

Øyvind Børstad, Manager of VDC department, NCC Construction AS

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PROGRAM, openBIM WORKS *Continues*

12:10 *buildingSMART Norway Reward 2012*

12:15 *Lunch*

13:15 **SKANSKA'S NEW HEADQUARTER IN HELSINKI, FINLAND**

Skanska Finland, Tiina Koppinen

14:00 **USING openBIM TO REDUCE COST IN FACILITY
MANAGEMENT**

Thomas Gay, FM Global, Facility Insurance Company, USA

14:30 *Break*

15:00 **openBIM IS PROFITABLE!**

*Peter Hauch - Arkidata, DTU - Technical University of Denmark, CBS -
Copenhagen Business School and DTI - Danish Technological Institute*

15:45 **SUSTAINABLE BUILDING PROJECTS**

Nils Ivar Nilsen and Knud Mohn, NDEA/Forsvarsbygg, Norway

16:15 **THE NEW LONDON OLYMPIC STADIUM BENEFITS FROM openBIM**

*Ben Haldin, CEO Fulcro, Engineering, Management and Technology
Company, UK*

16:45 *Wrap-up and closure 17:00*

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buildingSMART NORWAY REWARD 2012

THIS YEARS PRIZE IS A PRINT FROM NORWEGIAN ARTIST

BERIT MYHRVOLD

THE REWARD THIS YEAR GOES TO A PERSON WHO HAS BEEN INVOLVED WITH DEVELOPMENT AND USE OF buildingSMART FOR MANY YEARS.

SHE BASES HER ENTIRE COMMERCIAL BUSINESS ON buildingSMART.

SHE ENGAGES IMPORTANT STAKEHOLDERS IN THE BUSINESS INDUSTRY AND DEVELOPS openBIM SOLUTIONS FOR THEM.

HER BUSINESS DEMONSTRATES THAT openBIM WORKS.

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buildingSMART NORWAY REWARD 2012

WINNER OF THE BUILDINGSMART NORWAY REWARD 2012

JANNE AAS-JAKOBSEN

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buildingSMART NORWAY CONFERENCE 2012 – WRAP UP

Erna Solberg

Norway will have 1 mill. more inhabitants in 2028. We need to house those. We need openBIM for design/construction/operation but also for planning on the community level. The future is here today.

Birger Stamsø

Client demand for sustainable, better, cheaper buildings. Provided by strict requirements for openBIM.

Tiina Koppinen/Øyvind Børstad

Contractors run BIM and openBIM. They didn't a few years ago. There are huge benefits to gain from a variety of processes. It is the new way of working, today.

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buildingSMART NORWAY CONFERENCE 2012 – WRAP UP

Thomas Gay

Building owners profit from openBIM. It helps increase building quality and lower operation costs.

Peter Hauch

openBIM gives Return of Investment. And openBIM is not an obstacle for succeeding. Those who invest the most tends to gain the most.

Knud Mohn and Nils Ivar Nilsen.

openBIM improves performance which also can cause increased sustainability. Infrastructure is just as important than the buildings. NDEA wants to get BREEAM certification tool using BIM to reduce cost of certification.

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buildingSMART NORWAY CONFERENCE 2012 – WRAP UP

Ben Haldin

openBIM reduce risk and errors and increase quality. It's a strong managerial tool.

Need for educating people. Need for industry standard.

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buildingSMART NORWAY – PRODUCTS AND SERVICES

STANDARDS NORWAY STANDARD FOR PRODUCT LIBRARIES

First version before 2013

Use of IFC objects supported by implementers agreement

MEMBER MEETINGS IN 2012

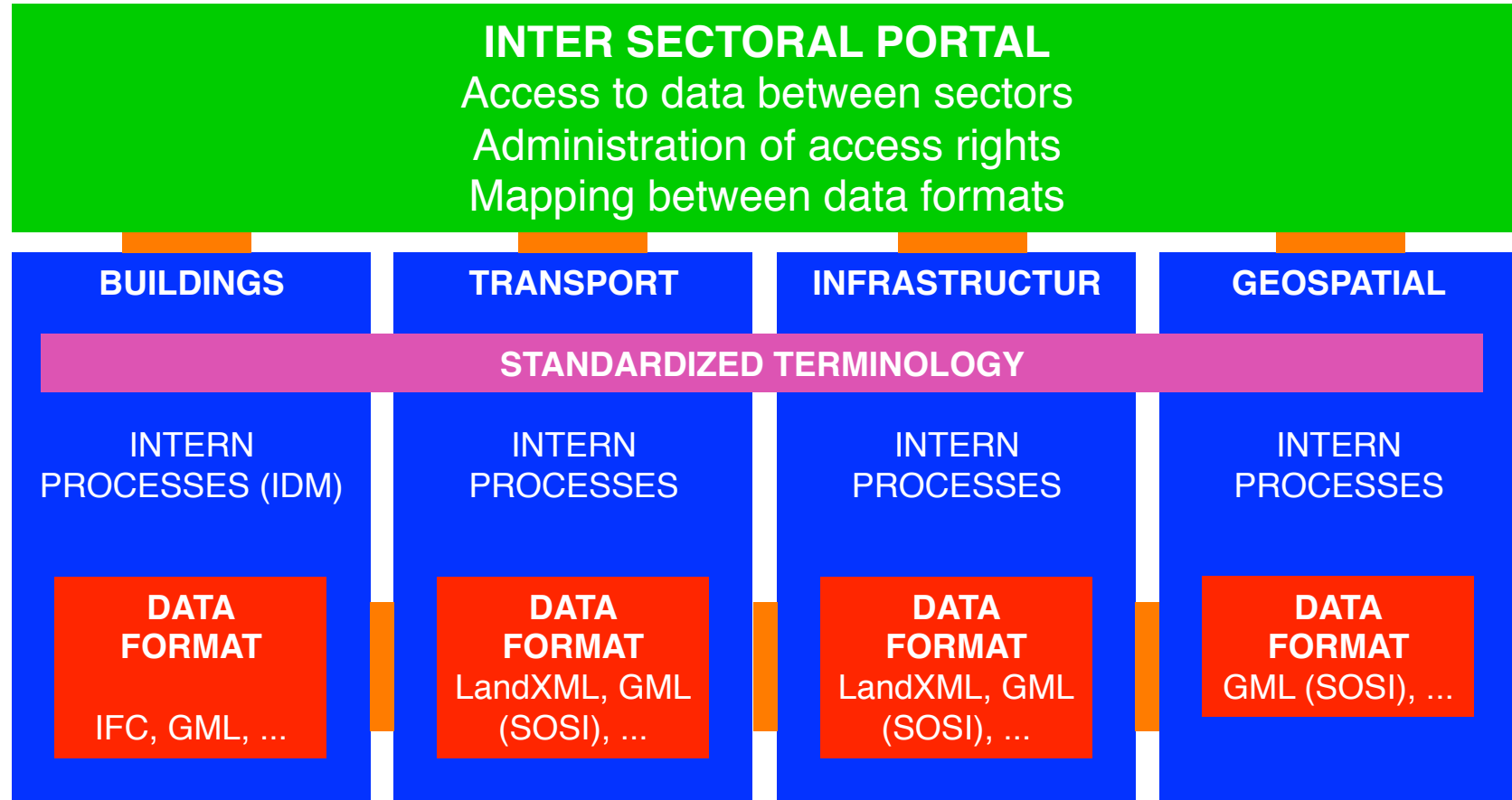
Contract Models, follow-up






Industrialization

Building Life-cycle Cost (LCC) and Assessment (LCA)

openINFRA

CONCEPTUAL MODEL FOR openINFRA IN NORWAY



-  INTERNAL PROCESSES IN ALL SECTORS. THE PROJECT SHOULD STANDARDIZE METHOD FOR DOCUMENTATION OF PROCESS DELIVERIES
-  SECTORS HAVE DEVELOPED AND IMPLEMENTED THEIR OWN DATA FORMATS
-  THE PROJECT SHOULD HARMONIZE SYSTEMS FOR DATA TERMINOLOGY
-  INTER SECTORIAL PORTAL FOR ACCESS TO DATA BETWEEN PROJECTS
-  MAPPING BETWEEN DATA FORMATS

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buildingSMART NORWAY – PRODUCTS AND SERVICES

openINFRA ON INTERNATIONAL AND NATIONAL LEVEL

NATIONAL

Cooperation between buildingSMART Norway, Ministry of Environment, BA-Nettverket, Norwegian Mapping Authority and The Norwegian Public Roads Administration.

INTERNATIONAL

Organizing stakeholders and initiatives i.e. Inspire

Terminology for infrastructure

Mapping between formats

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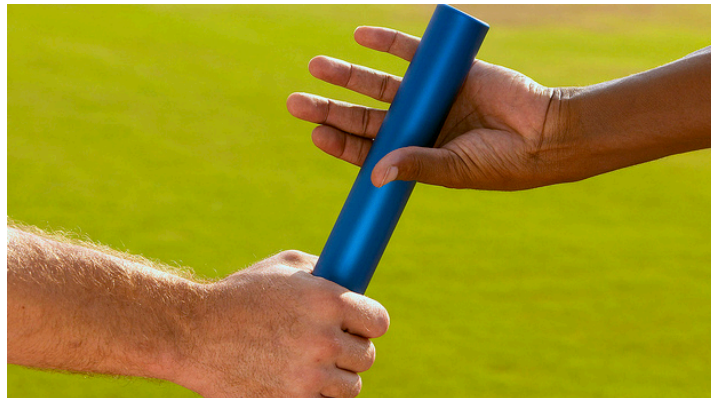
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INTERNATIONAL STANDARD FOR BUILDING PROGRAMMING

Standardize project deliveries through all stages

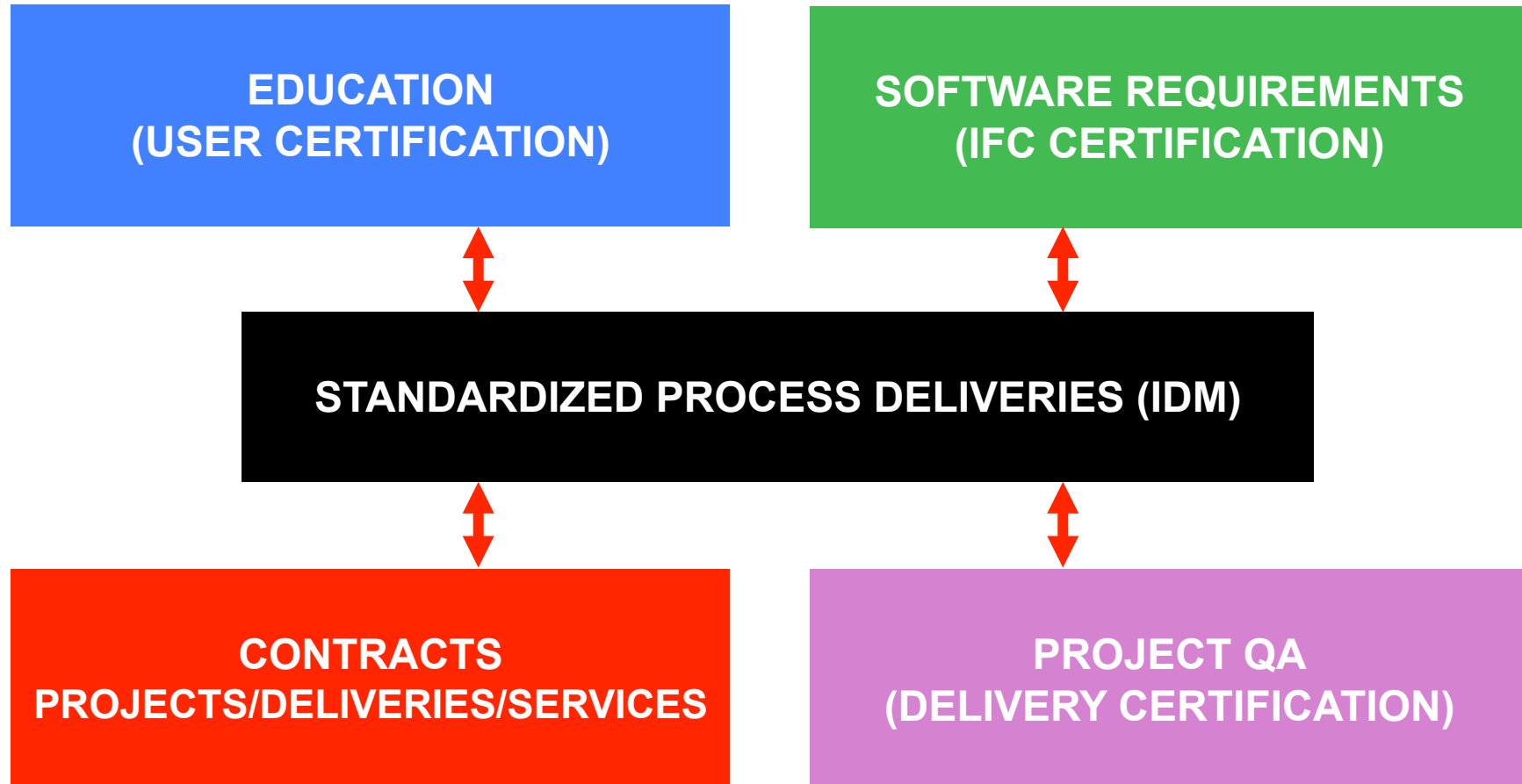
NORWEGIAN (INTL.) STANDARD FOR FACILITY MANAGEMENT

Standardize delivery specification for hand-over to building owner



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buildingSMART NORWAY – PRODUCTS AND SERVICES

EDUCATIONAL PROGRAM

CLIENTS, ENGINEERS/ARCHITECTS AND CONTRACTORS

BASED ON STANDARDIZED PROJECT DELIVERIES FOR:

Building Programming, Visualization, 4D Construction Simulation, Clash Detection, Cost Estimate and Architect/Engineer hand-over to Contractor.



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THANK YOU!
SEE YOU SOON