

The background consists of several overlapping geometric shapes. A large orange shape forms the central and upper portions, while dark blue shapes fill the corners and lower sections, creating a dynamic, abstract composition.

**Danish
Association of
Architectural
Firms**

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Member of ACE BIM Group
Danish Association of Architectural Firms
Head of ICT, C.F. Møller

EU-BIM, Leadership and Strategies

CEN, ISO and buildingSMART and IFC



20171201 ACE-BIM, Peter Hyttel Sørensen
Danish Association of Architectural Firms

Aarhus University Hospital 500.000 m²
Construction costs (2007-2022)+ billion Euro/+8 billion DKK

BIM Leadership in Europe, “The players”



EU BIM Taskgroup, supported by the European Commission,



CEN TC 442, European Committee for Standardization
ISO, International Organization for Standardization



buildingSmart, Network, IFC standard owner, Lobby organisation



Liaisons to CEN TC442;
ACE, Architects Council of Europe
EFCA, European Federation of Engineering Consultancy Association
+ other organizations and ISO standards

BIM Leadership in Europe, Savings with BIM production?

Source: “EU BIM Taskgroup”

Handbook for the Introduction of Building Information Modelling by the European Public Sector;

“BIM is not new, but it is a global trend that is growing. Reports forecast that the wider adoption of BIM will unlock 15–25% savings to the global infrastructure market by 2025. And it is the technology-led change most likely to deliver the highest impact to the construction sector”



Source: Proposed revised Business Plan from CEN/TC 442/WG 1 Building Information Modelling;

“A recently published UK Cabinet Office report shows capital cost savings of 19.6% due to use of BIM, saving £840m on £3.5bn of construction spend in the 2013/2014 financial



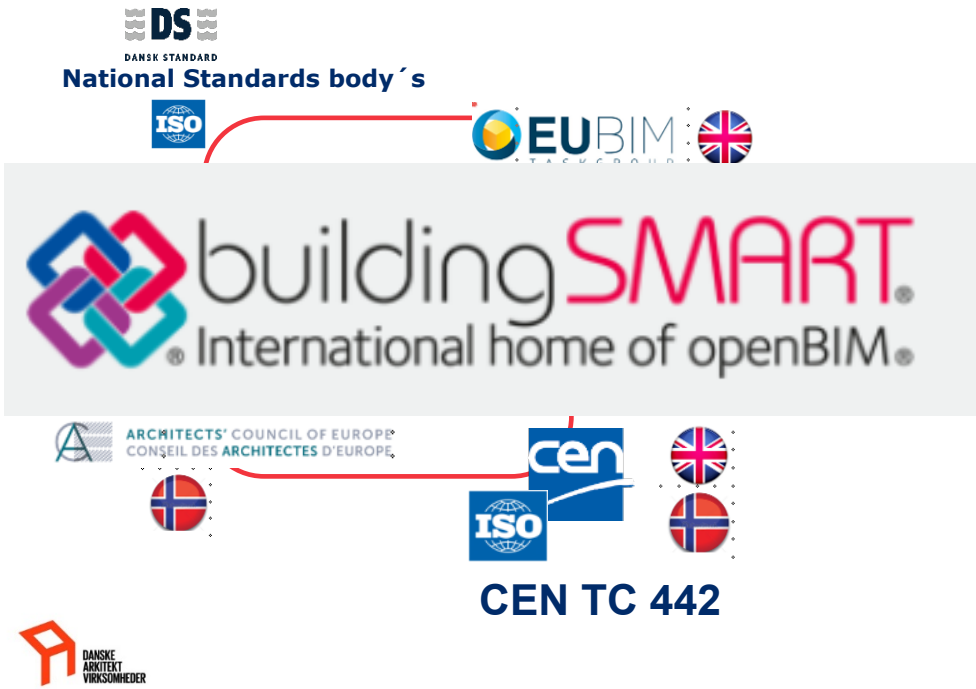
Numbers come from McKinsey&Compagny

1.600.000.000.000.000.000

Lagging construction productivity costs the global economy
\$1.6 trillion a year.



BIM Leadership in Europe, BuildingSmart – CEN - EU Taskgroup



The screenshot shows the buildingSMART website's Member Directory page. The header includes the buildingSMART logo and navigation links: About, Users, Standards, Compliance, Chapters, Members, News, Site Map. The main content area is titled 'Member Directory' and includes a breadcrumb trail: Home > Members > Member Directory. Below this is the 'Strategic Advisory Council' section, which displays logos for ARUP, a stylized 'A' logo, h+k, KAJIMA CORPORATION, LafargeHolcim, and NEMETSCHKE GROUP.

buildingSMART is the worldwide authority driving the transformation of the built asset economy through creation & adoption of open, international standards

BIM ??

**Business Model
or
Digital Tools**



BIM-IFC and The confusion of concept and definitions

Interoperability (software) = “language of mathematics”
It's comparable to file container for graphic and data

Methodology (process) = “semantics and language”
It's comparable to classification, alphabets, grammar

IFC is a combination of the above

In early 90's it was given the name “The end of Babel”

IFC is a file and data format

IFC is not a business model



Control functions (Collision, quantity take off)
Visual understanding

Integration with other database technology
Exchange format for production

Seamless round-tripping of data!
Always Data loss ! Compared to (proprietary formats)



BIM – Methology “the business model”

Only a fraction of project information can be handled in IFC
IFC models are not 1:1 representations of projects to be built

“The business model”

Is an additional set of process rules and programming standards that finally
make up the BuildingSmart BIM business model



Since BuildingSmart is the authority of IFC and other standards,
ACE must ask the question; Does Europe have influence on the digital future?



BIM – Questions for ACE to consider

Since the “big save” by using BIM is of hypothetical/political origin
The CEN BIM concept must be analysed in our own European context
Strategy made by the EU Taskgroup and CEN must be evaluated by a third eye

Business models must be technology neutral and independent
Adoption of a single solution is discriminatory

Higher cost for data producers due to BIM / ICT demands; IT infrastructure, hardware,
software & licensing, education, data security and liability
Clients ready to pay for these BIM services
Are clients ready? are we?

CEN/BuildingSmart BIM in current version must NOT be mandatory in EU
BIM technology are “for now” just digital tools

Thank you

