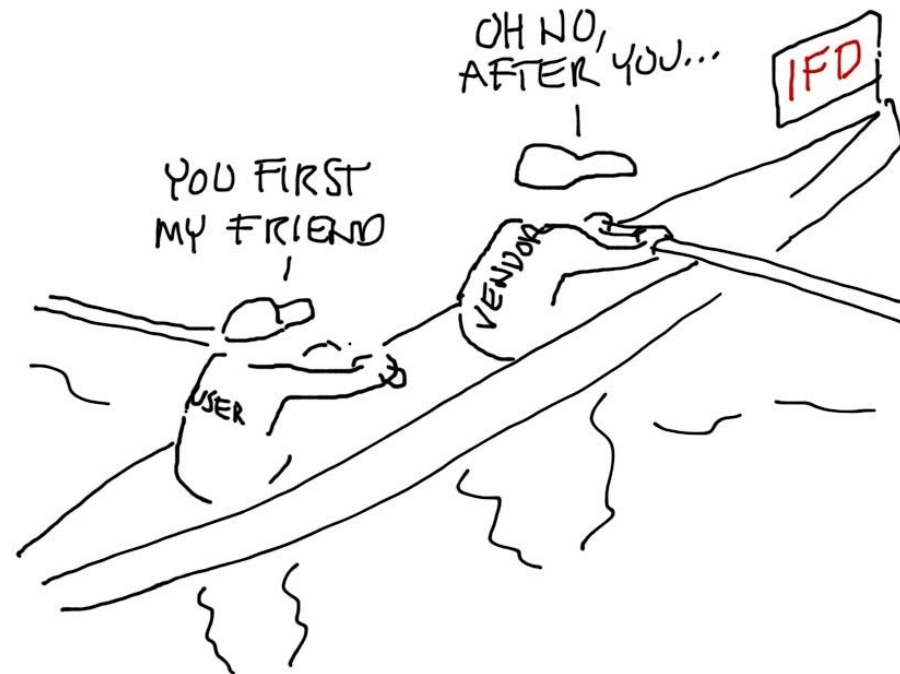


buildingSMART Data Dictionary (IFD Library)

General overview

Steen Sunesen – 9 June 2011



buildingSMART Data Dictionary (IFD Library)

General overview



buildingSMART Data Dictionary - What's in it for openBIM

- WHAT: Define all building components, internationally standardized
- HOW: Make standardized terminology computable
- WHY: Automate and quality assure many manual processes in value chain

buildingSMART Data Dictionary (IFD Library)

General overview

Mapping accross classification systems

Concept
Example



New Ahus
Regional university hospital
take up area 330.000
w/o some specialities

NS3457 (NO) 7 Health facilities
71 Hospitals
713 Regional hospitals

SSB Kartverket (NO) 7 Health facilities
71 Hospitals
719 Hospitals

BE PBL (NO) Risk Fire: ????
Energy use: Hospital
Control class: Hospital

Forsvarsbygg EBA (NO)
30 Medical services

DBK 2006 (DK) N Treatment, care
NA Treatment of illness NC Nursing
NAB Treatment building NCE Bedward

BKI (DE)
3000 Gebäude des gesundheitswesens
3200 Krankenhäuser, universitätskliniken

CI-SfB (NL) 4 Health, welfare facilities
41 Hospital facilities
411 Teaching hospitals

Uniclass (UK) D4 Medical, health, welfare facilities
D41 Medical facilities (hospitals)
D412 District general hospitals

Omniclass (US) 11-13 00 00 Public service
11-13 24 00 Health facilities
11-13 24 11 Hospital

Bygg.kl.94 (SF) F Buildings for institutional care
F21 Health care buildings
F211 General hospital

Eurostat CC (EU) 1 Building 12 Non residential
126 Public entertainment, education, hospitals
1264 Hospitals, ints. care buildings

BCA (AU) Class 9a
A health-care building, including those parts of
the building set aside as a laboratory.

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General overview

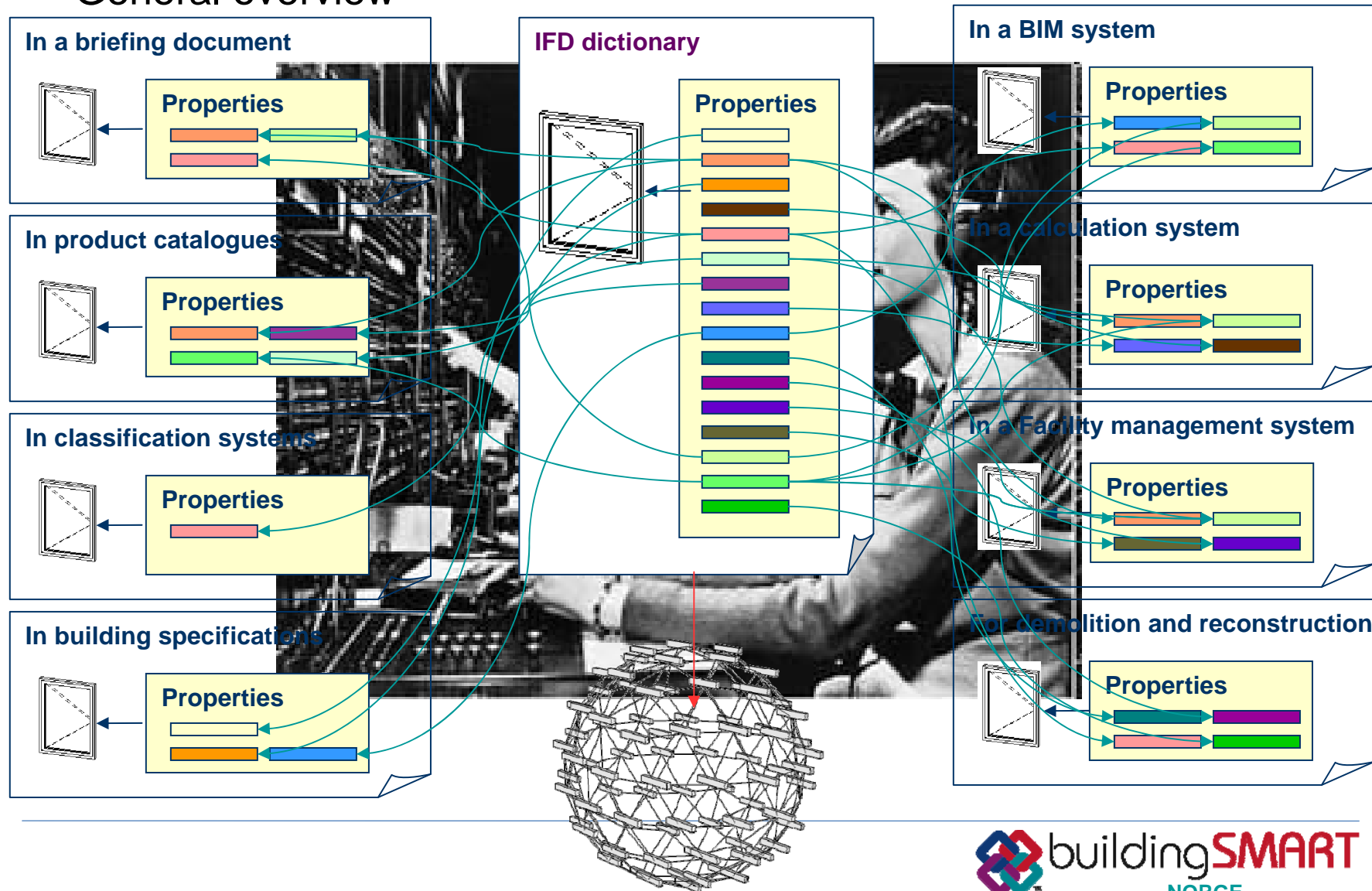
Mapping mechanism – connecting information

- **Information – so much information**
- **Structured – but structured differently**
- **Repeated multiple times**
- **Different languages**
- **Information management is complicated**
- **How to get access and connect to BIM?**
 - Cannot restructure or rebuild databases
- **Connecting – mapping**
- **Need a mapping tool - device**



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General overview

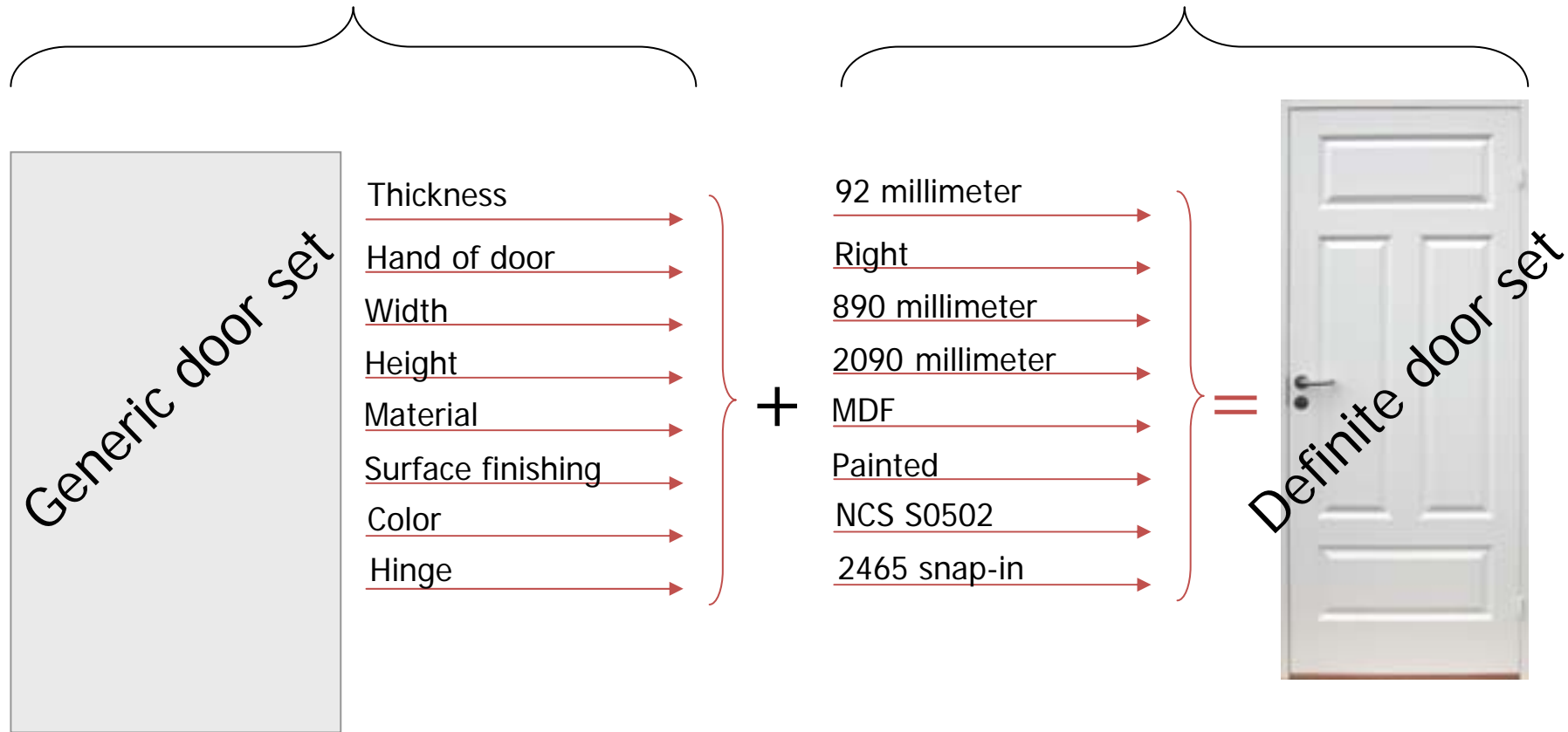


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General overview

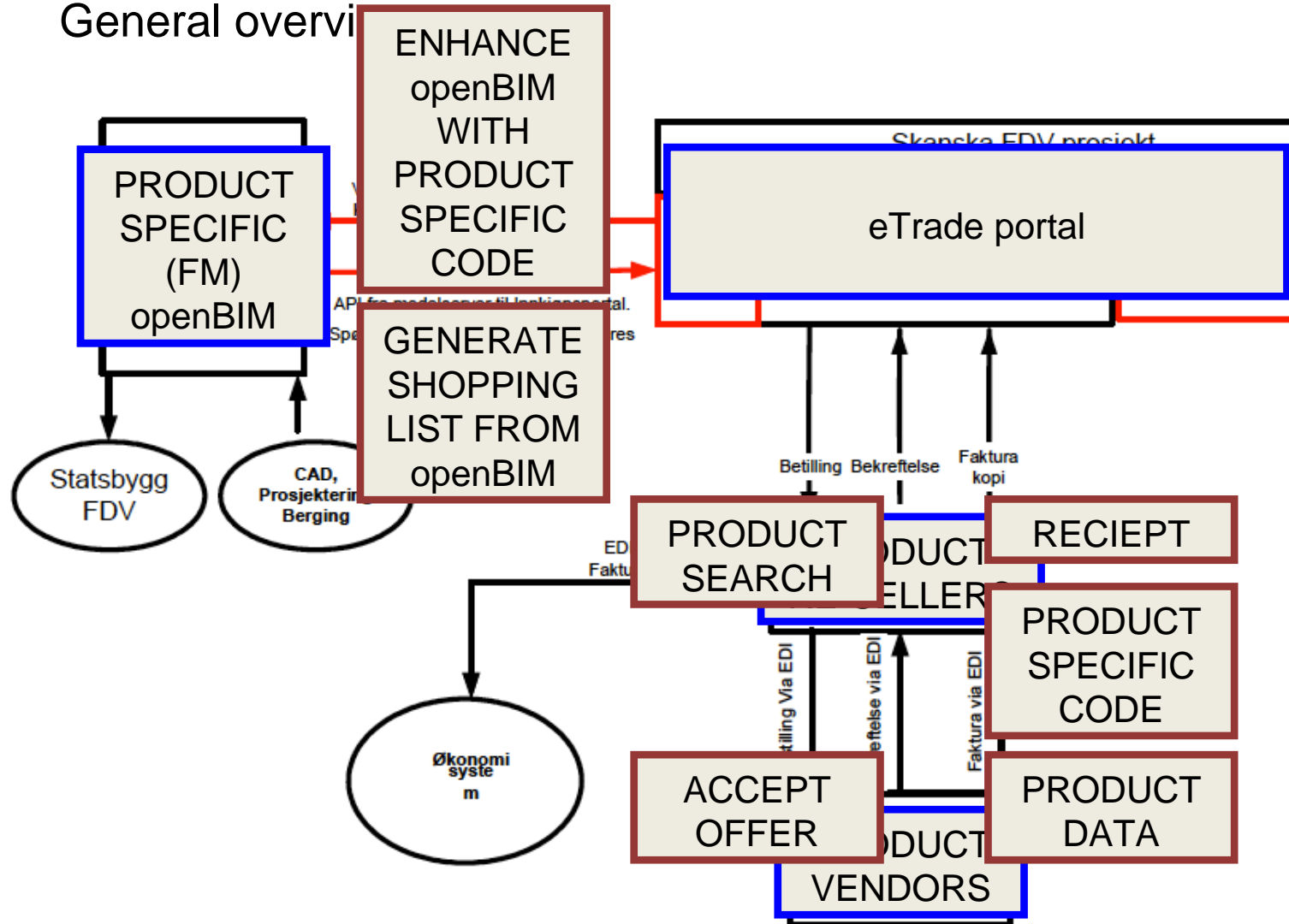
Data Dictionary

Product



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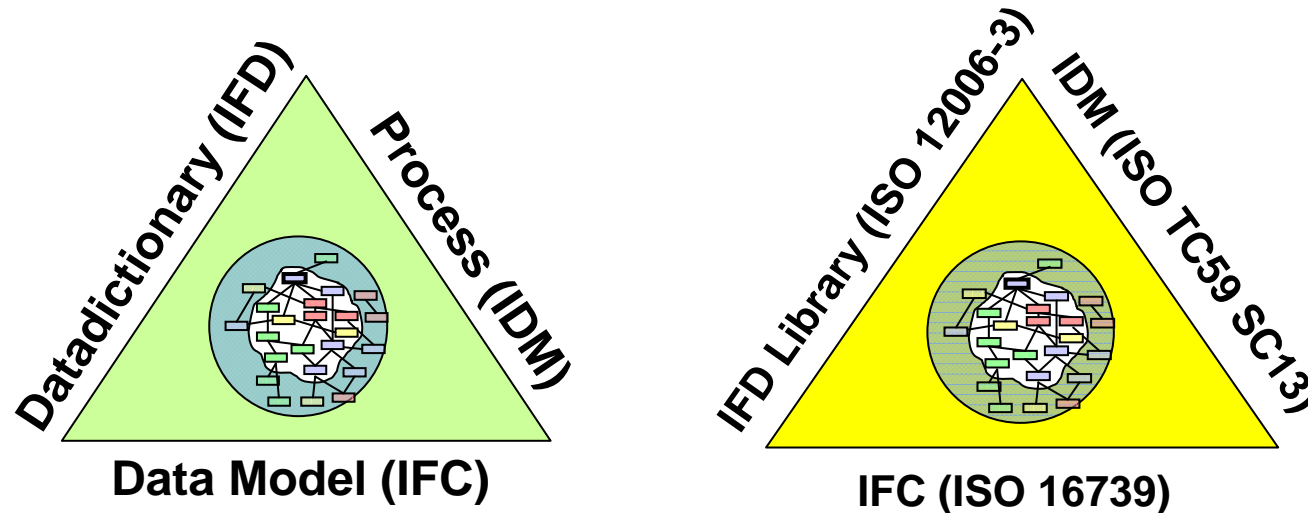
General overview



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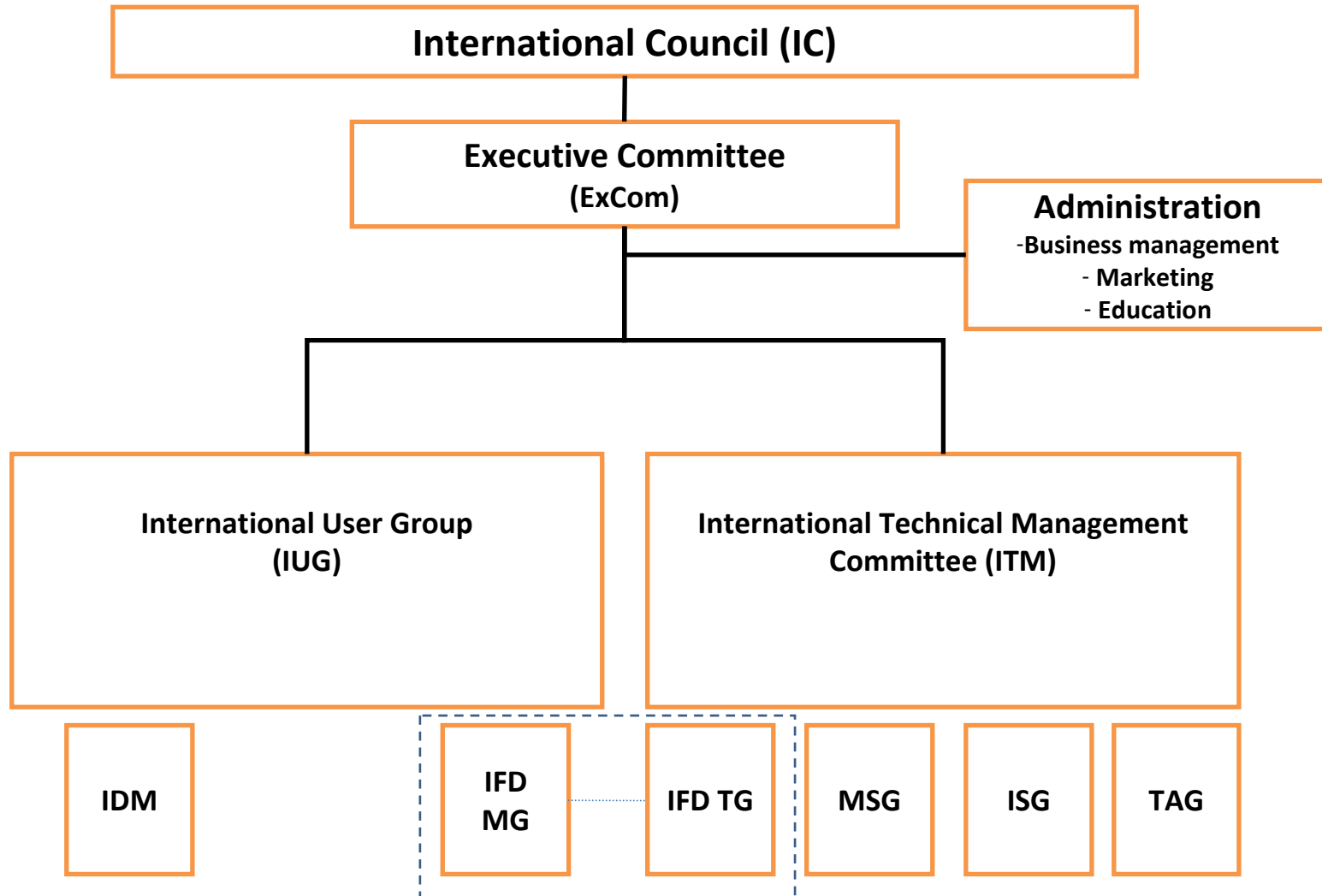
General overview

buildingSMART standards



Data Model	Digital exchange and storage. Classification of building objects. Implemented in softwares (IFC, IFC XML, Simple IFC XML)
Datadictionary	Terminology, mapping of classification systems and link BIM with the "real world".
Process	Prosess/organisasjon/leveranser (IDM)

buildingSMART Data Dictionary



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General overview

Get involved



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General overview

How to get involved

Affiliate

An organization with a Data Dictionary development project approved by partners (not use of content)

Access to .Net toolkit and document handling system (PIM)

Affiliates

- EPM Technology (Norway), Catenda (Norway), Fraunhofer IBP/CILECCTA, (Germany/Europe) and several more underway

How to become an IFD Library Affiliate

Fill out project form (www.ifd-library.org)

buildingSMART Data Dictionary (IFD Library)

General overview

How to get involved

Observer

Company/organization with interest in IFD Library

Sign up and receive information about development and open sessions

Access to .Net toolkit and document handling system (PIM)

Observers

Digicon – Canada, NATSPEC – Australia, BSD – USA, ARCOM – USA, AEC3 – UK, NBS/RIBA – UK, buildingSMART Korea, buildingSMART, Finland, buildingSMART Sweden, Autodesk and several more underway

How to become an IFD Library Observer

Fill out observer form www.ifd-library.org

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General overview

Business Plan

Financials – non profit but self supporting

Membership

- Partner € 5 000/yr
- Affiliate € 2 000/yr
- Observer € 1 000/yr

Project by project funding

Licensed product fee - proposed

- Embedded license fee – to software developers, other integrators for using buildingSMART Data Dictionary access in a product
- End-user fee – not resold embedded in software. Value added services above basic browser access

Annual charges in €	YR1	YR2	YR3	YR4	YR5
Global	0	5000	15000	30000	30000
Regional	0	2000	8000	15000	15000
National	0	1000	3000	5000	5000

buildingSMART Data Dictionary (IFD Library)

General overview

Involvement on a national level

IFD Library Group and bS Intl. encourage to establish national user groups

IFD Library Group – establish template for national user groups

Norwegian bS Datadictionary User Group

- Managed by Standards Norway
- Follow principles of standardization committees
- Appr. 20 members, increasing

User group discuss

- Content development
- Implementation
- International agenda
- Norwegian comments on issues discussed internationally

buildingSMART Data Dictionary (IFD Library)

General overview

More information

<http://www.ifd-library.org>

- IFD Library website

<http://dev.ifd-library.org/>

- The IFD Library technical documentation

Recourses

- IFD Library Charter
- IFD Library Business Plan
- IFD Library White Paper
- IFD Library Use Case Paper
- IFD Library Technical Tools