



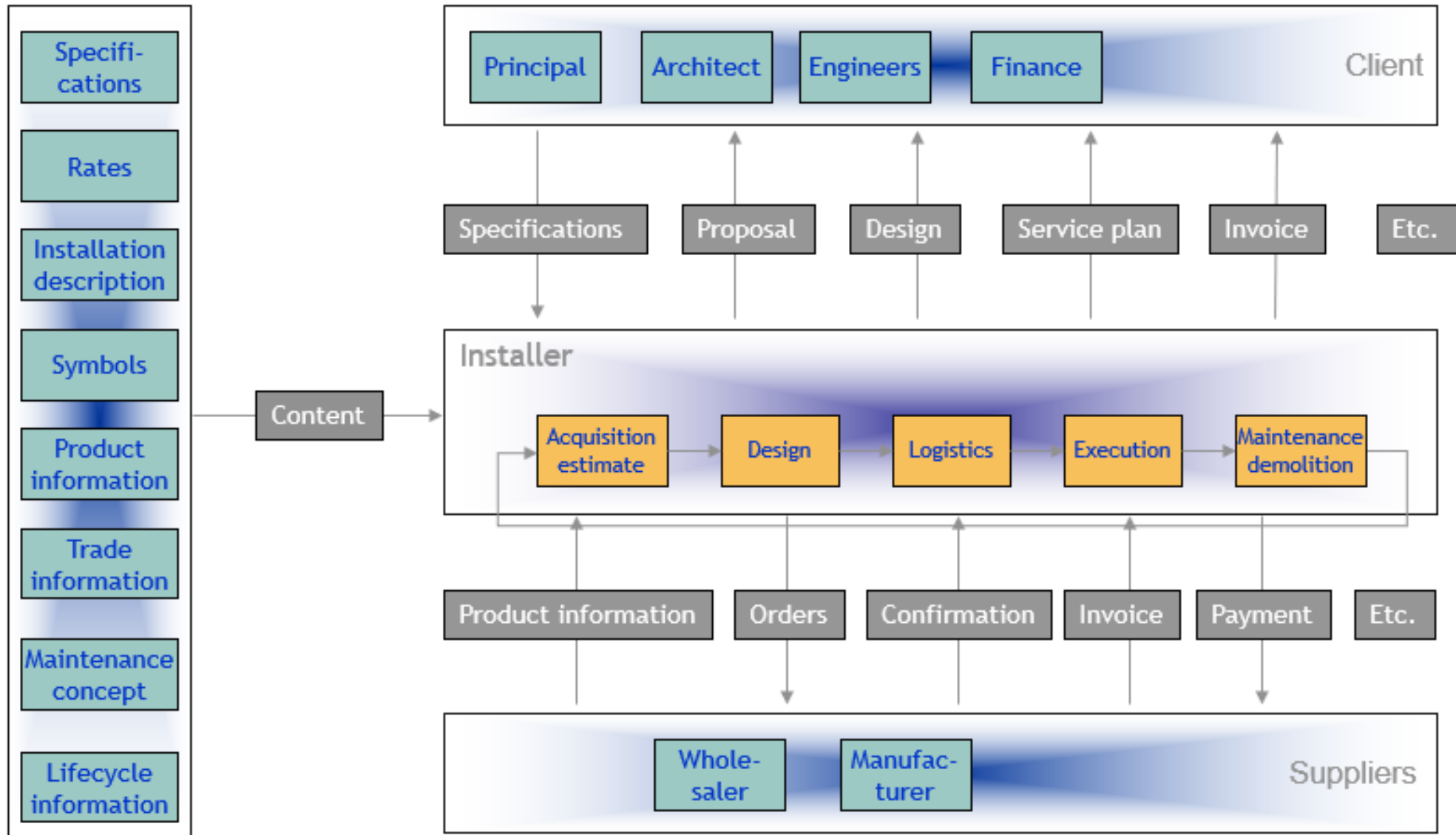
The state of ETIM

*The story of a slow but
steadily growing data
diamond*





ETIM
International







ETIM
Deutschland

1999



ETIM
International



ETIM
International



1997

2001

2002

2003



*european union
of electrical wholesalers*



ETIM
International

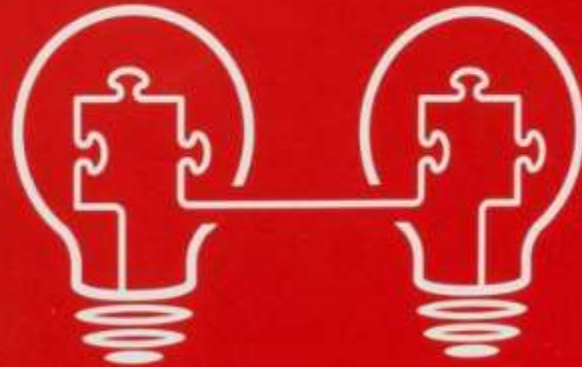
2004 – EEF

ETIM Europe Foundation





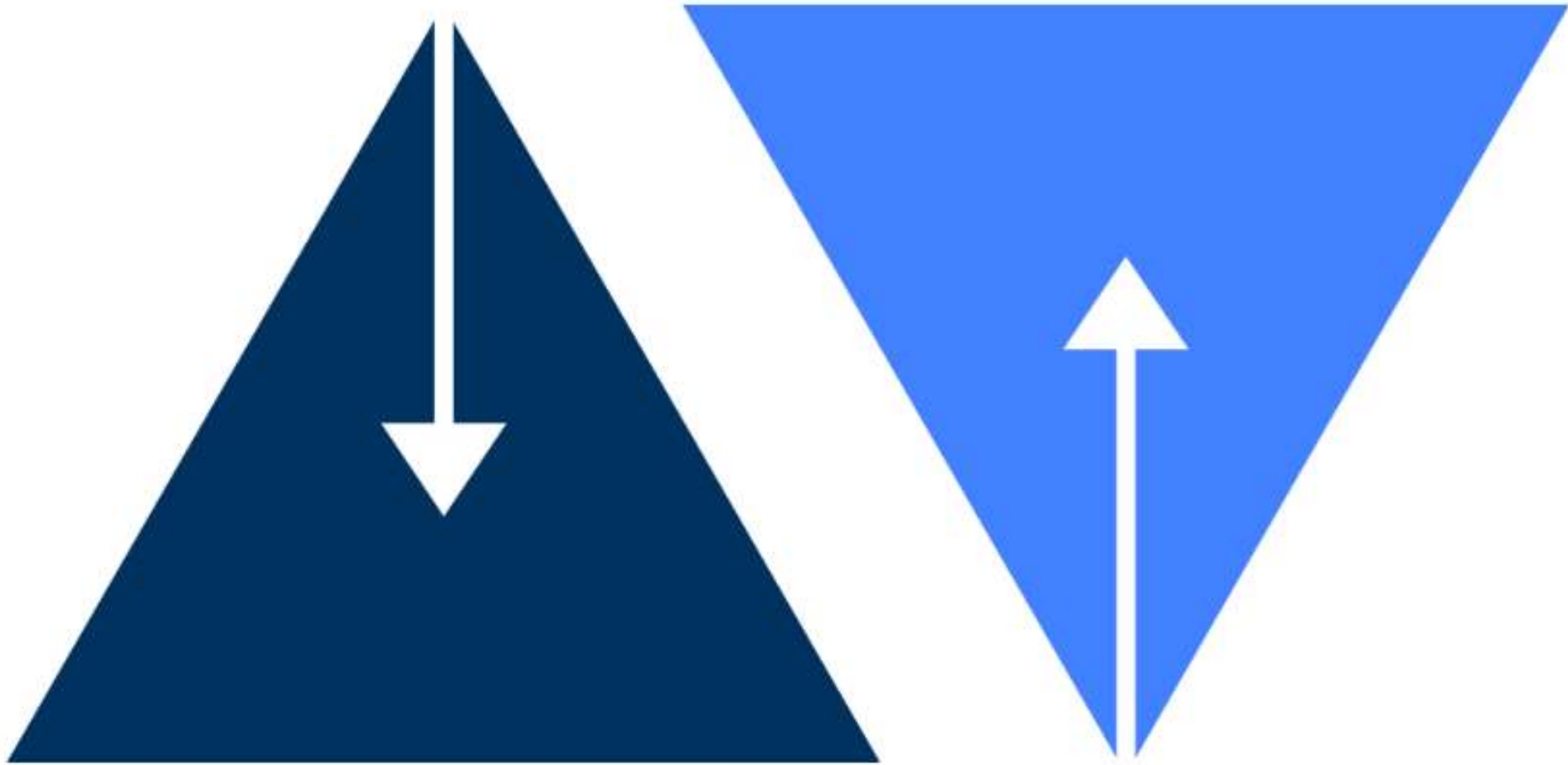
NOT INVENTED HERE



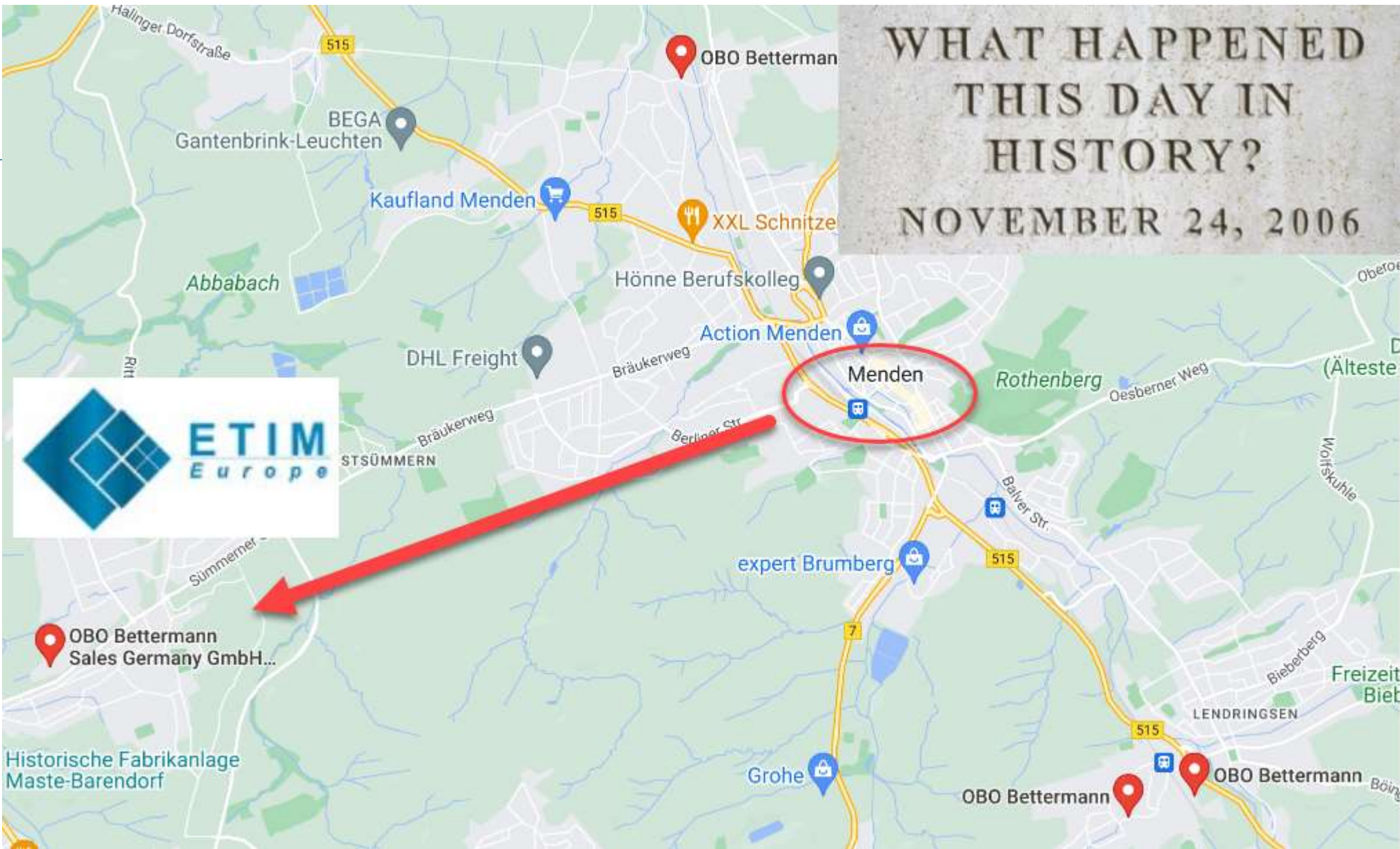


~~Current~~ version: ETIM 3.0

- **ETIM 3.0 published June 2005**
 - Germany and The Netherlands
- **ETIM 3.0 facts**
 - Classes 2174
 - Features 5447
 - Attributes 6099
 - Synonyms 21279
 - In German, Dutch and English
- **BMEcat as standard interface**
 - Common suppliers guide for all wholesalers in Germany



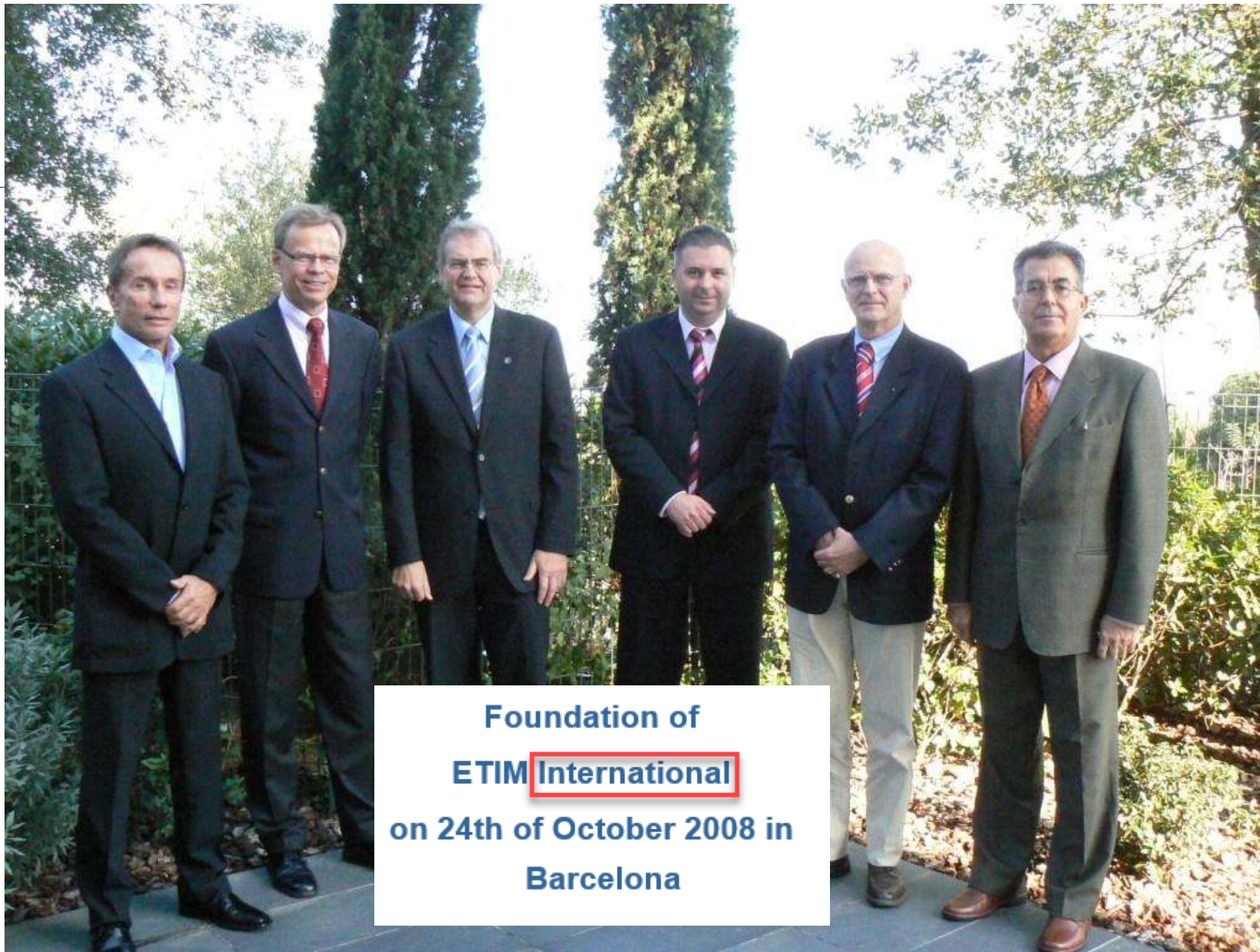
WHAT HAPPENED
THIS DAY IN
HISTORY?
NOVEMBER 24, 2006



Agenda for this meeting:

11:00	Opening and welcome	Andreas Bettermann
11:10	Introduction of the participants	All
11.20	Status ETIM in Germany and the Netherlands	Franz Ernst-Marc Habets
11.40	Concept community of interests ETIM Europe	Franz Ernst
12.00	Introduction ETIM Europe database and website	Marc Habets
12.15	Inventory of discussion items	All
12:30	Lunch	
14:00	Discussion	All
15:00	Letter of Intent	All
15.30	End of the meeting	





**Foundation of
ETIM International
on 24th of October 2008 in
Barcelona**





ETIM=?

Abbreviation Finder

Acronym	Definition
ETIM	Electro-Technical Information Model
ETIM	East Turkestan Islamic Movement
ETIM	SEE ALL >>
ETIM	SEE ALL >>





TC Oslo 2017

First TC was in Brussels 2013



ETIM
International



GRUNDFOS 

Prysmian
Group

SIEMENS


sonepar

Schneider
Electric

REXEL



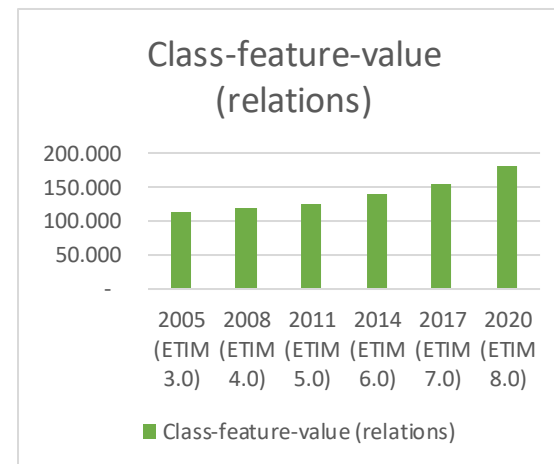
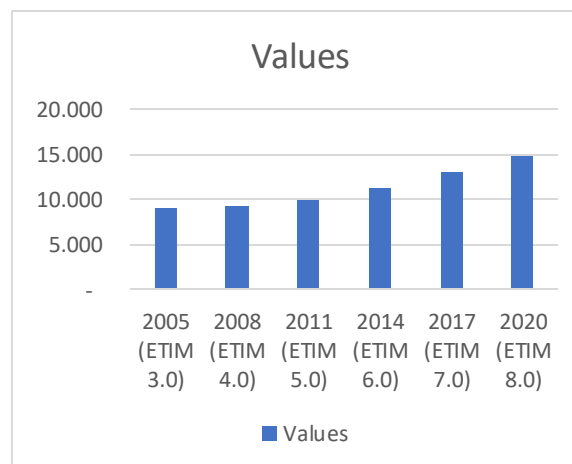
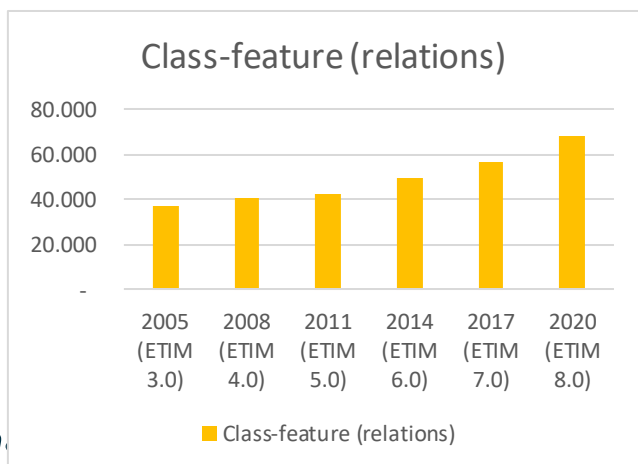
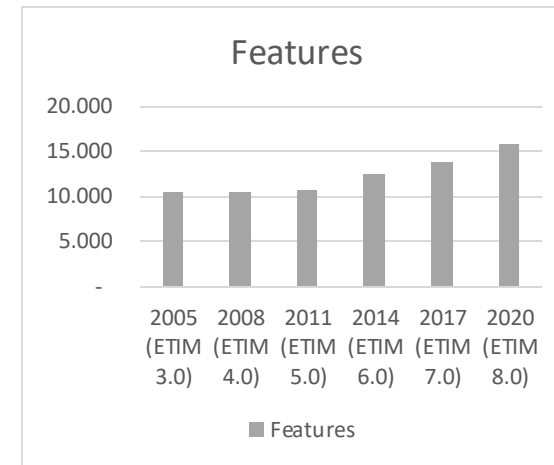
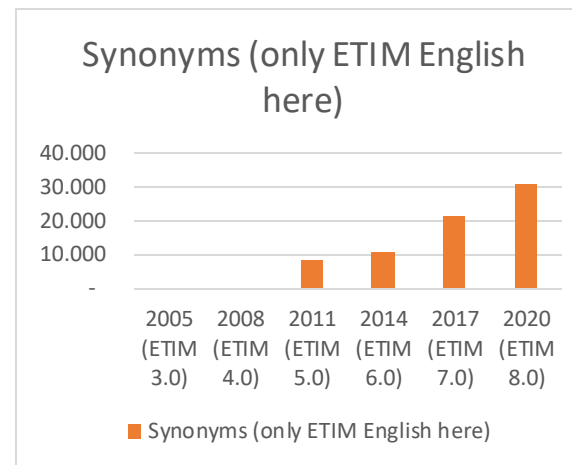
ETIM 8.0
5415 classes

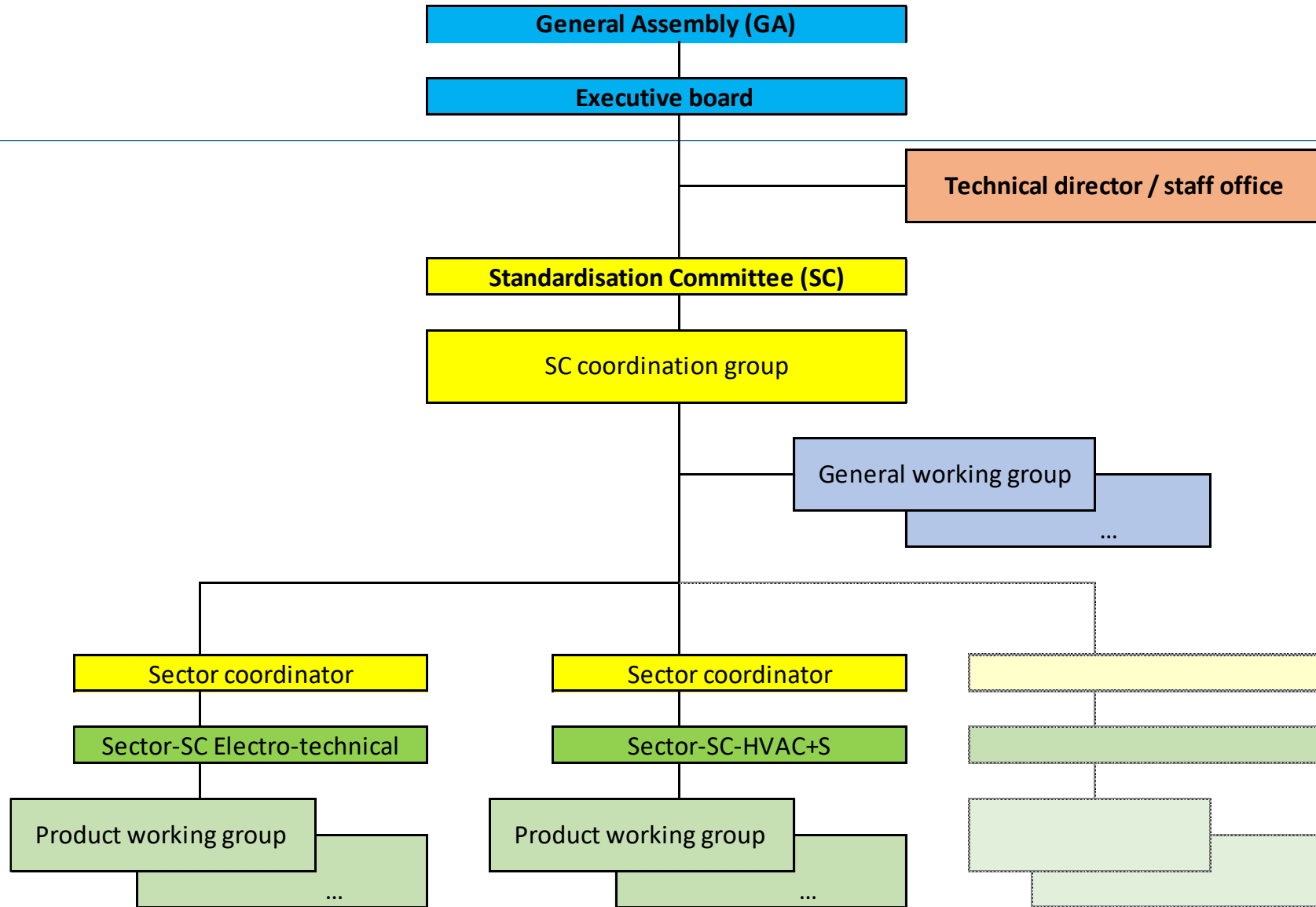


Development ETIM-model



Numbers	2005 (ETIM 3.0)	2008 (ETIM 4.0)	2011 (ETIM 5.0)	2014 (ETIM 6.0)	2017 (ETIM 7.0)	2020 (ETIM 8.0)
Classes	3.487	3.584	3.732	4.395	4.725	5.416
Synonyms (only ETIM English here)			8.318	10.837	21.565	30.605
Features	10.423	10.394	10.795	12.426	13.752	15.748
Class-feature (relations)	36.902	40.535	42.769	49.364	56.628	68.258
Values	9.023	9.246	9.887	11.311	13.047	14.796
Class-feature-value (relations)	112.350	119.841	125.280	139.764	155.698	182.303









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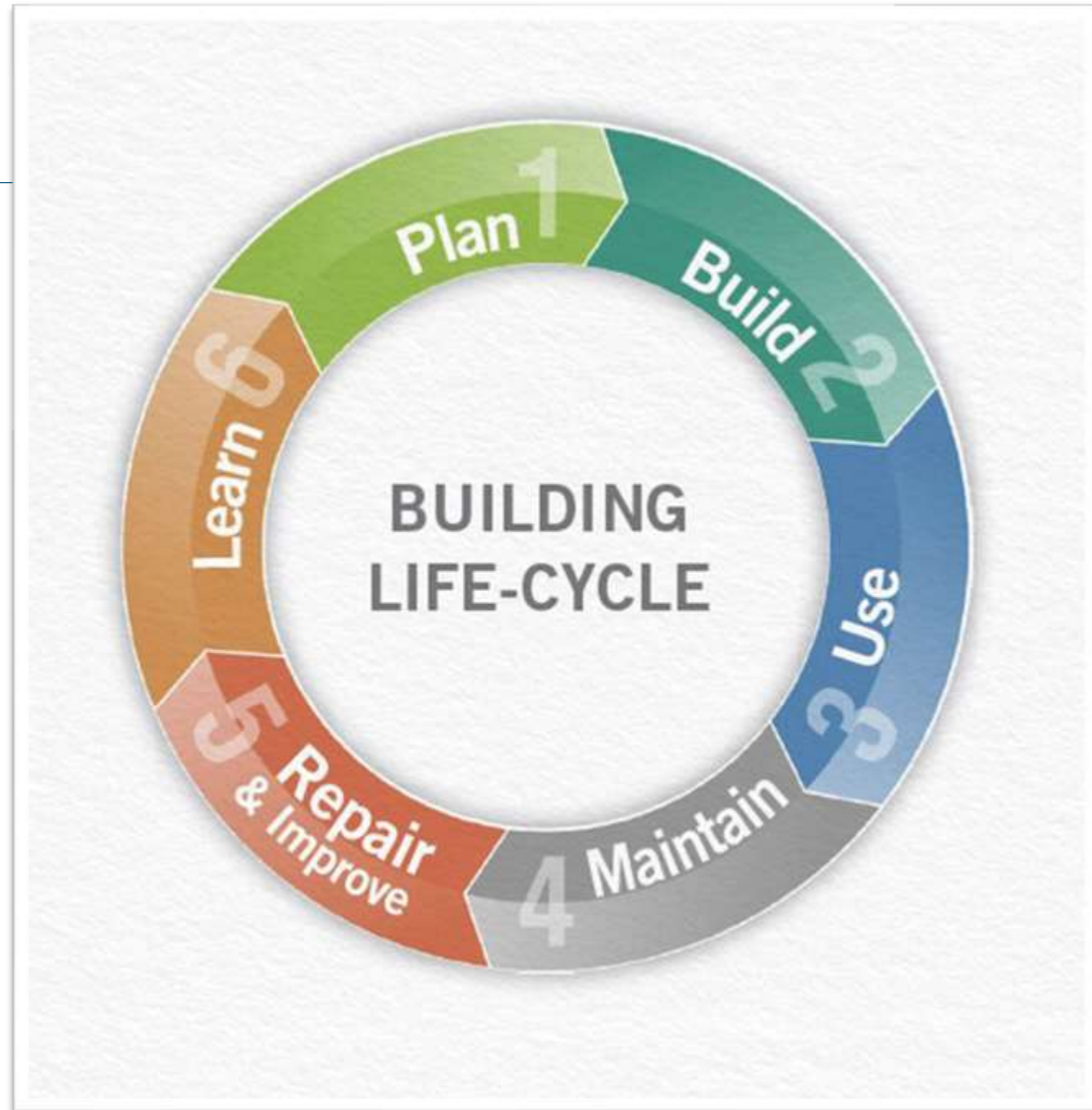


ETIM Modelling Classes

*Standardised
geometric parameters
for data driven BIM objects.*

Building life cycle

- *There are different information needs in every phase of this cycle*





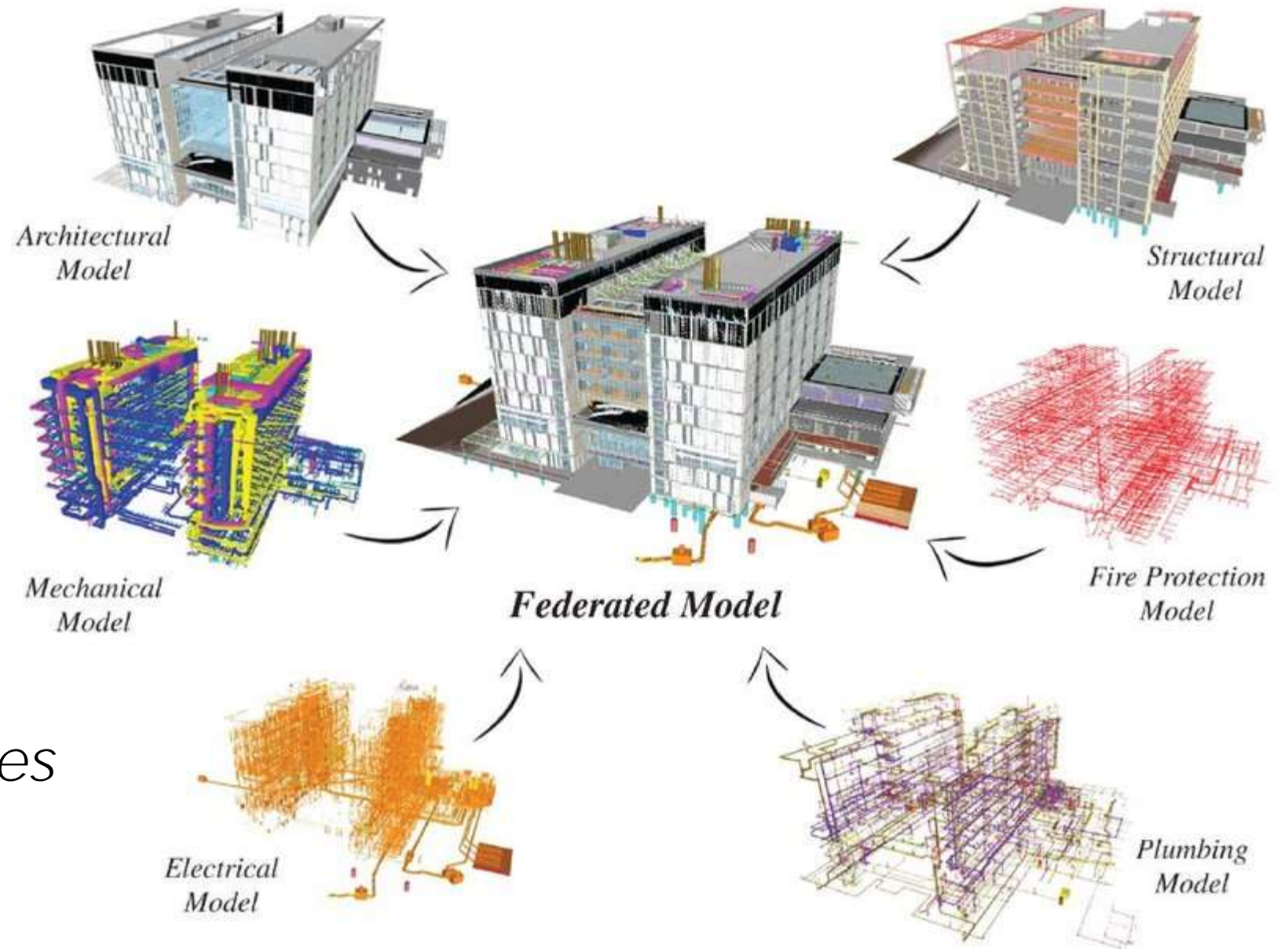
Adobe Stock | #191229458



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International

BIM Model

- *Building*
- *Information*
- *Modelling*
- *Collaboration*
- *Eliminate mistakes*
- *Optimization*



Information stages of a building

- *Conceptual design*
- *Preliminary design*
- *Final design*
- *Technical design*
- *Pre-build design*
- *As-built model*
- *As-maintained model*

“The design changes with every step in the process”

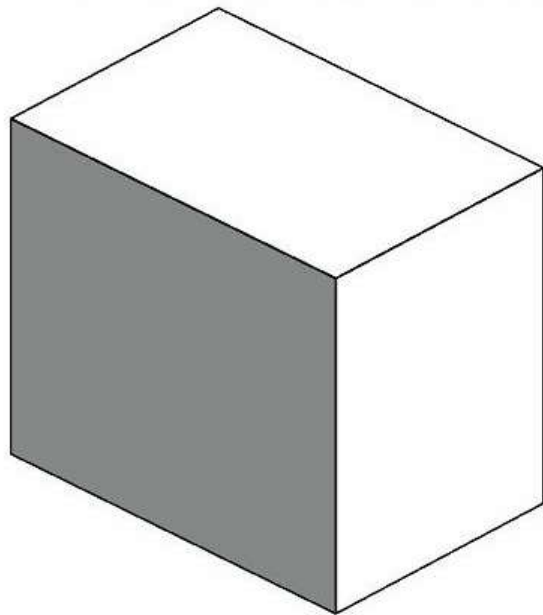
BIM Dimensions

- *Every dimension adds an extra layer of information needed*

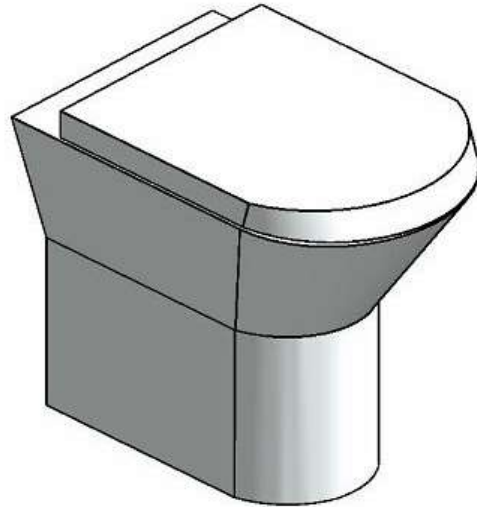


Level of detail (LOD)

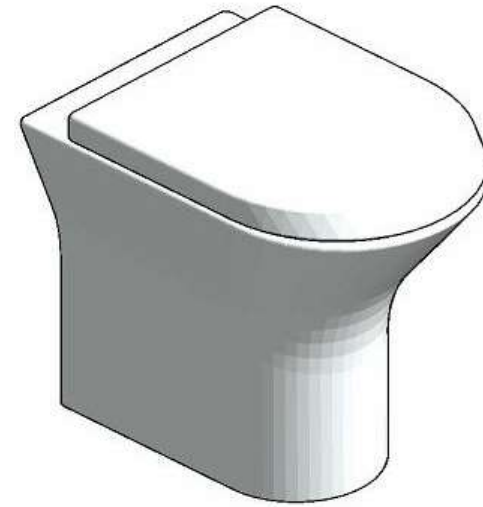
- ***The finer the model, the more coffee you can drink...***



coarse



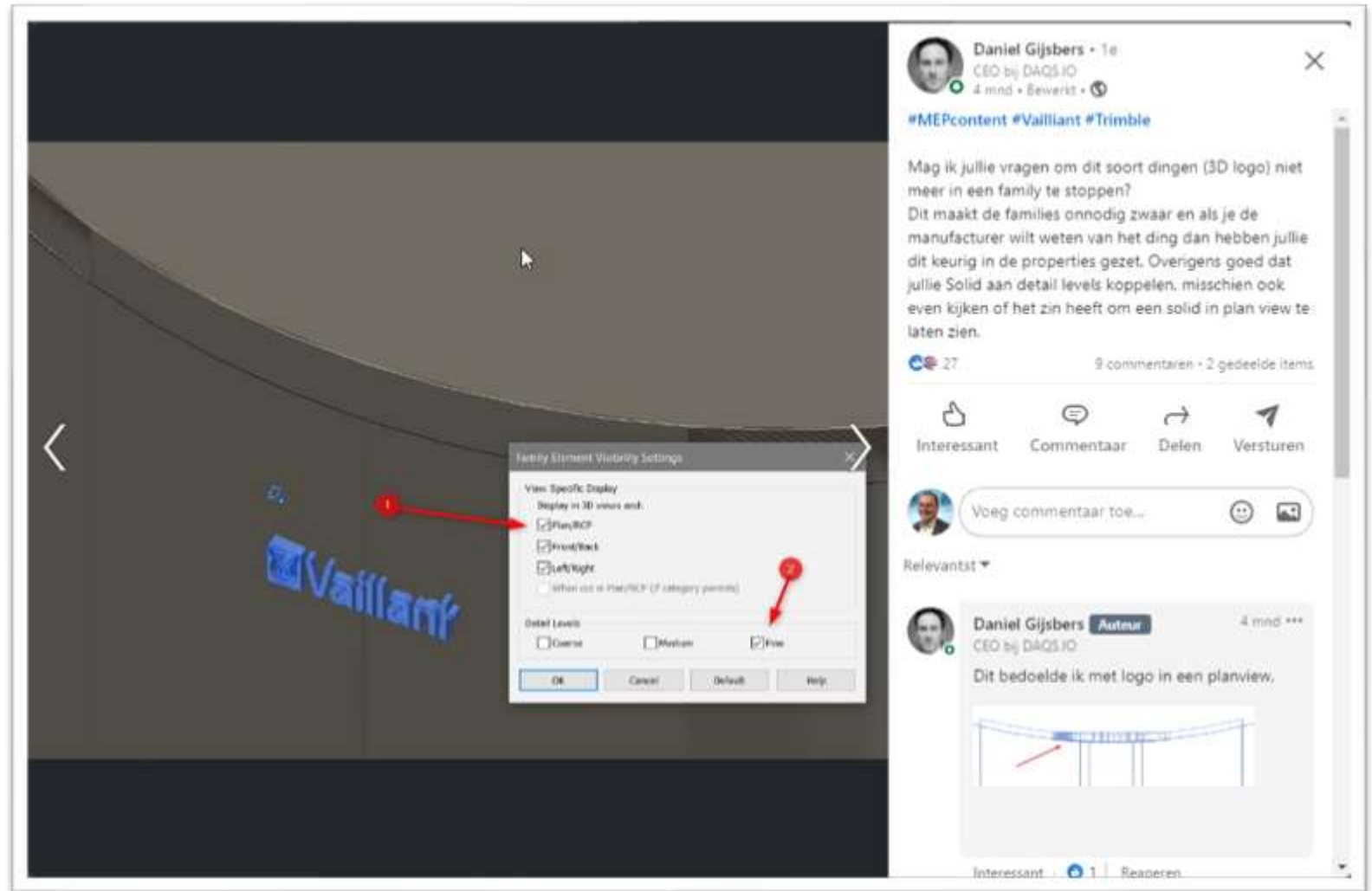
medium



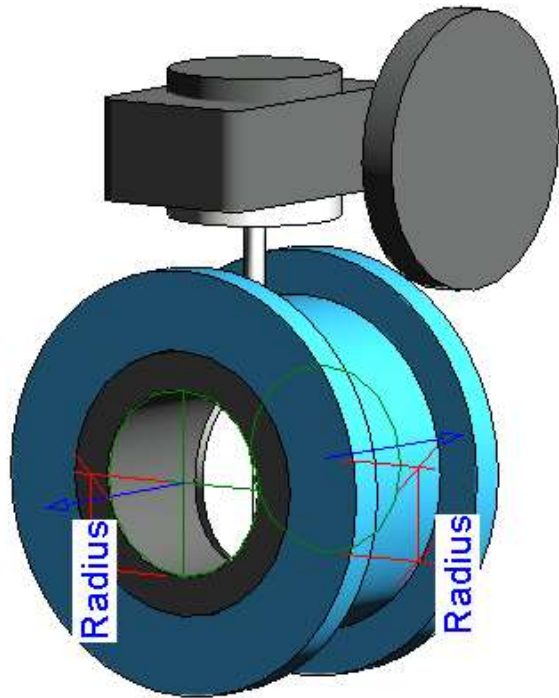
fine

Level of too much detail..

Engineer sends a cry for help on LinkedIn not to put in 3D logos into BIM objects. As this kills performance in BIM models....



What should a BIM object look like?



+



- Geometry in 3D that resembles its *physical appearance*
- Contains as much *DATA* as possible
- Can be imported into BIM software
- Preferably as a *parametric family*
- *Validated, up to date*

4 reasons why every manufacturer needs to get into BIM



Sarah Chase 29 March 2021

Every year, architects, engineers and interior designers specify millions of products and building materials worth billions of EUR in sales. But how can you tap into that goldmine and get on their shortlist? The answer lies in BIM.

Why BIM bumps the likelihood of getting specified

Specifications are the golden goose for manufacturers. But if you want to get in, you have to get your products and the information into the right hands.

Manufacturers, we need you in BIM!



Let's start off with a brief look at what BIM is. The purpose of BIM is to give each actor just the information they need at just the right time throughout a building's lifecycle to support its effective design, creation, and use.

- **The "B" in BIM stands for "Building"** – since it's about methods and technologies for the effective design, creation, and use of buildings.
- **The "I" in BIM stands for "Information"** – the 3D representations and non-graphical data in the digital model of a building. It's the key to managing a building throughout its lifecycle.
 - Besides 3D information – for design, engineering, and production – there's also
 - 4D information that incorporates time (scheduling, planning, and control),
 - 5D which adds costs and analysis,

The challenges in BIM modelling

Manufacturer:

"I like to supply content"

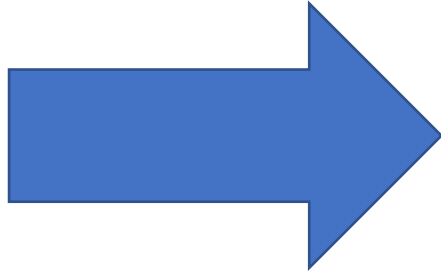
- There are 40+ different file formats?!?*
- In every country a different BIM standard for data*
- BIM technology is constantly evolving*
- Ends up spending too much with achieving too little*

Contractor:

"I need content!"

- Scraping the internet in search of content*
- Never in the right format*
- Old, non-compatible files*
- Missing data*
- Ends up re-drawing every single object for use in their own content library*



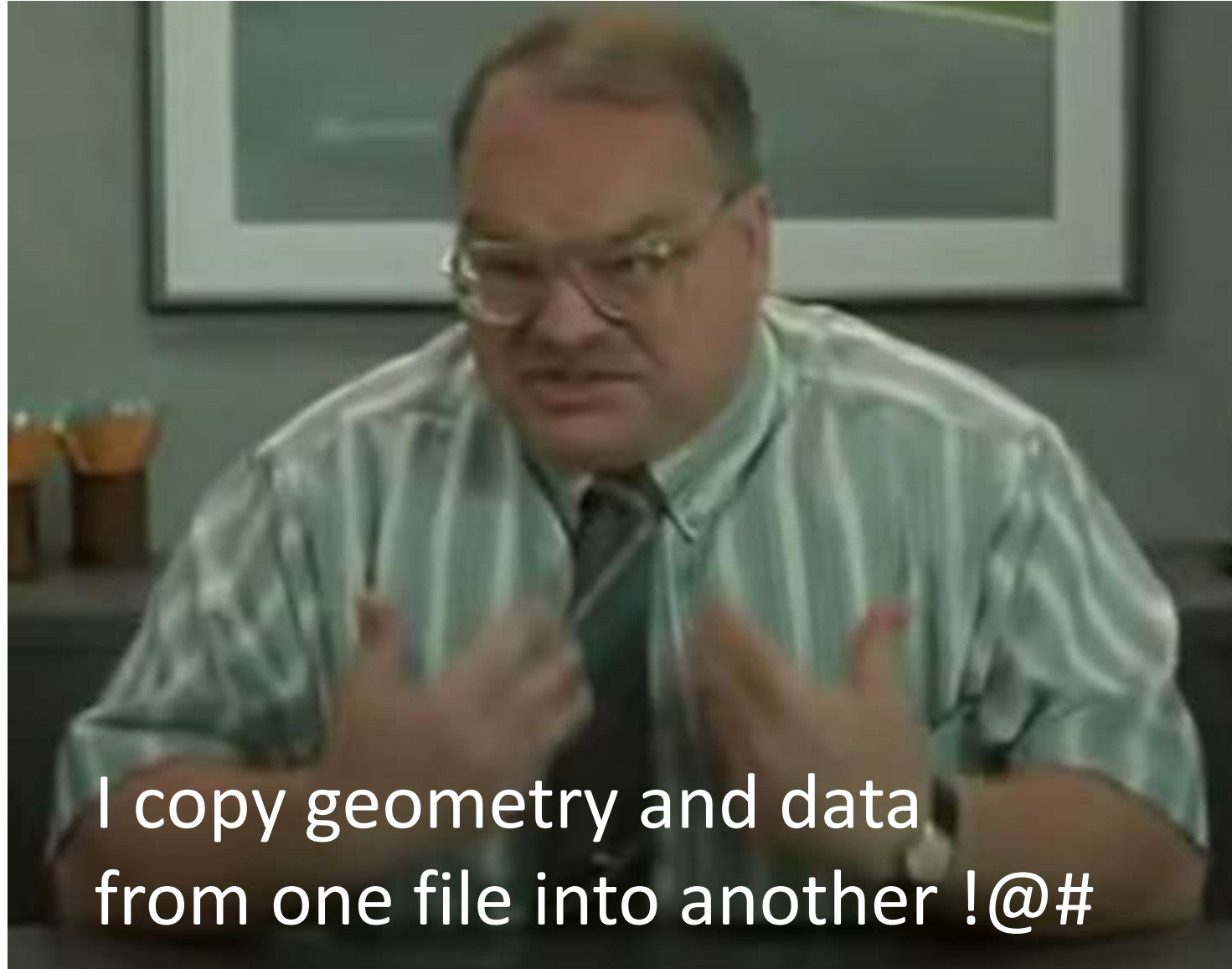


ETIM
International



What would you say... you DO here?

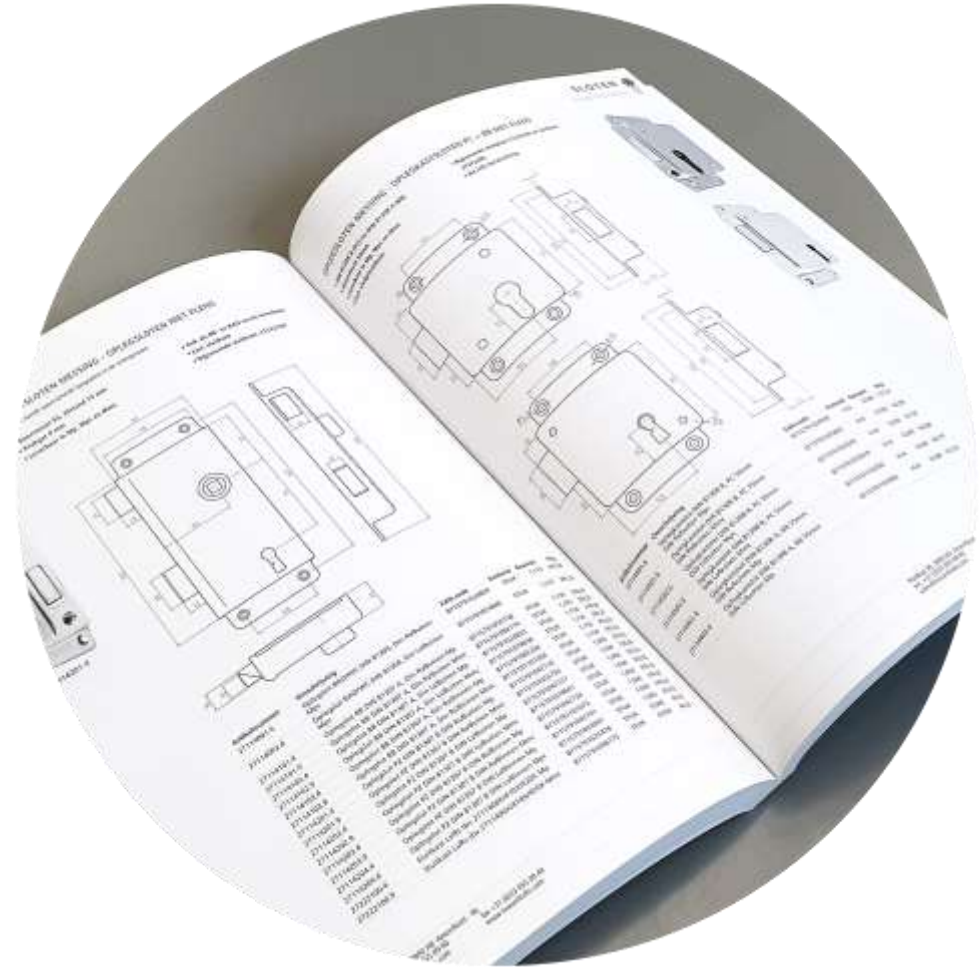
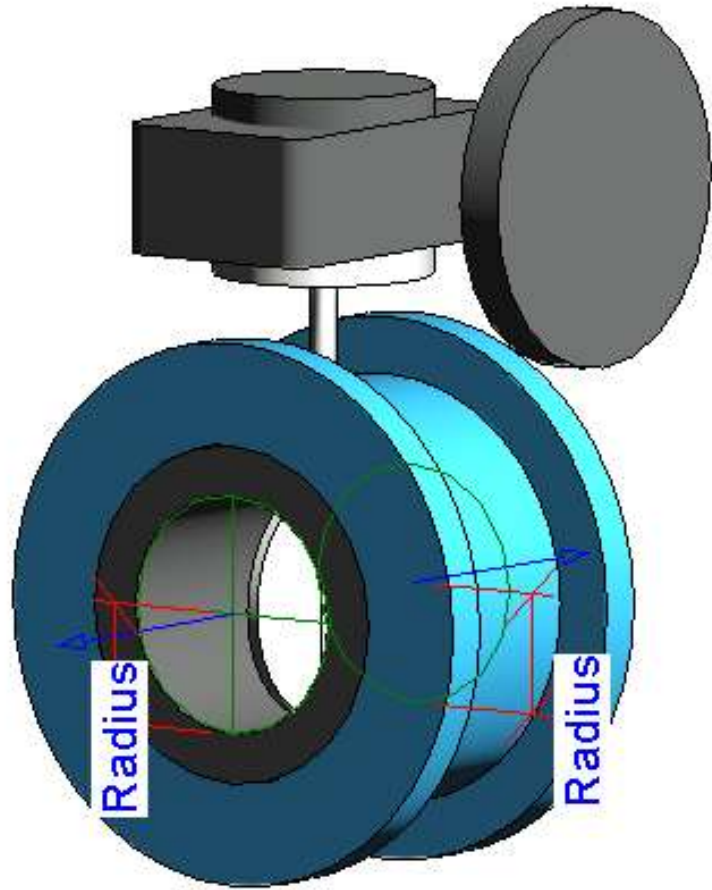
<https://youtu.be/m4OvQIGDg4I>



I copy geometry and data
from one file into another !@#

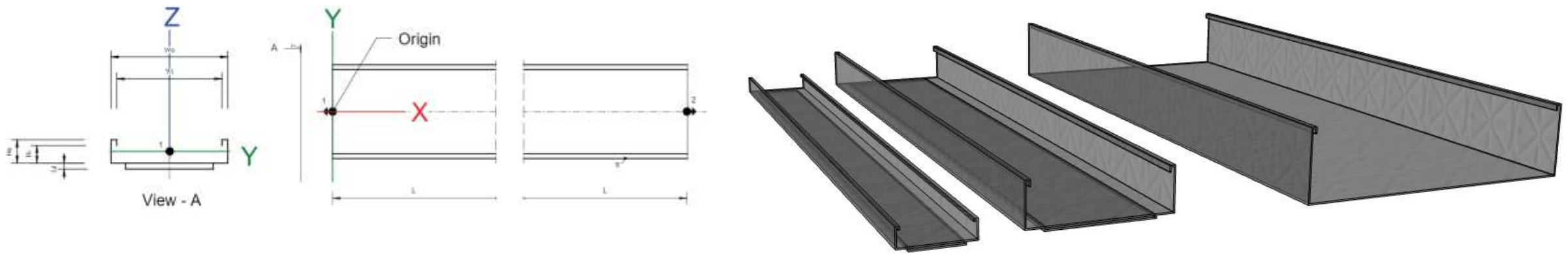


ETIM
International



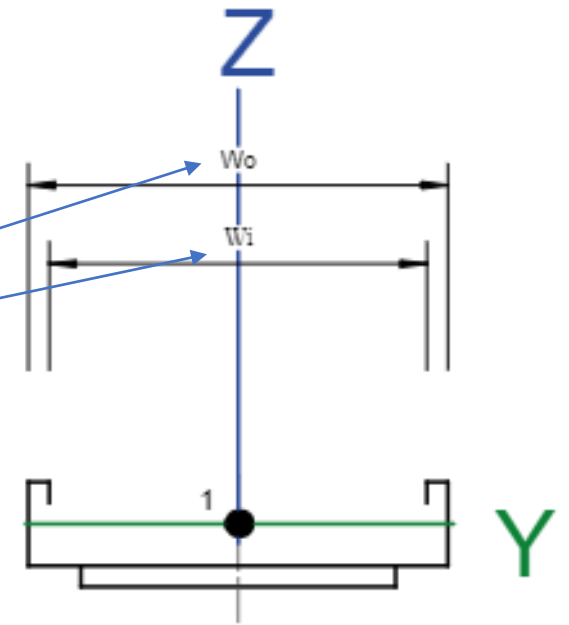
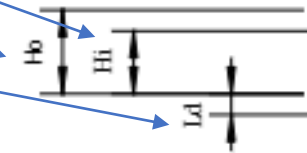


Parametric Object of a cable tray

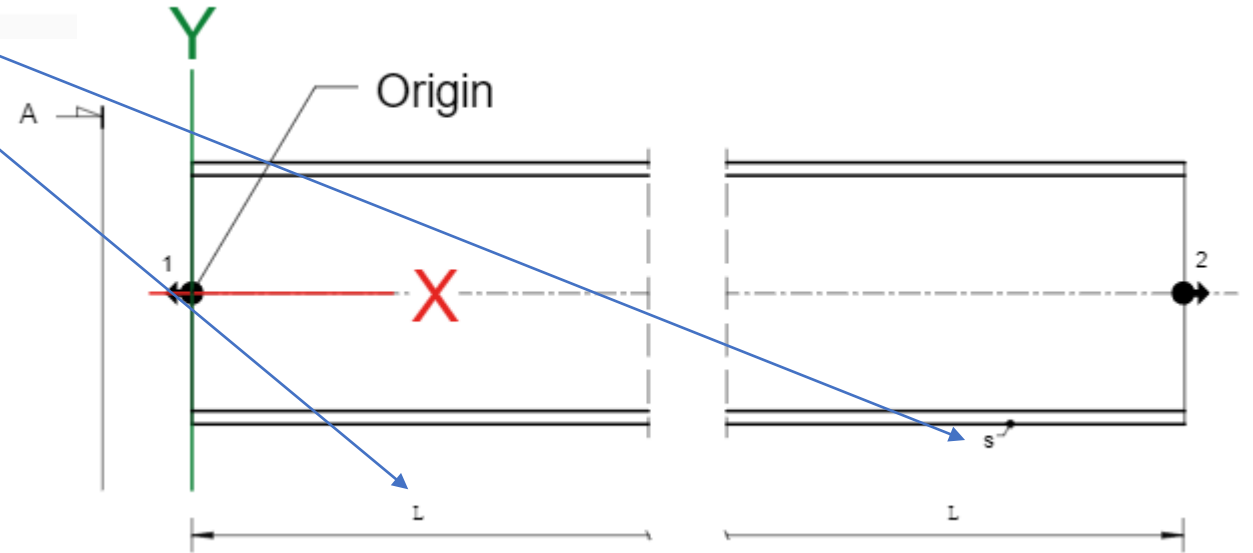


Artnr	Height (Ho)	Width (Wo)	Length (L)	Material thickness (s)	Inner Height (Hi)	Inner Width (Wi)	Length push through section (Ld)
CT100	25	100	1000	2	23	88	4
CT200	60	200	1000	2	56	184	4
CT400	100	400	1000	2	96	384	0

Def	Code	Drawing code	Description	Type	Unit
1	EF010059	Hi	Inner height	N	mm
2	EF000040	Ho	Height	N	mm
3	EF001438	L	Length	N	mm
4	EF010859	Ld	Length push through section	N	mm
5	EF000386	s	Material thickness	N	mm
6	EF010004	Wi	Inner width	N	mm
7	EF000008	Wo	Width	N	mm



View - A

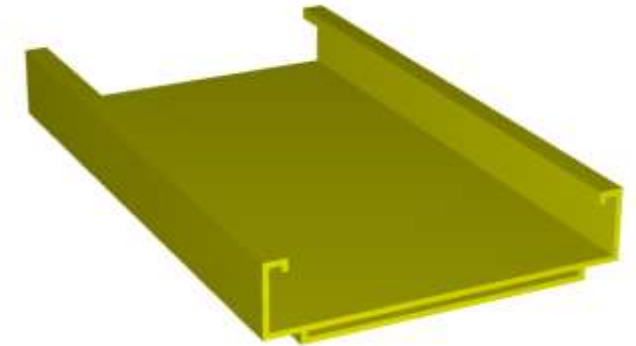


Data driven BIM objects from ETIM data

- *Separate style from content*
- *Software independent*
- *Manufacturer only supplies data*
- *BIM modellers can use any file format, technology, software platform of their choice.*
- *All ETIM data available at their fingertips*



ETIM Productklasse	Kabelgoot
ETIM Modelleerklasse	Kabelgoot (zonder dekset)
Fabrikant	Legrand Nederland
Merk	Legrand
Serie	ISPL
Type	-
GTIN	03245066378305
Productcode	637830
GLN	87141461999999
Status	126
Gewicht	6,501 Kilogram
Voorganger	-
Opvolger	-



Leverancier	Artikelnr.	Omschrijving	Inhoud	Bruto	Netto	Verraad
legrand	637830	Legrand kg ISPL... 3 Meter (Zwarte)		€ 1,-	€ 1,-	
DINAMIC B.V.	6000275047	16 600027507... 3 Stuk		€ 1,-	€ 1,-	
DTC	221479	JET kg ISPL... 3 Meter (Zwarte)		€ 1,-	€ 1,-	
Elmet	324039	LEGAND KG ISPL... 3 Meter (Zwarte)		€ 1,-	€ 1,-	
Lampson	200027079	Legrand kg ISPL... 3 Meter (Zwarte)		€ 1,-	€ 1,-	
Kabelbouw	145700	Legrand kg ISPL... 3 Stuk (Zwarte)		€ 1,-	€ 1,-	
FDU	200027079	Legrand kg ISPL... 3 Meter (Zwarte)		€ 1,-	€ 1,-	
X	200027079	16 LEGAND KG... 3 Stuk (Zwarte)		€ 1,-	€ 1,-	
itsme	0041200	637830 LEGAND... 3 Stuk (Zwarte)		€ 1,-	€ 1,-	●
OOSTERBERG	117604	LEGAND 637830... 3 Meter (Zwarte)		€ 1,-	€ 1,-	●
HEXEL	200027079	637830 KG ISPL... 3 Meter (Zwarte)		€ 1,-	€ 1,-	●
SALO	637830	Legrand 637830... 3 Meter (Zwarte)		€ 1,-	€ 1,-	
Sneeck	200027079	637830 LEGAND... 3 Meter (Zwarte)		€ 1,-	€ 1,-	
solar	117604	LEGAND 637830... 3 Stuk (Zwarte)		€ 1,-	€ 1,-	●
Technische Groep	637830	LEGAND 637830... 3 Meter (Zwarte)		€ 1,-	€ 1,-	●
TGH	200027079	637830 LEGAND... 3 Meter (Zwarte)		€ 1,-	€ 1,-	
Vest	200027079	LEGAND 637830... 3 Meter (Zwarte)		€ 1,-	€ 1,-	●
Vest	1700-022	Legrand kg ISPL... 3 Meter (Zwarte)		€ 1,-	€ 1,-	●



Data driven BIM objects from ETIM data

- *Separate style from content*
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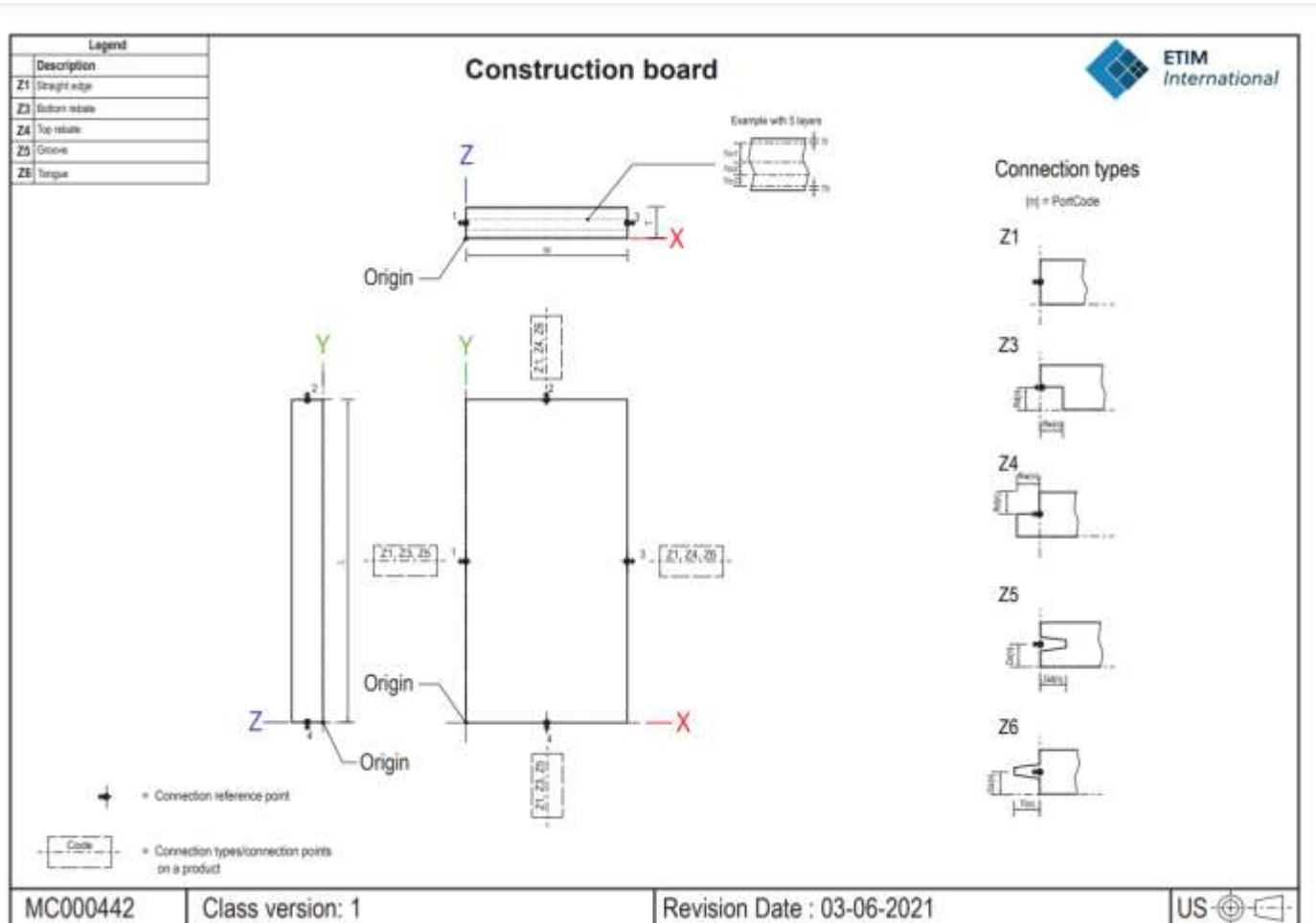
CE



ETIM Productklasse	Membraandrukexpansievat
ETIM Modelleerklasse	Membraandrukexpansievat verticaal hangen
Fabrikant	Flamco
Merk	Flamco
Serie	Expansion vessels heating & cooling
Type	Heating Clench ring Vessel [3bar]
GTIN	08712874169173
Productcode	16917
GLN	8712874000001
Status	126
Gewicht	3,366 Kilogram
Voorganger	16019
Opvolger	-



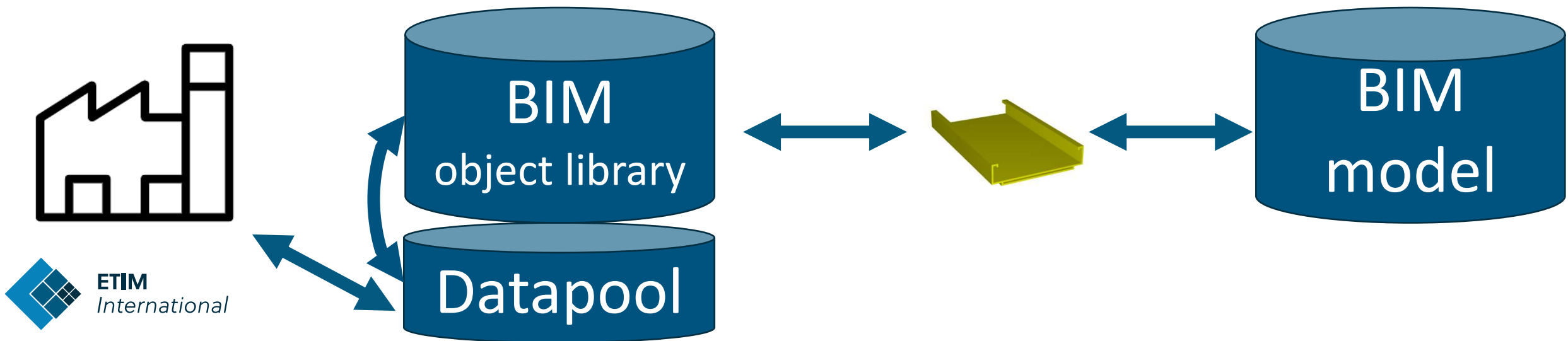
Construction board



- Any board-shaped product can be drawn by connecting a set of sizes from its manufacturer.
- On top of its regular ETIM data
- Linked to 14 ETIM classes

Always up to date

- *Start with generic model*
- *Load with candidate specific product*
- *Update and validate later in the process*
- *Easily find alternatives*



Benefits of using ETIM MC

- *BIM modeller / Consultant / Contractor / Installer:*
 - *Getting BIM objects like they want, with up to date, validated data from manufacturer.*
 - *Start with a generic object, make it supplier-specific later simply by loading a set of ETIM data. Search for replacement based on ETIM class and feature specification.*
 - *Re-validate BIM objects: live updates of parameters from datapool.*

Benefits of using ETIM MC

- *Manufacturer :*
 - *Only supply data through **existing ETIM workflow**, huge **cost savings** on maintaining BIM object libraries..*
 - ***Relieved from** keeping up with **BIM** technology developments.*
(not core business).
 - ***Direct influence** on existing BIM models.*
(by updating their data).

Benefits of using ETIM MC

- *Wholesale :*
 - *Digitally connecting ecommerce platforms to BIM models.*
 - *Assuring technical compatibility of offered products through the ETIM model.*
 - *Connecting directly into BIM models opens up a huge potential on optimizing on-site logistics.*



ETIM MC as a standard

*What does it mean to manage
ETIM MC as an international
standard?*

As platforms are being built..

open UOB VOOR WIE UOB FAQ AGENDA DOE MEE NIEUWS UW FEEDBACK CONTACT

EEN DUURZAME WERELD VRAAGT OM SLIM DIGITAAL BOUWEN, SAMENWERKEN EN INSTALLEREN.

"De UOB is een goed voorbeeld van weer een stap vooruit in ketensamenwerking."
Roy Leenders, ABB

"De UOB geeft de digitalisering in onze sector een enorme boost."
Ineke Dezentjé, FME

"Van eiland-automatisering naar ketenbreed samenwerken op basis van open standaarden."
Doe nu ook mee!

"Eerdere informatiewisseling levert een productiviteitsprong op en stimuleert innovatie."
Bart Hoeijenbosch, Zehnder

"Wij zijn een groot voorstander van het gebruik van de ETIM en ETIM-MC standaard"
René van Blarcum, Flanco Group

"Bouwen en installeren op basis van data is een voorwaarde voor een sterke en innovatieve sector."
Lieve DeClerq, Spie Nederland

Boudie Bergstra, voorzitter Techniek Nederland

INFOMATERIAL

tschland simplifies processes in
electrical sector powered by CADENAS
TIM standards for planners & architects



Gemeinsame Erfolge 2021

Erfolgreiche Projekte von CADENAS in Zusammenarbeit mit Kunden & Partnern im Jahr 2021

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BIM&CO ad systems and

ETIM BIM portal simplifies the digital building design

powered by  BIMcatalogs.net

NEWSLETTER

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[Newsletter abonnieren =>](#)

Managing ETIM MC as a standard

- *A great opportunity for local ETIM organisations*

But...

- *Doubles the amount of work for ETIM International.*
- *Designing classes requires specialized knowledge.*
- *How can we organize and fund this operation in the long run?*