



**Smart buildings and
digitalization
in light of the revised EPBD**

Thursday, 14 March 2019, 14.00-17.00



VINCENT HENAULT

PRODBIM - EUROVENT SERVICES COMPANY

BIM STANDARDISATION AND DIGITALISATION OF HVAC PRODUCTS

Presentation content

1. Digitalization - BIM : basics
2. BIM standardization overview
3. A Top 3 standards to follow in 2019
4. PRODBIM vision, beyond standardization

1. Digitalization - BIM : basics

BIM definition (*from ISO 19650-1:2018*)

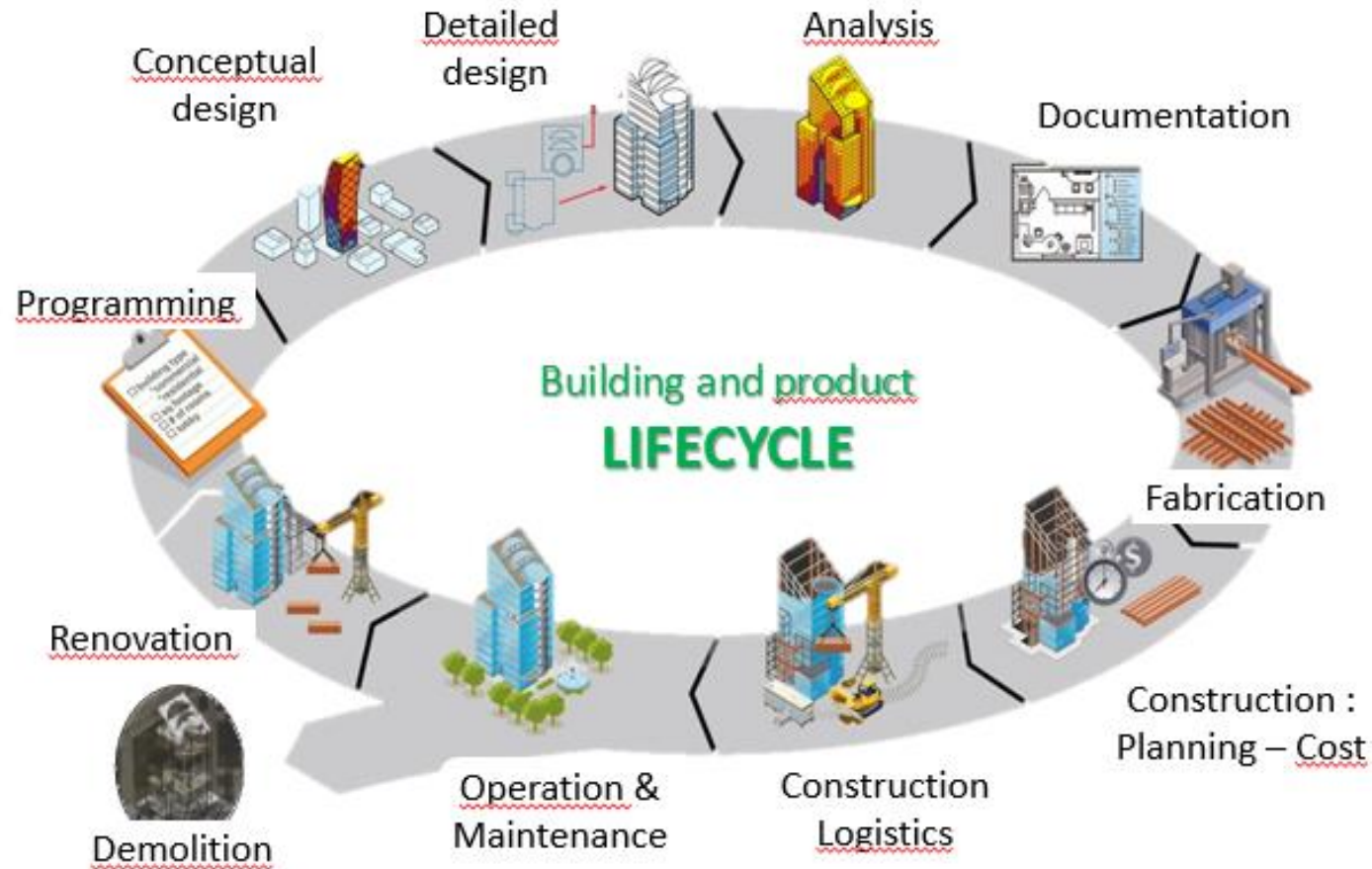
“Building information modelling (BIM)

Use of a shared digital representation of an asset to facilitate design, construction and operation processes to form a reliable basis for decisions.“

1. Digitalization - BIM : basics

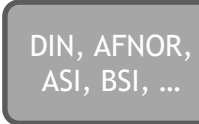
Building Information Modeling

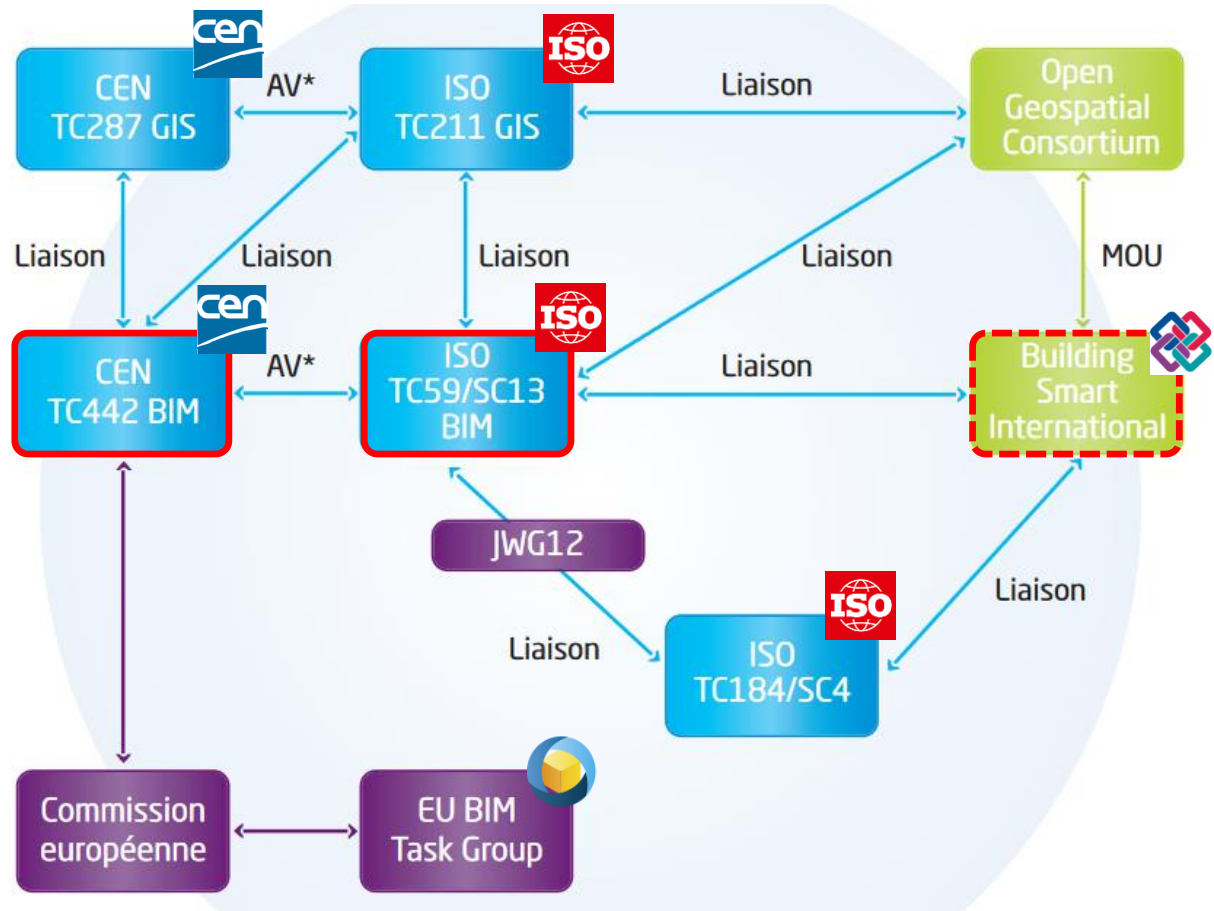
Model
Modeling
Management



2 . BIM standardization overview


 Scope of this presentation

 +
DIN, AFNOR, ASI, BSI, ...
National mirror committees



Source : Roadmap French PTNB, Souheil Soubra

2 . BIM standardization overview

- ISO TC59 SC13 

9 Working groups

12 published standards

8 standards in progress

- CEN TC442 

7 Working groups

6 published standards

16 standards in progress

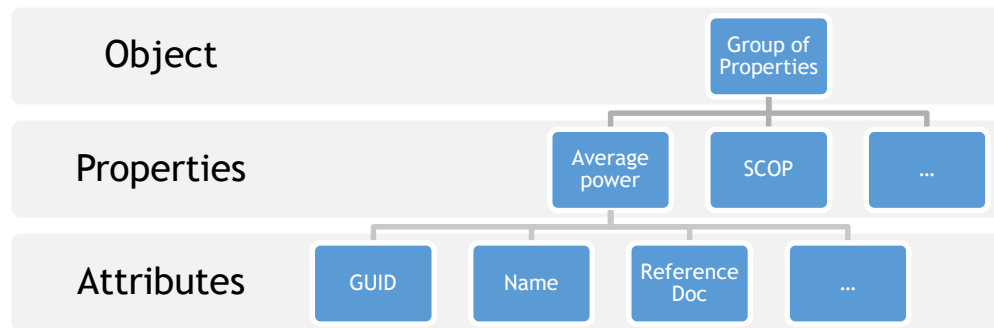
ISO TC194 / SC4 standards (Industrial data) :
15 WG - 765 published - 25 under development

3. A Top 3 standards to follow in 2019

- prEN ISO 23386 | Data dictionary

WORKING GROUP	CEN TC442 WG4 (Task Group 1)
STATUS	Under enquiry (ISO stage 40.20)
PURPOSE	<ul style="list-style-type: none">• Process to create and maintain properties definition• Structure to interconnect data dictionaries

Main concepts in a data dictionary



3. A Top 3 standards to follow in 2019

- prEN ISO 23387 | Product Data Template

WORKING GROUP	CEN TC442 WG4 (Task Group 2)
STATUS	Under enquiry (ISO stage 40.00)
PURPOSE	<ul style="list-style-type: none">• Harmonize product information structure for users• Simplify mapping to other data structure• Integrate regulatory requirements

3. A Top 3 standards to follow in 2019

- ISO 16757 series | Product Data Catalogue

WORKING GROUP	ISO TC59 SC13 WG11 (from VDI 3805)
STATUS	Part 1 and 2, published (ISO) / under approval (CEN)
PURPOSE	<ul style="list-style-type: none">• Product catalogue structure to be machine readable• Structure for dynamic behavior (part 3)• Information requirement by product (above part 5)

4. PRODBIM vision, beyond standardization

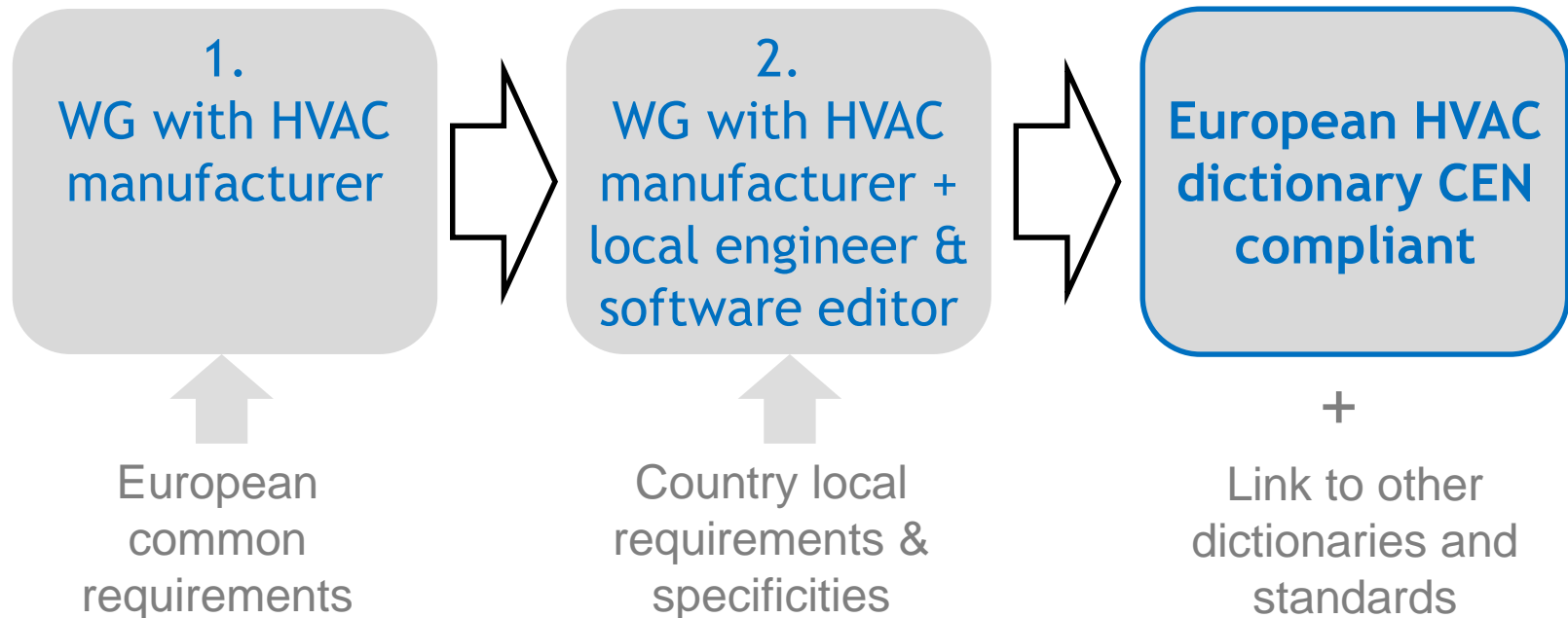
2 axes, aligned with standards development

1. Terminology harmonization
2. Reference databases by trades

4. PRODBIM vision, beyond standardization

1. Terminology harmonization

↪ PRODBIM launches committees by product type



4. PRODBIM vision, beyond standardization

2. Reference databases by trades

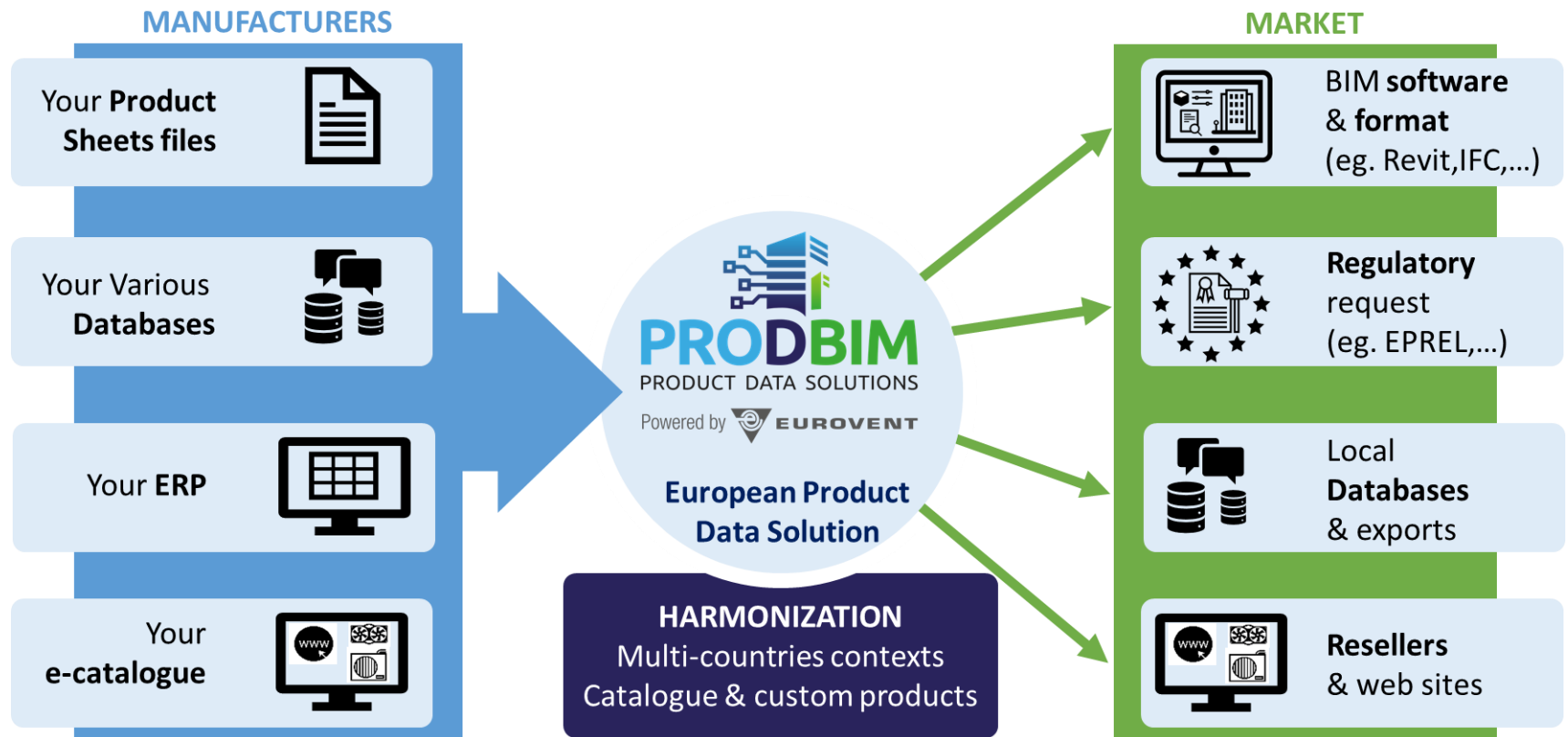
↪ **PRODBIM is European and dedicated to HVAC**

Benefits :

- ✓ Be able to maintain a data dictionary with experts
- ✓ Better data quality, technical rules checking
- ✓ Better integration in HVAC process and tools

4. PRODBIM vision, beyond standardization

PRODBIM - HVAC PRODUCT DATA SOLUTION



Thank you!



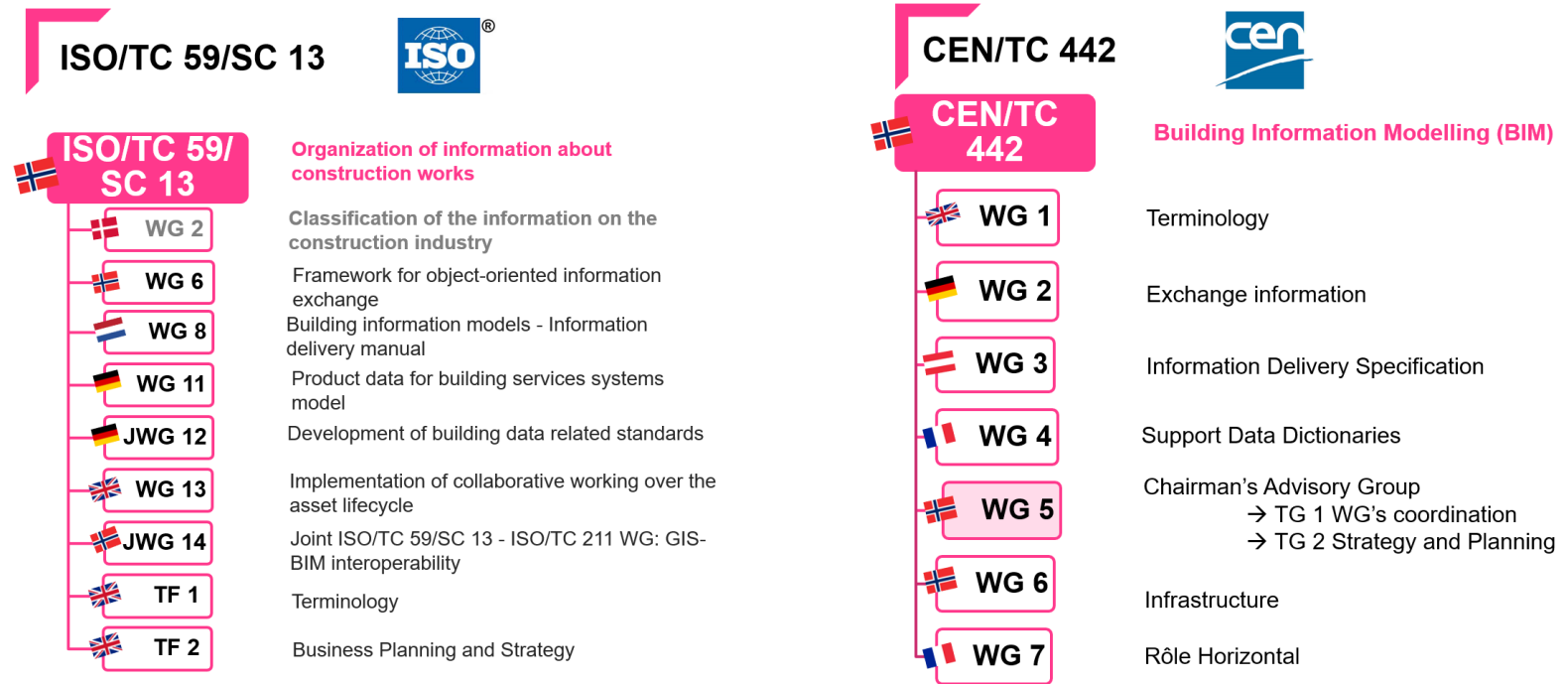
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Annexes

Overview committees for standardization



Source : AFNOR PPBIM