



# General Assembly

22 April, Brussels





Frank Hovorka

REHVA Treasurer

# COPILOT AND PRODBIM INITIATIVES



## COPILOT PRESENTATION

Contact person: Cormac RYAN

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# Design/Install/ Operate HVAC properly

Establish  
objectives



Apply COPILOT protocols



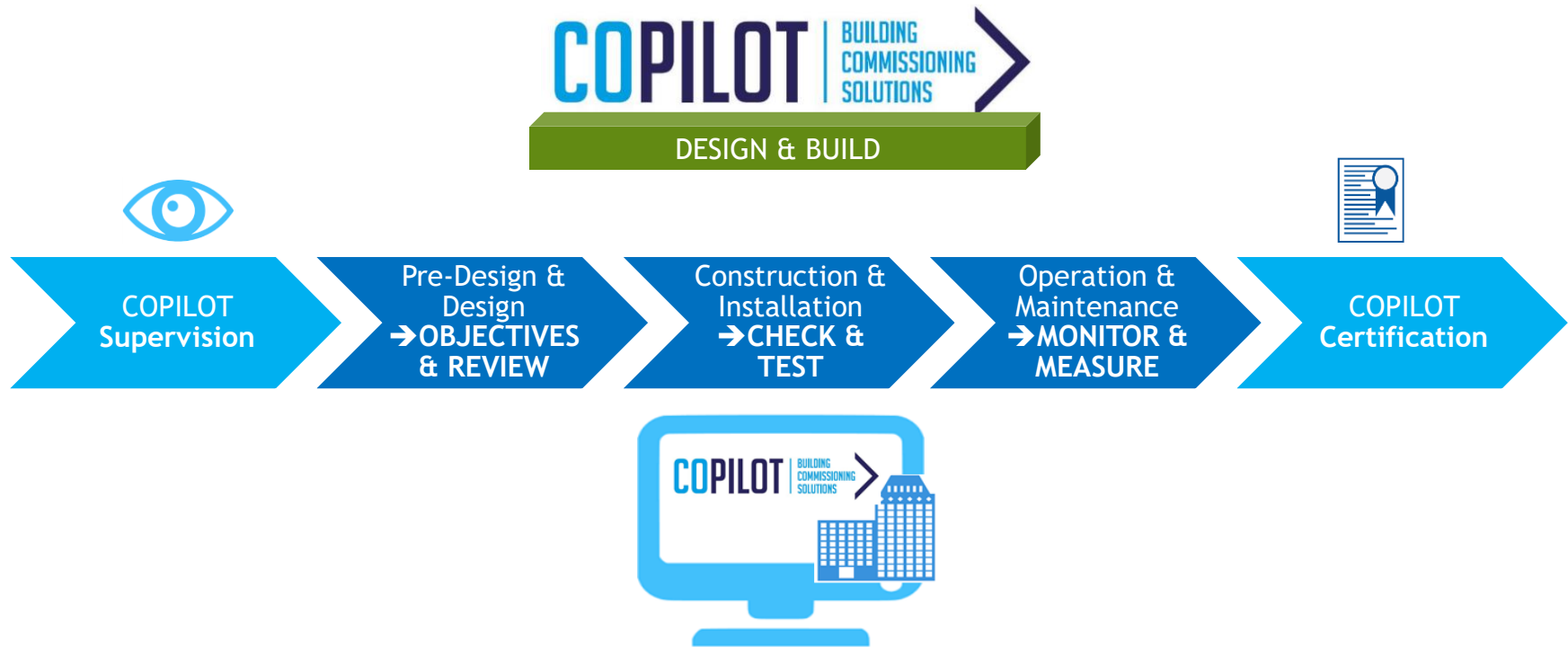
Verify  
results



## → Commissioning

A **quality-focused process** for enhancing the delivery of a project. The process focuses upon **verifying and documenting** that all of the commissioned systems and assemblies are planned, designed, installed, tested, operated, and maintained to meet the **Owner's Project Requirements**.

# Supervise & Certify with COPILOT



# Solve problems, Add value

ADD VALUE	COPILOT → Commissioning Engineer	COPILOT + Cx Engineer → Owner
Manage processes	Ready to use contract/control/test templates.	Coordination of multiple trades and building phases.
Sell quality	Protocols to verify design/install/operate quality.	Building conforms to international best practice & your objectives.
Maximise efficiency	Standardised but flexible digital processes & tools.	Easy & accessible data organisation & storage.
Leverage COPILOT independence	Reinforced role & authority of Commissioning Engineer.	Project verification & certification.
Accelerate ROI (Return on Investment)	Certify your services  <i>*Cost over-run assumptions: McKinsey estimates cost over-runs at 80% of large project costs. COPILOT has taken a conservative estimate of saving cost over-runs of 20% on a HVAC budget of 200€/m2. Plus rent premium, energy savings...</i>	Immediate payback*

# REHVA Cooperation in COPILOT


## REHVA in-kind investment → to 25% shareholding of COPILOT

- REHVA Experts from Turkey, Portugal, Italy, Latvia, France, Hungary, Spain, Denmark
- Work Groups: Aeraulic, Hydraulic, BMS, Contracts, Comfort Alert

## Progress

- Phase 1 = drawing up protocols: almost completed
- Phase 2 = onsite testing of protocols: H2 2018
- Phase 3 = Localisation & Training by **National Federations**

# National Federations localize COPILOT's offer

	Component	National Federation	MoU available
1	Setup of the <i>master</i> COPILOT protocol and methodology - “Globish” <b>international</b> version by expert work groups	-	
2	<b>Localization</b> of a <i>slave</i> national protocol i) national building codes & rules ii) local language	Yes	
3	Training of at least 1 trainer per country, as well as the setup of localized <b>training</b> courses (income generation opportunity)	Yes	
4	Management and registration of COPILOT accredited <b>engineer</b> , registration of the <b>project</b> and delivery of certification once completed	Yes	Commissioning Engineer
and	<ul style="list-style-type: none"> <li>➔ Promotes COPILOT solutions</li> <li>➔ Provides auditor for certification reviews (fees paid by COPILOT)</li> <li>➔ Sets up an annual commissioning conference to maintain commissioner expertise. (income generation opportunity)</li> </ul>	Yes	-





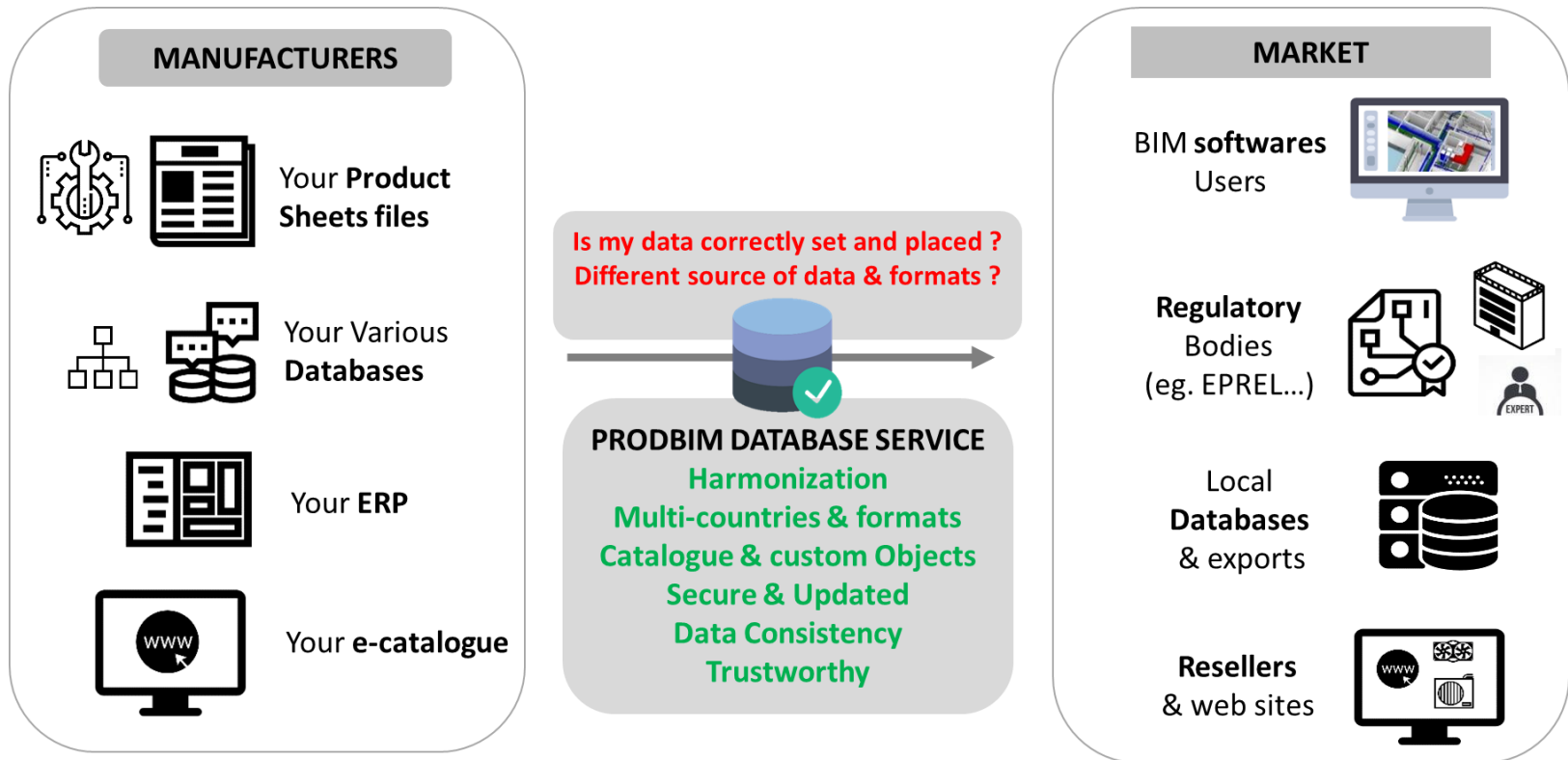
## PRODBIM PRESENTATION

Contact person: Thibaud DE LOYNES

*PRODBIM is an initiative driven by Eurovent Services Company. It will deliver a dedicated database online service to assist the set-up of the HVAC manufacturer Product data into a coherent Product Information Management (PIM), fully usable for BIM environment and user*

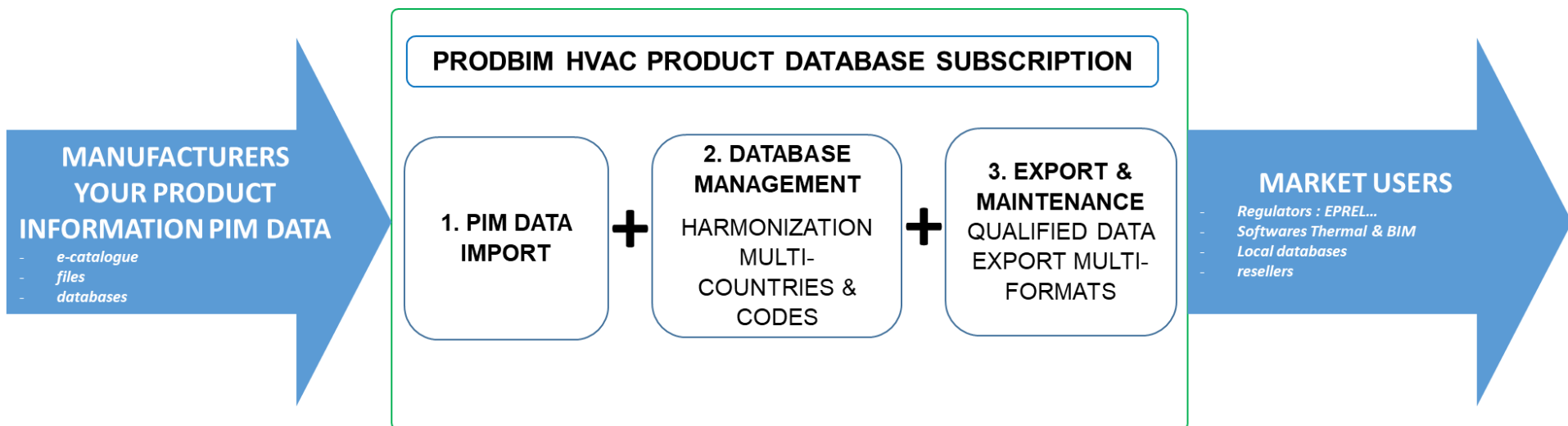
# PRODBIM PRESENTATION

## ISSUE BETWEEN PIM AND BIM








# PRODBIM PRESENTATION

## PRODBIM SERVICES



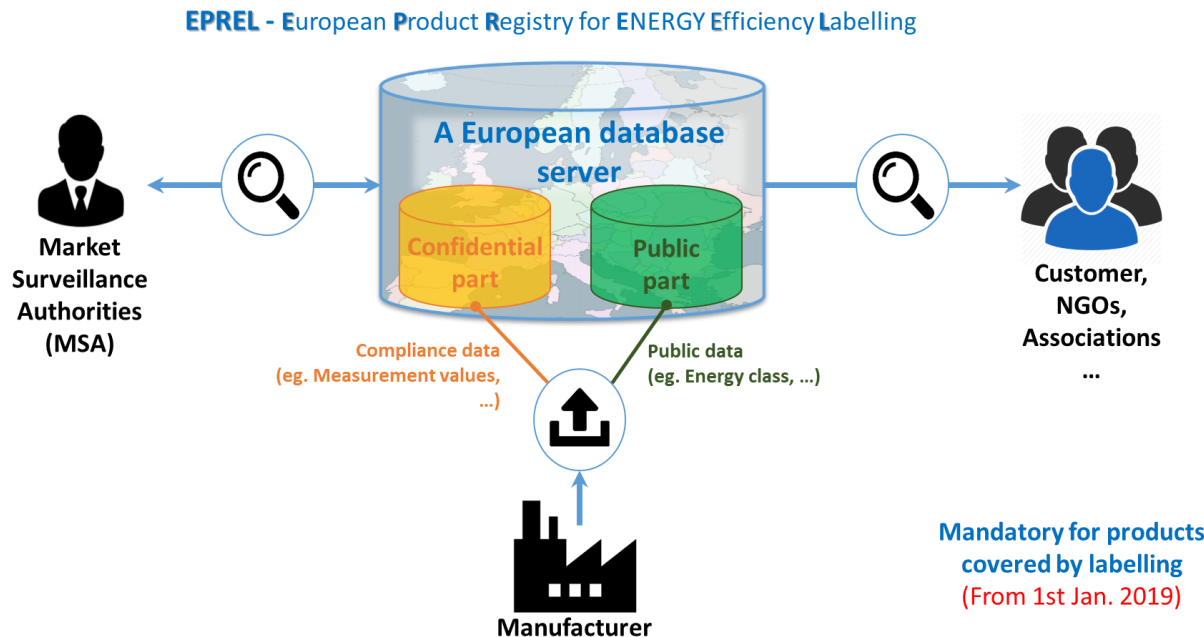
# PRODBIM PRESENTATION

## PRODBIM OFFER

SERVICES SUPPLY	WHAT WE DO & HOW IT WORKS	WHAT YOU GET
<b>1</b> <b>IMPORT &amp; INTEGRATION</b>	Upload your product information with your different information system	 ✓ <b>Get your Data coherent in ONE file</b>
<b>2</b> <b>DATABASE MANAGEMENT</b>	Store and structure your data according to multi-countries codes and BIM/IFC harmonized product properties	 ✓ <b>Get qualified data</b>  ✓ <b>Get data compliant with multicode and regulations</b>
<b>3</b> <b>EXPORT &amp; MAINTENANCE</b>	Secured export and multi-formatting for your users clients and regulations needs.	 ✓ <b>Get multi-format export for your product data (eg. IFC, Revit, ...)</b>  ✓ <b>Get export for your regulation needs (eg. EPREL,...)</b>

# PRODBIM PRESENTATION

## SERVICE OFFER ON NEW ECOLABELLING REGULATION



This service will be first delivered for :

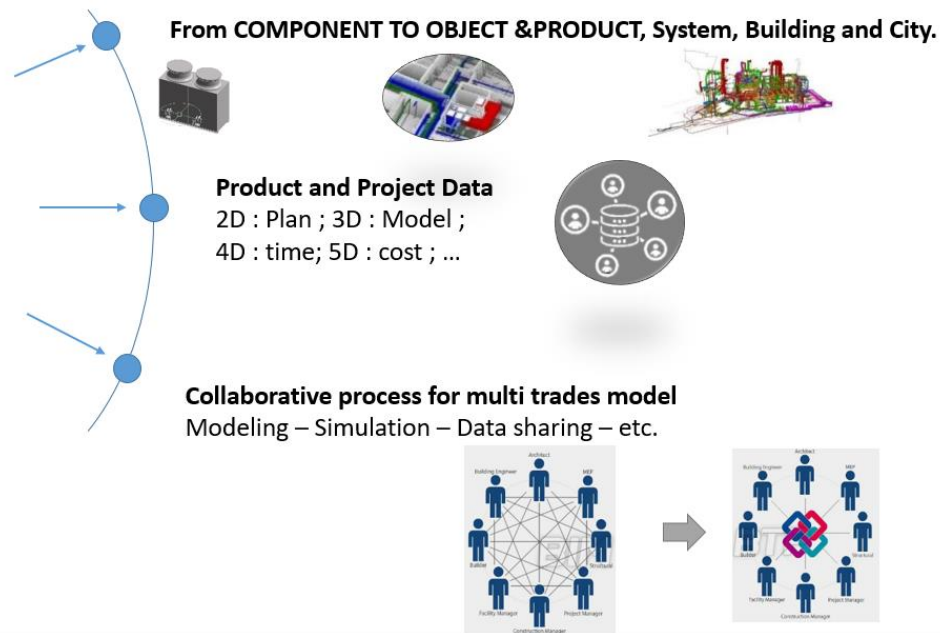
- Residential ventilation unit
- Air conditioner
- Local space heater
- Space heater
- Water heater

# PRODBIM PRESENTATION

## WHAT IS BIM ?

**Building  
Information  
Modeling**

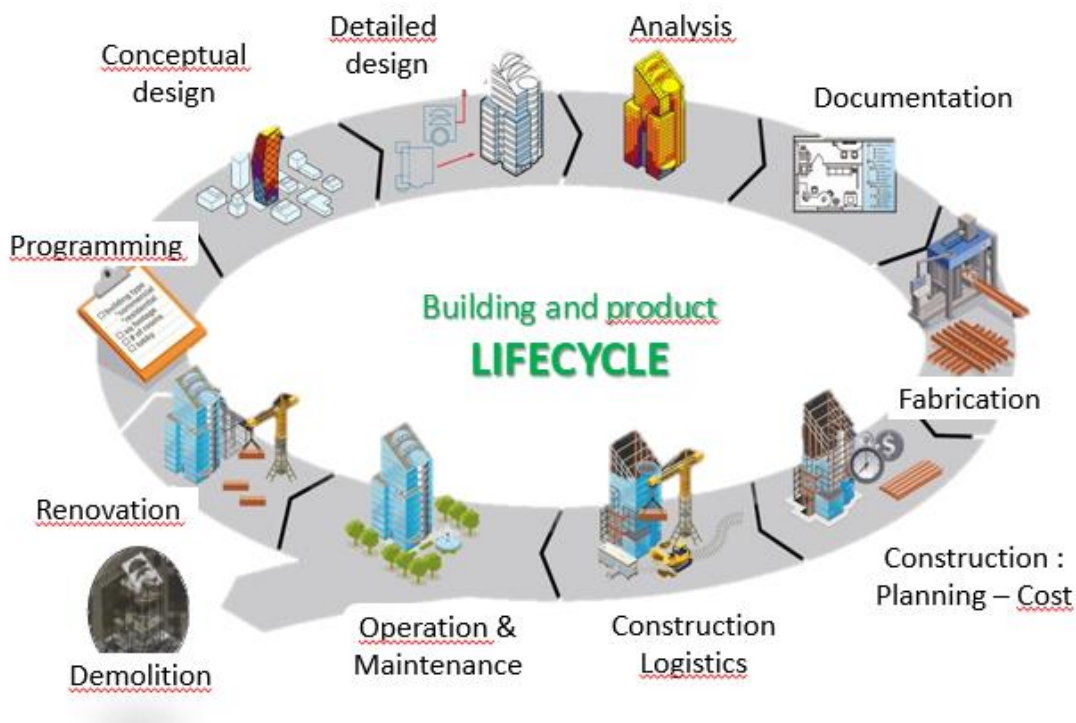
Model  
Modeling  
Management



**Building  
Information  
Modeling  
Management**

# PRODBIM PRESENTATION

## BIM SCOPE





# PRODBIM PRESENTATION

## EUROPEAN BIM STANDARD

### National strategies



### European initiatives & perspectives

- **buildingSMART** : International association for OpenBIM
- **CEN TC442** : Building Information Modeling (standardization)
- **New requests** :
  - **EPREL** (European Product Registry for Energy Efficiency Labelling),
  - **SMART CE marking**
  - **CPE Energy Performance...**

Multi- countries evolution

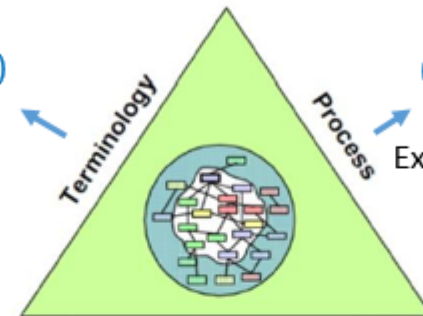
### Building Information Modeling ISO standard

**IFD**  
(ISO12006-3)

Library  
& Terms  
mapping

**IDM**  
(ISO29481)

Information  
Exchange process



**buildingSMART**  
International Alliance for Interoperability

Digital Storage

**IFC**  
(ISO16739)  
Standard file  
format for building

OpenBIM standards

IFC :  
Industry  
Foundation Class  
IFD :  
International  
Framework for  
Dictionaries  
IDM :  
Information  
Delivery Manual



# PRODBIM PRESENTATION

## PRODUCT DATABASE COMMITTEES

Invitation to manufacturers for HVAC product committees to harmonize properties by product families for catalogues and custom products : LCP, HP, AHU, FCU...

Harmonized European DICTIONARY

By local codes and countries

By BIM standard : NEW product properties organization  
standard ISO 23 386

# PRODBIM PRESENTATION

**Thank you and looking forward to cooperating together :**

- Communication**
- Tenders**
- Conferences / speakers**
- BIM expertise, training & working groups...**