

# ARGE

## Environmental Product Declarations

*ARGE conference – 4<sup>th</sup> september 2014*

***CETIM – Industrial and Sustainable Performance***

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# Presentation content

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- **Introduction** *by Joachim KIEKER*
- **Project presentation**
- **Project status**
- **Future steps**
- **Questions & Answers**

# Project presentation

- Review of project objectives
- Scheduling
- Main tasks

# Context

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- Request of clients with various types of demands :
  - To aggregate data to measure global performance of a building
  - To better understand environmental performance of the products
- Several initiatives at national and European levels :
  - Willingness of European commission to harmonize the way to evaluate and communicate product environmental footprint
  - Link with CEN/TC350 mission : *To develop common rules for the assessment of the sustainability performance of **buildings and civil engineering works** enabling the use of consistent data in the assessments in order to have comparable results*



**Willingness of being proactive  
to avoid the definition of future high-impact rules  
for hardware manufacturers**

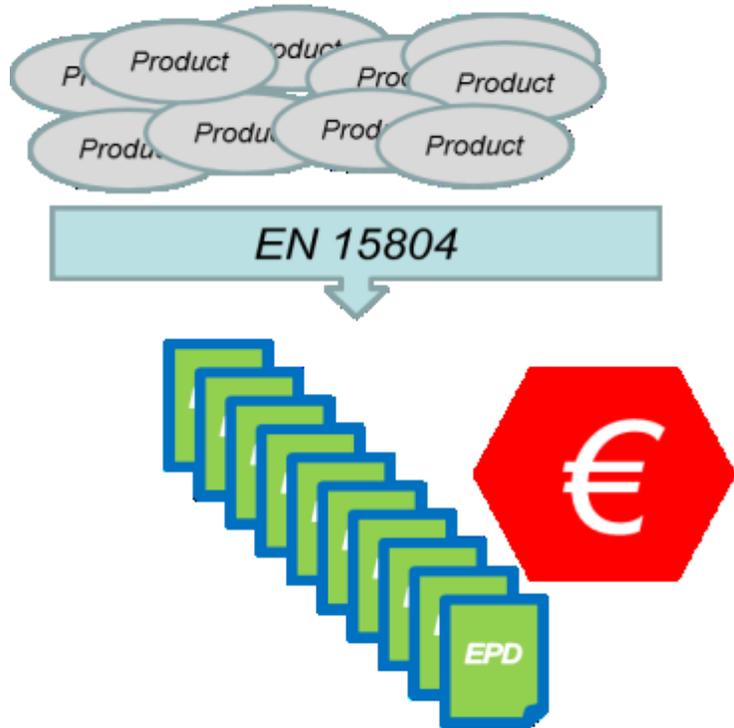
# Main objectives

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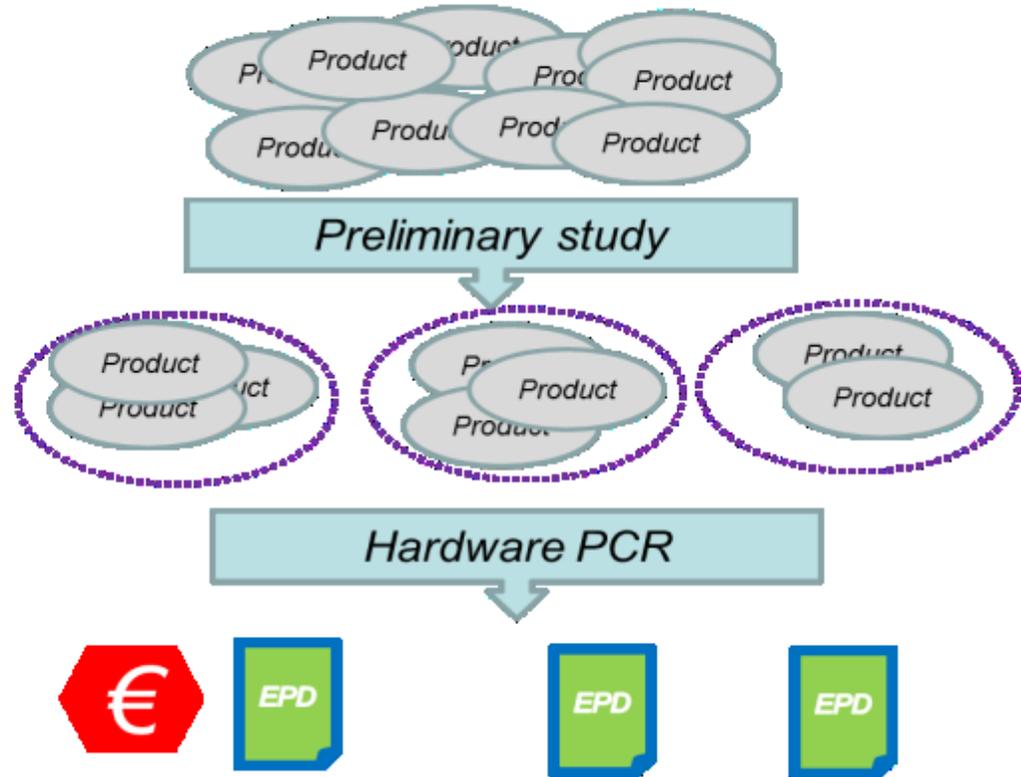
- To produce EPDs by choosing a strategy with the following objectives :
  - Being pro-active to keep the control of requirements that can generate constraints on companies of hardware sector
  - Minimizing the cost related to the EPDs production
  - Reducing the impact on the competitiveness of companies
  - Meeting the requirements related to environmental evaluation and communication (regulations, standards, already existing databases, and EPD programs)
  - Having an harmonized and pragmatic way of producing EPDs across Europe for fair trade and cost reduction

# Project philosophy

## Conventional approach



## CETIM approach



The preliminary study aims to define rules that will simplify the way to produce common EPD (number of EPDs, calculation methods, ...) by acting on :

- Products grouping in a very pragmatic way (1 EPD for a group of « similar » products)
- Collaboration at trade associations level (1 EPD for a group of companies)

# Project structure

## Project steps

Step 1 - PCR writing

Step 2 - PCR recognition

Step 3 - EPD production

## Conventional approach

*Usually programme and PCR development (in an open collaboration) at step 1*



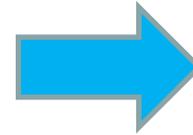
*Drawback : Long process with sometimes no real involvement of the most interested party (companies)*

# Project scheduling

General process with options schedule	2014												2015						
	March	April	May	June	July	August	September	October	November	December	January	February	March	April	May	June	July	August	September
<b>Project management</b>																			
ARGE conference							C1												
<b>Step 1 : Definition of study boundaries</b>																			
Project launch																			
- Kick-off meeting		M1																	
Feasibility studies of generic EPD																			
- Market share data collection by ARGE																			
- Task force for the choice of volunteer manufacturers and preparation of data collection				WC1															
- Data collection by companies with CETIM tools and support																			
- CETIM study																			
- Decision meeting on product categories											M2								
<b>Step 2 : PCR writing</b>																			
Integration of national and European specific requirements																			
Writing European Hardware PCR																			
Exchange with program holders										M3*	M4*								
Validation of PCR												M5							
<b>Step 3: Generic EPD production</b>																			
Data collection											M5		M6						
LCA calculation. Reports, & EPD																			
Review																			
Restitution meeting																			M7

# Product categories

- Locks
- Locking cylinders
- Panic exit devices
- Door and window handles
- Hinges
- Window fittings
- Door closers
- Sliding door gear
- Door coordinators
- Padlocks
- Glass-door gear / hardware devices
- Letter boxes
- Shutter hardware devices
- Electro-mechanical locks
- Push button devices



*Preliminary study  
(Feasibility study)*



*Product grouping  
to reduce the number of EPDs*

*Note: In red, the additional product categories / initial ARGE-CETIM contract*

# Project status

- Data collection for Market share
- PCR writing & identification of national initiatives

# Market share of the product families

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## Objectives

- Define the study boundaries
- Identify which products are representative of your production across Europe (justification fo decisions and assumptions made in the framework of your project)
- Determine with which companies it is important to collaborate for representativeness (data collection for feasibility study and EPD production)

## Current progress

- 5 questionnaires received from DE, UK, NL, FI, FR
- Analysis made by CETIM / First

## First results

- General synthetisis gathering a list of volunteer companies ready to collaborate, representative products to take into account in the feasibility study

## To come

- Questionnaires from SE, CH and AT
- Validation of study boundaries by making some assumptions

# PCR writing

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## Objectives

- Have a European harmonized PCR for homogeneous approach across Europe on EPD

## Current progress

- Analysis of IBU, UNIQ and EPD system PCRs

## First results

- Draft PCR mixing the mentioned PCR

## To come

- Finalisation of national initiatives on PCR production
- Exchange with IBU for the recognition of the PCR
- Validation of PCR

# Future steps

- Program operator meetings
- Feasibility study for product grouping
- Preparation of EPD production

# Feasibility study (Preliminary study)

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## Objectives

- Product grouping in order to reduce the number of EPDs to produce
- Gather information needed to justify simplifications and knowledge necessary for ARGE to interact with authorities

## Next steps

- On the basis of the market share analysis, identification of companies and products on each this study has to be performed
- Data collection with volunteer companies on the chosen products
- Simplified LCA on the 15 product categories
- Decision-making table for the product grouping that will allow ARGE to choose the appropriate solution taking into account :
  - Members point of view (feasibility aspect)
  - Market demands (marketing aspect)
  - Available budget

# Collaboration with program operator

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## Objectives

- Recognition of the European Hardware PCR
- Integration of the program operator reviewer at the very beginning of EPDs production
- Publication of ARGE EPD according to ISO14025 / EN15804 (Type III environmental communication)

## Next steps

- Meeting with IBU planned in late September
- Modification of PCR

# Questions & Answers