ARGE
Environmental Product Declarations

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CETIM – Industrial and Sustainable Performance
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Presentation content

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

- Review of project objectives
- Scheduling
- Main tasks
Context

- 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

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 competiveness 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**

EN 15804

**CETIM approach**

Preliminary study

Hardware PCR

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

<table>
<thead>
<tr>
<th>General process with options schedule</th>
<th>2014</th>
<th>2015</th>
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<tr>
<td>Project management</td>
<td>2014</td>
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<td>ARGEx conference</td>
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**Step 1: Definition of study boundaries**
- Kick-off meeting
- Feasibility studies of generic EPD
  - Market share date collection by ARGEx
  - Task force for the choice of volunteer manufacturers and preparation of data collection
  - Data collection by companies with CETIM tools and support
  - CETIM study
  - Decision meeting on product categories

**Step 2: PCR writing**
- Integration of national and European specific requirements
- Writing European Hardware PCR
- Exchange with program holders
- Validation of PCR

**Step 3: Generic EPD production**
- Data collection
- LCA calculation. Reports, & EPD
- Review
- Restitution meeting
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

Objectives
- Define the study boundaries
- Identify which products are representative of your production across Europe (justification for 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 synthesis 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
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)

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

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