

Aubin Roy¹, Sylvie Gros Lambert²
Vanessa Pasquet¹, Angélique Léonard²

1 Plateforme [avniR] by cd2e, France
2 ULiège, Belgium



<http://www.interreg-valdem.eu>

More info

www.interreg-fwvl.eu

@InterregFWVL

VALDEM

VALDEM Project:

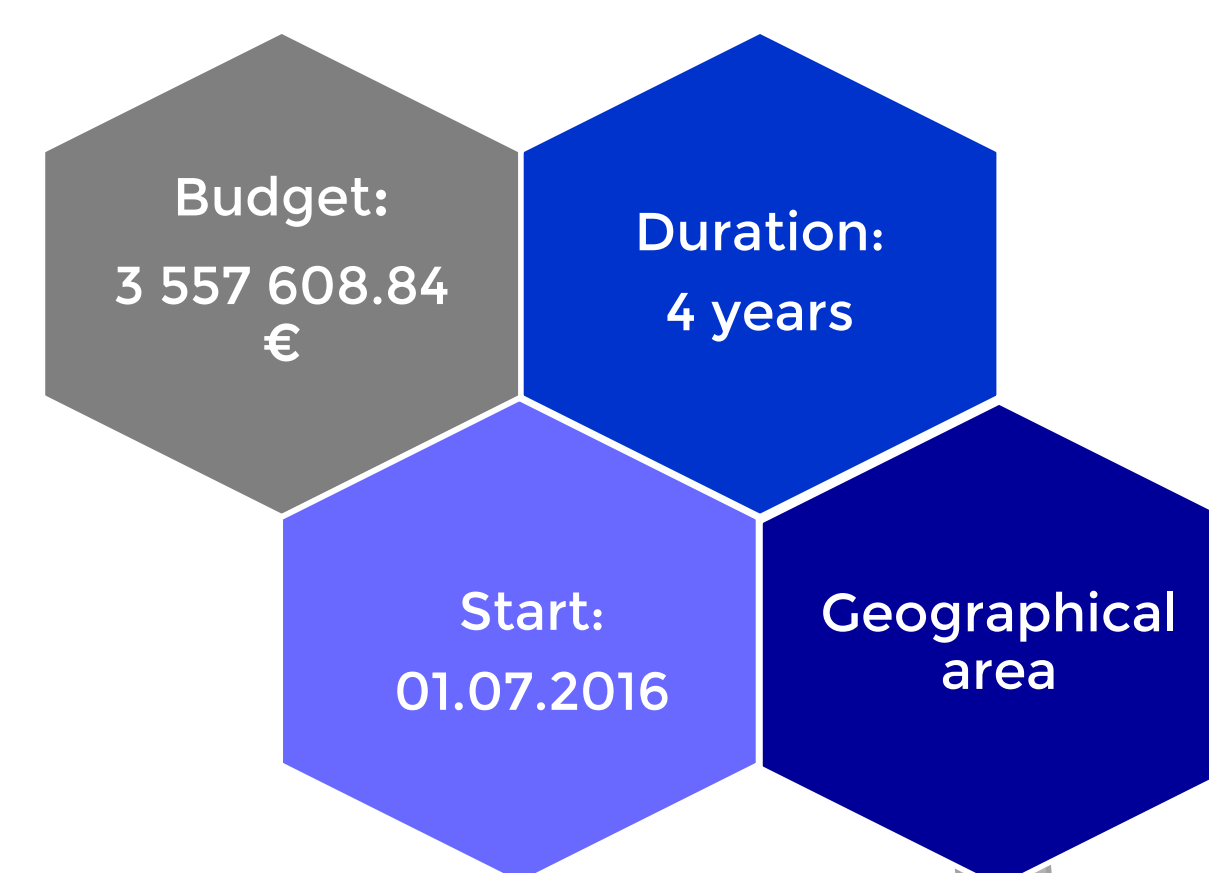
Objectives:

VALDEM aims to improve demolition waste treatment to reach a circular economy in North of France and Wallonia (BE):

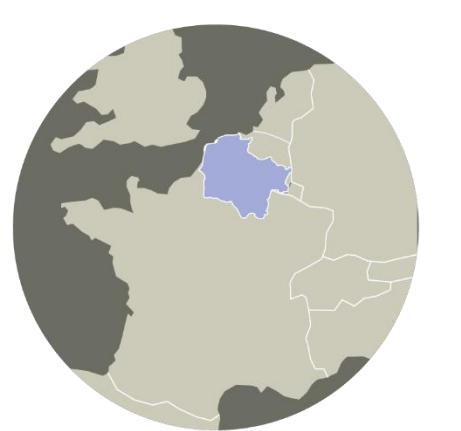
- ✓ Identify waste flow and create new recycling sector.
- ✓ Validate the approach by using Life Cycle Assessment.
- ✓ Demonstrate the transferability of the results to industries.
- ✓ Conduct a monitoring of regulations and highlight opportunities.



General information:



62,000 km²
10,800,000 habitants/inwoners



What about Life Cycle Management?

Activities:



Scope:

Types of buildings (upstream)	Demolishing/dismantling practices	Sorting facilities practices	Downstream		
			Flow	Issue	
Residential buildings	Dismantling then demolishing	Sorted waste, depending on sources (>80%)	Mixing	Concrete + brick	Mixing
	Demolishing quality +			Concrete + plaster	Plaster
Commercial and industrial buildings	Dismantling then demolishing	Mixed waste, depending on sources (>80%)	Mixing	Concrete fines + brick	Fines + mixing
	Demolishing quality -			Concrete fines + brick + soil	Fines + mixing + soil
Civil Engineering/Demolishing		Mixed waste, depending on sources (>80%)	Mixing	Concrete fines + brick + soil	Fines + mixing + soil
Road/Demolishing			

Scope of the project: [arrow pointing right]

Required traceability: [arrow pointing left]

Upstream

Downstream

Assess environmental burdens link to collection, sorting and treatment of construction and demolition waste

Assess environmental burdens link to product manufacture from CDW

Challenges

Lack of consistent, specific, detailed and reliable data

Lack of a consensual methodology for allocation in recycling

Approach

Data collection at different scale (micro with sorting facilities, recyclers ... and macro: regional and national statistics ...)

State of the art of current research regarding allocation in recycling (PEF ...)

Connecting with related initiatives and projects (Recybeton, Studies from SNED, FEDEREC, KU Leuven ...).

Bring scientific and concrete elements (based on data from the ground and at macro-level) on how recycling of CDW can improve environmental impact of buildings along their life (current and futur) and move forward to a circular economy in construction sector