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:
- **Budget**: 3,557,608.84 €
- **Duration**: 4 years
- **Start**: 01.07.2016
- **Geographical area**: Map showing regions of North of France and Wallonia

What about Life Cycle Management?

Activities:
- Dismantling/demolishing
- Transport of waste
- Sorting process
- Recycling process
- Recycled material

Scope:
- **Types of buildings** (upstream)
  - Residential buildings
  - Commercial and industrial buildings
- **Demolishing/demolishing practices**
- **Sorting facilities practices**
- **Downstream**
  - Recycling/aggregate
  - Construction products

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

Downstream
- 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 …)

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 future) and move forward to a circular economy in construction sector.

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