Introducing the H2020 project

‘Reusing precast concrete for a circular economy’

What and why is ReCreate?
Concrete is the most used construction material globally. It is also a highly carbon-intensive material and dominates construction and demolition waste in the EU and beyond.

ReCreate is a new Horizon 2020 project, which is premised on the idea that concrete structures that the humanity has already produced make up significant deposits for salvageable concrete components.

Project time: April 2021 to March 2025.

What are its purpose and aims?
The main objective for ReCreate is to close the loop for concrete at the highest level of utilization by facilitating the deconstruction and reuse of precast structural concrete components from condemned buildings that have not been designed for deconstruction.

The project will study not only the technical challenges of deconstruction and reuse but also the implications in terms of value chains, business models and work practices.

What is more, ReCreate aims to quantify the potential environmental benefits of concrete reuse in terms of avoided carbon emissions and virgin material extraction, and to establish a knowledge base on precast concrete systems across Europe that facilitates technology transfer between contexts.

Who are the ReCreators?

Coordinator: Tampere University (FI)
Country Cluster and Work Package Leaders:
- Royal Institute of Technology (SE)
- Eindhoven University of Technology (NL)
- Brandenburg University of Technology (DE)

Communications Leader: Croatia Green Building Council
Finnish Cluster Members:
- Skanska, Umacon, Ramboll Finland, Liike Arkkitehtistudio, City of Tampere
- Consolis Parma

Swedish Cluster Members:
- Helsingborgshem, Consolis Strängbetong

Dutch Cluster Members:
- IMd Raadgevende Ingenieurs Consolis VBI

German Cluster Members:
- Ecosoll Ost, P. Jähne Ingenieurbüro, Architekt Jochen Dreetz

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