

## Introducing the H2020 project



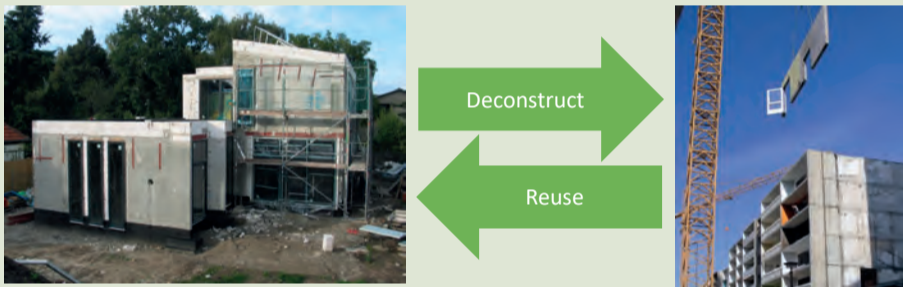
# 'Reusing precast concrete for a circular economy'

### 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**.

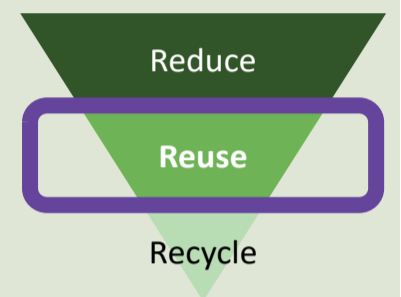
Project time: April 2021 to March 2025.



Photos courtesy of Mr. Claus Asam

### 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.

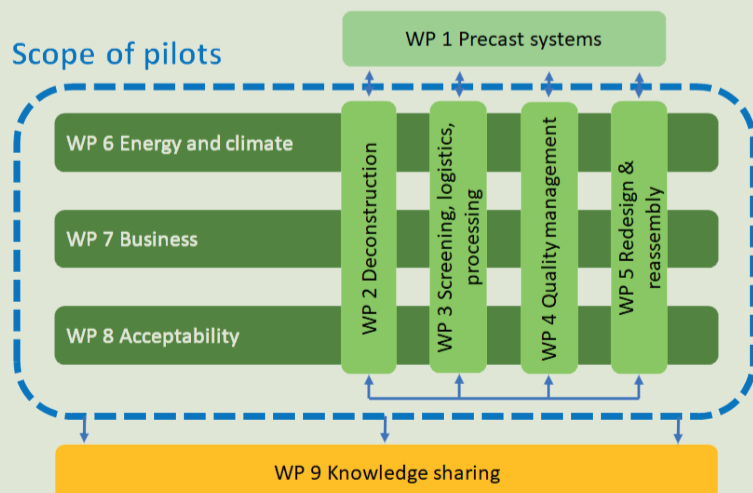


The project will study not only the **technical challenges** of deconstruction and reuse but also the implications in terms of **value chains, business models and work practices**.

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.

### How is ReCreate implemented?

The core of the project is formed by real-life pilots in Finland, Sweden, the Netherlands and Germany, where deconstruction and reassembly is developed and experimented with in practice. The pilots are construed around Country Clusters consisting of local industry and public sector partners. The work is structured to technology work packages (WPs 2-5) and cross-cutting viewpoints (WPs 6-8):



### Who are the ReCreators?

Coordinator	Tampere University (FI)
Country Cluster and Work Package Leaders	Tampere University (FI) 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	Ecosoil Ost, P. Jähne Ingenieurbüro, Architekt Jochen Dreetz



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