

September 2016 – February 2020

## OBJECTIVES

The overall objective of the **RE<sup>4</sup> project - REuse and REcycling of Construction and Deconstruction Waste (CDW), materials and structures in energy efficient pREfabricated elements for building REfurbishment and construction** - is to **develop a fully prefabricated energy-efficient building** made of components containing up to 65% by weight of CDW-derived materials and structures.

This will involve the development of **several intermediate but self-standing industrial results**, such as an innovative CDW sorting system based on automated robotics equipped with advanced sensors, a number of prefabricated building components (including connections) based on CDW-derived materials and structures, as well as the related production processes and equipment.

## ACTIVITIES

**ACR+ is in particular in charge** of gathering data about CDW management regulatory framework and producing a report on **the use of economic instruments** such as waste taxes, waste collection charges, taxes on raw materials and products, deposit-refund schemes, subsidies, and fiscal incentives to improve the performances of the CDW management systems in Europe. ACR+ is also in charge of **developing project visual identity materials** such as a project leaflet, a presentation template and a roll-up, and implementing **dissemination activities** to spread the project results to local and regional authorities: a brochure, a roll-up poster and a project presentation were created at the beginning of the project and will be updated based on the project development.

## PARTNERS INVOLVED

RE<sup>4</sup>'s project leader is Centro di progettazione, design & tecnologie dei materiali (**CETMA**). The project gathers partners from all over Europe:

- **ACC**, Acciona Infraestructuras sa
- **ACR+**, Association of Cities and Regions for Sustainable Resource Management
- **RISE** Research Institutes of Sweden AB (formerly CBI Betonginstitutet AB)
- **CDE** global limited
- **CREAGH** Concrete Products Limited
- **FENIX TNT SRO**
- **NTUST** National Taiwan University Of Science And Technology
- **QUB** The Queen's University Of Belfast
- **ROS** Roswag Architekten Gesellschaft Von Architekten Mbh
- **STAM SRL**
- **STRESS** Sviluppo tecnologie e ricerca per l'edilizia sismicamente sicura ed ecosostenibile scarl
- **VORTEX HYDRA S.R.L**



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**More information:** [www.re4.eu](http://www.re4.eu)



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