

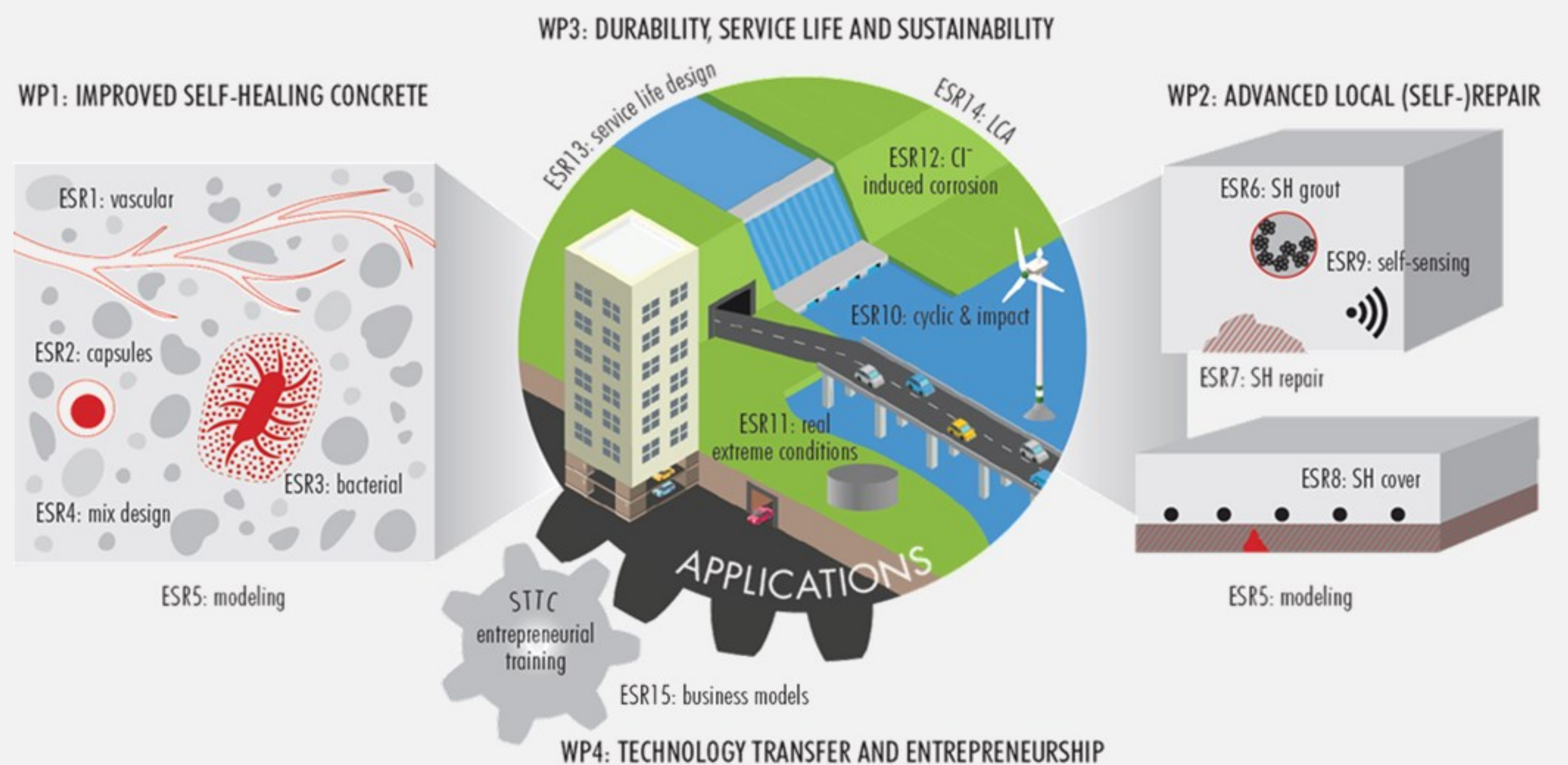
ABOUT SMARTINCS

SMARTINCS will implement new **life-cycle thinking** and **durability-based approaches** to the concept and design of concrete structures, with self-healing concrete, repair mortars and grouts as key enabling technologies.

Goals of the research:

- to develop and model innovative self-healing strategies for bulk and local application;
- to integrate self-healing into innovative service-life based structural design approaches by considering the effects on durability;
- to quantify and prove the eco-efficiency of newly developed smart concrete / mortars by life cycle assessment modeling;
- to transfer the technology to the market.

4 different work packages are working on a *PERSPECTIVE* for the *FUTURE* of the construction sector >>>



15 EARLY STAGE RESEARCHERS IN TOTAL
FOCUSED ON DIFFERENT TOPICS

Yasmina Shields
Optimised Vascular Network

Mustafa Mert Tezer
Self-protected Bacteria for Healing and Corrosion Inhibition

Harry Hermawan
Optimised Mix Design

Vanessa G. Cappellesso
Self-Healing in Realistic Conditions

Davide di Summa
Life Cycle Assessment

Lais Bandeira Barros
Technology-Tailored Commercialization of Self-Healing Methods and System

Shan He
Self-healing Cover Zone

Niranjan Prabhu K.
Cyclic, Impact and Thermal Loads

Claire Riordan
Advanced Capsule Manufacturing Techniques

Sina Sayadi Moghadam
Science-based Modelling of Self-Healing Systems

Priya Arul Kumar
Self-Healing Repair Mortars

Gabriele Milone
Self-sensing for Damage Monitoring using Carbon Nanomaterials

Suelen De Rocha Gomes
Crystalline Self-Healing Technology for Non-shrinkage Cementitious Grouts

Pardis Pourhaji
Mitigating Chloride and Carbonation Induced Corrosion

Kiran Dabral
Integration of Self-Healing Functionalities in Structural and Service-life Design

CONSORTIUM



Europe has the key advantage to host pioneers and specialists in self-healing disciplines who can make the ambitious goals become a reality. They teamed up in the SMARTINCS consortium and include actors in all parts of the value chain, having the capacity to create the needed break-through to introduce the novel innovative self-sensing and multifunctional self-healing strategies and advanced repair technologies into the market.

Project coordinator: Ghent University



Interested to stay informed about the SMARTINCS' achievements and activities:
register for the newsletter at our website www.smartincs.eu