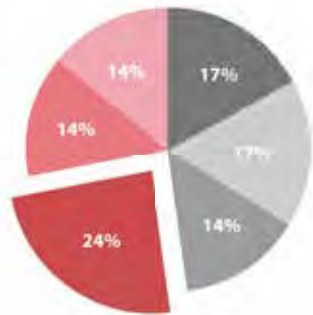


TEAM



29 PARTNERS
11 Countries

AN INTERDISCIPLINARY AND BALANCED WORLD EXPERT PANEL:



- Cultural Heritage stakeholders
- Certification bodies and ICT
- Manufacturers
- Multi-Modellers
- Material Scientists
- Architect-Engineer

THE AMBITIONS

- 1** To develop **advanced materials and techniques** specifically designed for concrete heritage preservation
- 2** To serve as watchdogs of concrete heritage and to open **social-economic activities** around "historic concrete"
- 3** **Effective market uptake** of technical solutions developed in **InnovaConcrete**



PARTICIPANTS



Innovative Materials and Techniques for the Conservation of the 20 th Century **Concrete**-based Cultural Heritage

CLUSTERS



www.innovaconcrete.eu



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THE PROJECT

InnovaConcrete is an innovative project aimed at **preserving concrete-based monuments**, the most significant Cultural Heritage (CH) **in the 20th Century**.

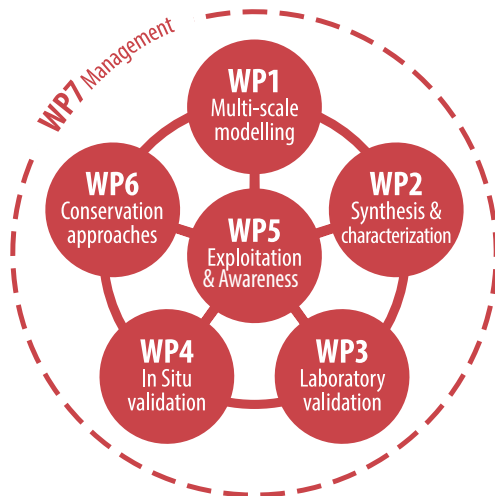
The approach is the **impregnation of new products**, on the surface and cracks of decayed monuments **producing C-S-H gel**, responsible for the engineering properties of cement paste. Moreover, these products can incorporate additional performances: **superhydrophobicity** and **corrosion inhibition**, promoting **multifunctional tailored treatments**.

Alternatively, other materials and techniques: **inorganic nanotubes**, **bioenzyme-assisted self-healing**, and **atmospheric plasma technologies** are investigated.

Theoretical Modelling is combined with **experimental tests** and **in situ validation**, on a selection of significant monuments and buildings.

Technical interventions are joined with activities to promote and achieve **social awareness** and **value creation** linked to historic concrete.

WORK PACKAGES



CASE STUDIES



EXPECTED IMPACTS

TECH



Innovative and affordable products/techniques



Modelling-based decision making tool



Effective market uptake



Tailored concrete restoration & preservation

SOCIAL



Citizens awareness of 20th Century Cultural Heritage



Tool for evaluating socio-economic prospects



Open repository of project outcomes



Environmental friendly solutions

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