

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

THE PROJECT

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

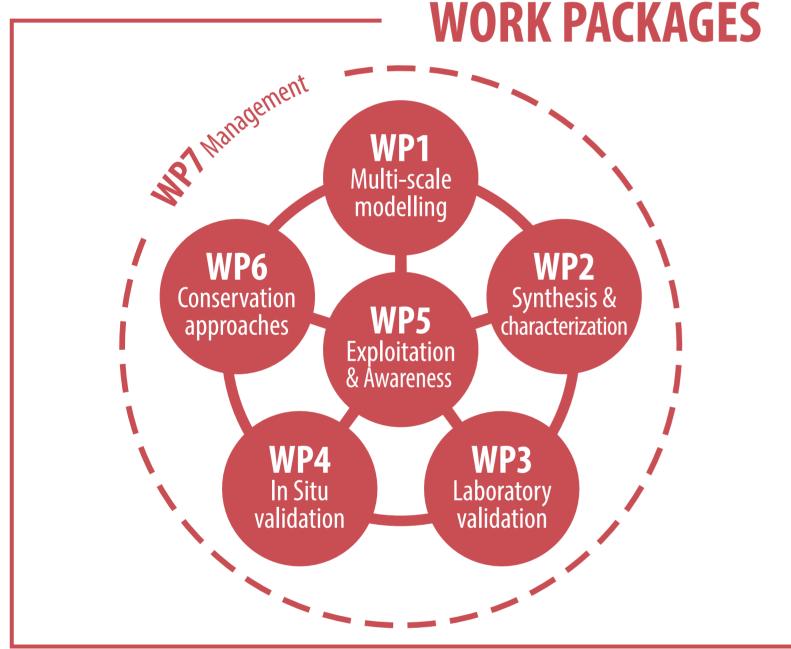
The approach is the **impregnation of new** products, on the surface and cracks of decayed monuments **producing C-S-H gel**, responsible for the engineering properties of cement paste. Moreover, these products can incorporate additional performances: **superhydrophobicity** and **corrosion inhibition**,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







Effective market uptake of technical solutions developed in InnovaConcrete.

