



Contact

info@sincere-project.eu  
  @sincere-project

Partners



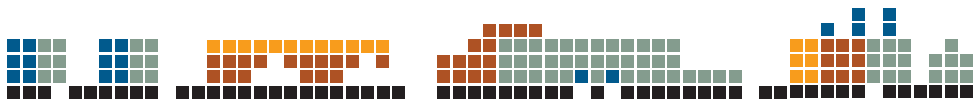
up2metric  
integrated design engineering



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# The second life of modern period architecture

			Building stories
	Low CO <sub>2</sub> Materials	18 Partners	ICT Tools
		Energy Solutions	
			4 Pilots
		Heritage impact	Citizen science
		Technological innovations Public engagement Horizon Europe	



# Technology

*SINCERE optimises the carbon footprint and energy performance of historic buildings, with innovative restoration materials, energy solutions, and ICT tools.*

## Low CO<sub>2</sub> Materials

- Self-healing concrete
- Phase Change Materials
- High Performance Fiber Reinforced Cementitious Composites (HPFRCC)
- Textile-reinforced concrete
- Hempcrete



Pilot 1  
Algete, Spain

## ICT tools

- Knowledge graph
- Heritage Digital Twin (H-DT)
- Extended Reality
- Climate modelling
- Design tools

## Energy Solutions

- Building Integrated Photovoltaics (BIPVs)
- Radiative cooling and green coatings



Pilot 3  
Rhodes, Greece



# Society

*SINCERE raises awareness and empowers Europeans to promote the concept of preservation of cultural heritage buildings through cultural and community engagement activities at national and international level.*

## Building stories

SINCERE gives a voice to the cultural buildings themselves to shift the perspective in a playful and constructive way.

## Citizen Science

Whether as an intelligent crowd or as local experts, citizens are the most important building blocks of the past, and the future of cultural heritage.



Pilot 4  
Ostrava, Czechia



Pilot 2  
Holon, Israel

## Heritage Impact

Renovation and rehabilitation of cultural heritage buildings avoid unnecessary greenhouse gas emissions, and preserve the heritage capital of EU.