



*The second life of modern period architecture:
Resilient and adaptive renovation towards net-zero
carbon heritage buildings*

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Partners



up2metric
integrated vision engineering



RIMOND



sincere-project.eu

Horizon Europe, Grant agreement ID: 101123293
Starting date: October 1st, 2023 Duration: 3 years



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The second life of modern period architecture

Building
stories



Low CO₂
restoration
mortars



18
Partners

XR
Apps

Multi-
scale
material
models

Building
integrated
photo-
voltaics



4
Pilots

Heritage
impact

Radiative
cooling
coatings

Citizen
science

Heritage
Digital
Twin

Technological innovations
Public engagement
Horizon Europe

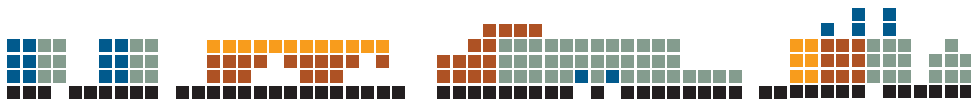
3
Years

sincere
building stories



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Technology

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

Low CO₂ Materials

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



Pilot 1
Algete, Spain

Energy Solutions

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



Pilot 3
Rhodes, Greece

ICT tools

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



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 2
Holon, Israel



Pilot 4
Ostrava, Czechia

Heritage Impact

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