

# Partners

RADIANCE brings together **14 leading organisations from 8 European countries**, combining expertise in robotics, automation, AI, construction, digitalisation, and sustainability.

The consortium unites universities, research centres, SMEs, and major industry actors to co-develop and validate next-generation solutions that make renovation and new construction safer, faster, and more efficient.



RADIANCE

## Project Coordination

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# Robotic, Automated and Digital solutions for improving building renovation and New Construction Efficiency

RENOVATION, REINVENTED



# What is Radiance?

RADIANCE is a Horizon Europe project developing an integrated suite of robotic, digital, and AI-based technologies to support the full renovation process, from inspection and diagnosis to repair, safety, planning, and sustainability assessment.

Through three real-life validation scenarios in European buildings, the project aims to accelerate renovation workflows, support workers with advanced tools, improve safety, and reduce the environmental footprint of construction activities.



# Validation Scenarios



## Inspection, diagnosis & renovation

Testing drones, NDE probes, cable-robot systems, and AI assessment tools to automate early-stage inspection, detect defects, and support repair operations.

## Human-robot collaboration & safety

Validating AR/VR tools, worker-assistance systems, predictive safety mechanisms, and human-robot interaction workflows in real renovation environments.



## Construction optimisation & logistics

Deploying the digital twin platform, quadruped robots, and planning/optimisation tools to enhance site monitoring, resource efficiency, and renovation scheduling.

**14**  
partners

**8**  
countries

**4M€**  
in EU funded

**4**  
years of  
duration