



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

From vision to action: RADIANCE in motion

Latest news, scientific contributions and project developments.



Dear Community,

During the past months, **RADIANCE** has continued advancing towards safer, smarter and more sustainable renovation through robotics, AI and digital technologies.

In this edition, we share highlights from our first General Assembly, our latest scientific publications, new multimedia resources and recent communication activities.

Introducing **RADIANCE**



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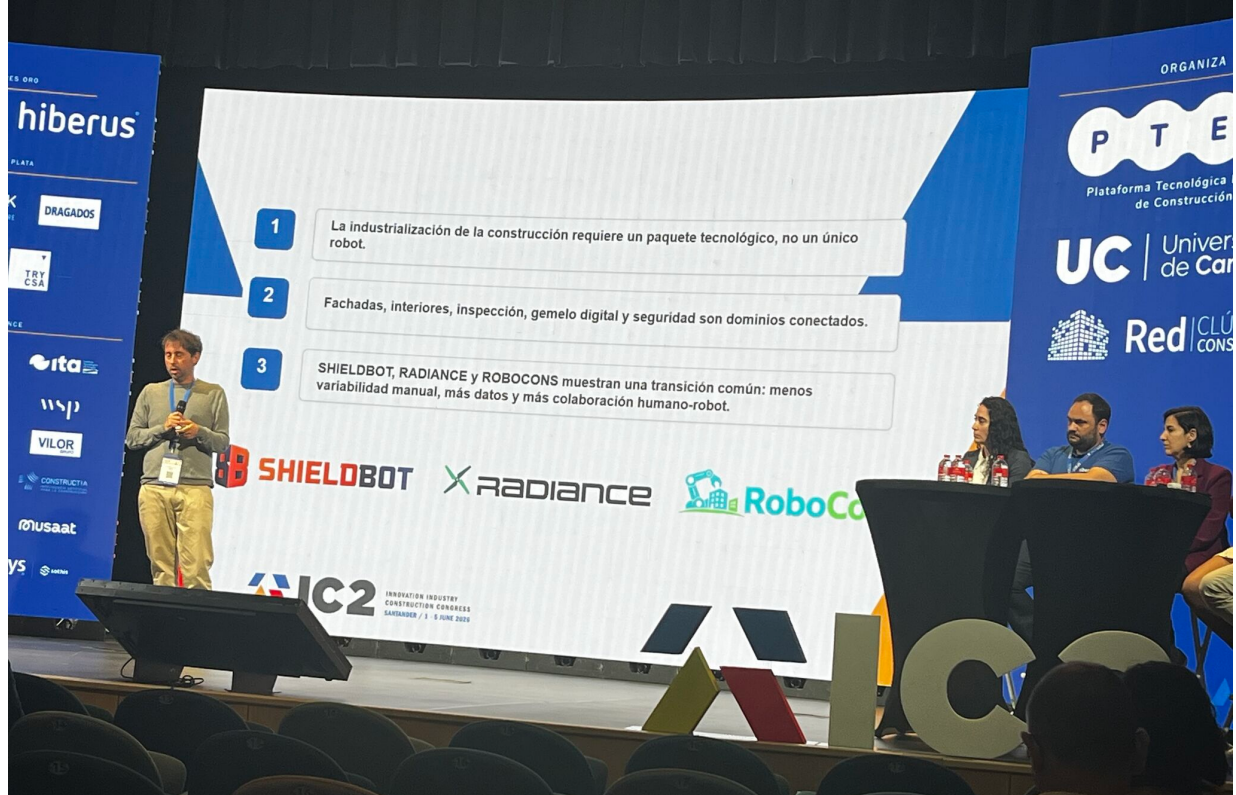
Latest **Highlights**



1st General Assembly: Driving RADIANCE forward

The RADIANCE consortium recently gathered for its 1st General Assembly, bringing partners together to review the project's progress, strengthen collaboration, and coordinate the next steps across all Work Packages and Validation Scenarios. The meeting reinforced our shared commitment to advancing robotics, AI, and digital technologies for smarter and safer building renovation.

[Learn more about it](#)



RADIANCE at IC2: Showcasing Construction 2.0

RADIANCE participated in the Innovation Industry Construction Congress (IC2) 2026 alongside the RoboCons and ShieldBot projects. The event provided an excellent opportunity to present how robotics, automation, and digital technologies are shaping the future of construction through safer, smarter, and more efficient renovation processes.

[Click for more information](#)



Robotics in focus: RADIANCE joins ERF 2026

The European Robotics Forum (ERF) 2026 brought together leading researchers, innovators, and industry representatives to discuss the future of robotics and AI. RADIANCE joined the conversation, strengthening connections with the European robotics community while showcasing how advanced technologies can support safer, smarter, and more efficient construction and renovation processes.

[Read more about the collaboration](#)

Research Corner

AI for Smarter Maintenance: New Scientific Publication

The RADIANCE consortium continues advancing research through a new scientific publication presented at the ESREL 2026 Annual Conference. The paper explores how Large Language Models (LLMs) can support intelligent maintenance planning and decision-making, reinforcing the role of AI in creating safer, smarter, and more efficient infrastructure inspection and maintenance workflows.

[Read the full paper here](#)

Smarter Drone Navigation: Vision Transformers for UAV Planning

A new scientific publication linked to RADIANCE explores how Deep Learning and Vision Transformers can improve risk-aware UAV path planning in complex urban environments. The research highlights the potential of intelligent drone navigation to enhance autonomous inspection, operational efficiency, and safety in construction and infrastructure applications.

[Read the full paper here](#)

Latest Articles



Construction Site Logistics: planning for the long run:

Effective logistics is essential for reducing delays, waste, rework, and rising costs in construction and renovation projects. This article explores how planning, material management, digital twins, AI, robotics, and real-time monitoring can help create smarter, more coordinated, and more efficient construction sites.

[Read the full article here](#)



Construction Site Safety: Can Robots Reduce Risks

Construction remains a high-risk sector, but robotics, AI, drones, and human-robot collaboration are opening new possibilities for safer working environments. Discover how these technologies can reduce workers' exposure to demanding tasks, and how RADIANCE is contributing to the future of construction site safety.

[Read the full article here](#)



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RADIANCE is a Horizon Europe research and innovation project developing robotic, automated, and digital solutions to improve building renovation and construction efficiency.

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