

PRESS RELEASE #1

Success for CARMA: Collaborative Robots Validated in Madrid

Hosted by the Madrid Municipal Police

International partners from across Europe demonstrate the power of cross-border innovation in managing complex CBRN industrial accidents

Madrid, March 19, 2026 – The CARMA Consortium, a leading European initiative in robotics and emergency management, has reached a major milestone with the successful completion of its first large-scale operational pilot. This exercise, held at the headquarters of the Madrid Municipal Police, served as a decisive validation of how integrated robotic systems can safeguard European citizens and first responders during high-risk chemical, biological, radiological, and nuclear (CBRN) incidents.



A European Success Story in Robotics

The pilot was a collaborative effort involving the entire CARMA consortium, including technical and operational partners from **Spain, France, Greece, Germany, Austria, and Switzerland**. Working alongside local emergency services such as Madrid's Municipal Police, Fire Department, and SAMUR-PC, the consortium demonstrated a seamless integration of international technology into local operational procedures.

The scenario involved a complex traffic accident with a chemical leak and a trapped victim. CARMA's robotic fleet led the intervention, proving the consortium's ability to:

- **Synchronize multi-robot 3D scanning** to secure the area and identify hazards autonomously.
- **Execute advanced computer vision** to recognize **Hazard Labels (ADR)** and UN identification numbers in real-time.



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Collaborative Autonomous Robots for eEmergency Assistance

- **Standardize victim triage** through robotic interaction, providing critical data to medical teams before they enter the danger zone.
- **Optimize rescue logistics** by assisting in the extraction and transport of casualties to decontamination areas.

CARMA C2: The Heart of the Mission

Central to the pilot's success was the **CARMA C2 (Command and Control) platform**. This tool, developed through the joint expertise of the consortium partners, provided a unified digital workspace for all participating agencies. By streaming real-time data from robotic sensors to tablets and command centers, CARMA C2 empowered decision-makers to manage human and robotic resources with unprecedented precision and safety.



Building the Future through Feedback

The exercise benefited from the **direct participation of over 30 end-users and stakeholders**, who tested the technology in the field. This collaborative feedback loop is a cornerstone of the CARMA project, ensuring that the final European solution is built by and for the professionals who face these risks daily.

The event received significant attention from the Spanish national press and major television networks like **Telemadrid**, highlighting the project's role as a promising pillar of the European Union's strategy for resilient societies. The CARMA partners continue to work diligently to ensure that the emergency interventions of tomorrow are safer, smarter, and truly European.





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Collaborative Autonomous Robots for eMergency Assistance

About CARMA

CARMA is a project designed to push the boundaries of innovation, developing next-generation technologies and solutions that will strengthen Disaster Resilience Societies (DRS) under the Horizon Europe framework.

From tackling challenges in emergency response to creating more effective, agile, and intelligent systems, CARMA is set to redefine how humans and robots work together for the greater good.

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CARMA Consortium

The CARMA Project brings together **12 partners from 5 EU countries and 1 associated country.**



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