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**SACYR SIGNS COLLABORATION AGREEMENT WITH GMV
FOR TRAFFIC CONE PLACEMENT AUTOMATION**

- **The aim is to develop an autonomous system able to read traffic signs, position, and distance during operations, and place and remove traffic cones safely.**
- **The project is a strategic alliance to move forward on road safety automation and traffic management optimization.**

Madrid, October 17, 2023.- Sacyr has signed a **collaboration agreement with tech multinational GMV to develop a prototype** for a traffic cone placement autonomous system.

The project is entitled **Automatic Cone Machine Safe Signaling System (ACM3s)** and is developed by Sacyr Maintenance and involves the design of an autonomous system able to manipulate traffic cones for safer traffic diversion operations. Funded by the CDTI, the project duration is two years.

ACM3s aims to develop a method for proper signaling of road works, position and distance during operations, and the safe placement and removal of traffic cones. This self-operating system, without need of human intervention, incorporates GMV's solution, **uPathWay**, which allows moving robots to move autonomously.

An innovative road safety system

This innovative road safety system is an evolution of road signaling trailers, so that a maintenance vehicle towing a trailer that can be automatically detached at the start of the lane diversion. The self-driving tow trailer follows the car (leader-follower technology)

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and places the traffic cones to channel traffic as per safety protocols and can detect obstacles while respecting traffic restrictions. When the operation is complete, the self-driving tow trailer attaches itself again to the main vehicle.

To safely place and remove traffic cones, the tow trailer is fitted with a **robotic arm that places and removes the traffic cones via an AI-powered algorithm system** that interprets its own relative position to other elements. This solution enhances road safety practices and simplifies operations by eliminating human intervention in certain processes.

This project is part of Sacyr's commitment to the **health and safety of its professionals**. Sacyr applies innovation and new technologies to improve infrastructure conservation and maintenance and guarantee worker and road user safety. ACM3s will improve road safety practices and will detect the presence of vulnerable users.

About GMV

GMV, founded in 1984, is a Spanish private capital business group with an international presence. Its operations focus on Space, Aeronautics, Defense and Security, Intelligent Transportation Systems (ITS), Automotive, Cybersecurity, Healthcare, and Digital Public Services, Industry, Financial sector, and Services.

In 2022 it had revenues over €311 million. With over 3000 professionals, GMV has offices in Spain, the United States, Germany, France, Poland, Portugal, Romania, the United Kingdom, the Netherlands, Belgium, Malaysia and Colombia, and 75% of their turnover is from international projects. GMV's growth strategy is based on continual innovation, with 10% of its turnover going to R+D.

About Sacyr

Sacyr is a global infrastructure and services company with a clear-cut focus on P3 projects with operations in 20 countries worldwide, its goal is to make society advance

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towards a sustainable future with innovative projects that create a positive social, economic, and environmental impact on all its stakeholders.

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