

ASTM GROUP: SINELEC TO IMPLEMENT SMART ROAD SYSTEMS AND DYNAMIC MONITORING OF BRIDGES AND VIADUCTS ON A24 ROME-L'AQUILA AND A25 TORANO-PESCARA MOTORWAYS

- **The planned interventions will make it possible to:**
 - increase the safety level of the infrastructure
 - enhance the connectivity of the road ecosystem
 - monitor the behavior of civil engineering structures
 - implement fast charging systems for electric vehicles.
- **The award of this project reinforces ASTM Group's leadership in developing advanced technological solutions for rendering motorways more modern, safe, sustainable and resilient**

Tortona, 13 October 2022. Sinelec, the technology company of ASTM Group, was awarded in joint venture the tender for the design and implementation of smart road systems and dynamic monitoring on the A24 Rome-L'Aquila and A25 Torano-Pescara motorways.

The value of the framework agreement, promoted by the Special Commissioner for the upgrading and anti-seismic safety of the A24 and A25 motorways, is about 200 million euros.

The joint venture led by Sinelec includes Itinera and Euroimpianti, respectively the construction and plant engineering companies of the ASTM Group, and PSC and Alpitel, with the project to be designed by RINA Consulting, PROGER, SINA (ASTM Group) and Carlorattiassociati.

The planned interventions, which will take place along the 280 km of motorways connecting Lazio with Abruzzo, will:

- increase the safety level of the infrastructure;
- increase interaction with road users;
- monitor the reaction of the structures to degradation phenomena that contribute to a reduction in the resistance and resilience of the works; and
- implement eco-sustainable systems for power generation from renewable sources and for rapidly charging electric vehicles.

The technological innovation that Sinelec will implement concerns three main areas of intervention:

1. Smart Road Systems.

Smart road systems include telecommunication facilities supporting connected mobility, systems for traffic and environmental monitoring, as well as systems to control and process the collected data. These will include, for example, smart cameras for automatic accident detection, dynamic truck weighing systems, and technologies to enable vehicle-infrastructure communication.

2. Green Islands

Green Islands are multi-functional areas intended for clean energy generation and storage. These hubs will also house rapid electric charging stations for motor vehicles and drone charging and landing/takeoff areas. A total of 14 Green Islands are planned along the entire development of the A24-A25 motorways.

3. Monitoring Systems.

The infrastructure monitoring system will cover 170 bridges and viaducts with a total of 836 spans that

will be monitored overall through dynamic and static systems. These systems will enable the evaluation of the natural aging process of artworks and thus plan interventions in the most efficacious manner.

The award of this project reinforces the ASTM Group's leadership in developing advanced technological solutions to render motorways more modern, safe, sustainable and resilient. The Group, through its subsidiaries that cover the entire infrastructure value chain with integrated expertise in the design, construction and digitization phases, is today "best in class" in the processes of implementing Smart Road systems.

ASTM is, in fact, involved in the "digital transformation" intervention of the A4 Turin-Milan that projects the highway into a new dimension, among the most modern and advanced in Europe. In addition to the A4 Turin-Milan initiative, which is focused on the stretch under ASTM's competence, Sinelec is involved in an important outside-group project on the A4 Brescia-Padua and A31 Valdastico motorway sections, promoted by A4 Holding, which involves the construction of a new traffic management operations center and a platform for connected mobility.

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ASTM Group is a world leader in the management of motorway networks and in the design and construction of large infrastructural works. Present in 15 countries and with approximately 17,000 employees and collaborators, the Group's activities are focused on three main areas: management of motorway infrastructures (concessions), design and construction of major works (EPC - Engineering, Procurement and Construction) and technology applied to transport mobility. In the area of concessions, the Group is the second largest operator in the world in the management of motorway infrastructures with a network of approximately 6,200 km of network, of which over 1,400 km in Italy, 4,700 km in Brazil through the listed company EcoRodovias and 84 km in the United Kingdom through a participation in Road Link

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