



18TH ROAD SAFETY CONFERENCE

9th March 2026, Chambéry

SMART CONSTRUCTION SITES THE ADS INNOVATIVE MODEL



Maurizio Pascucci
Autostrade dello Stato S.p.A.

Hosted by



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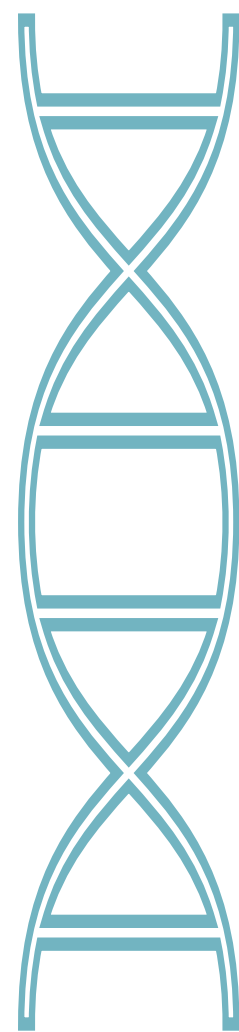


PROJECT ROADMAP

AUTOSTRADE DELLO STATO – WHO WE ARE

Autostrade dello Stato is the in-house company of the Italian Government.

Founded in April 2024, it was established to design, build, maintain, and manage toll highway sections and related services, ensuring safety, efficiency, and innovation.

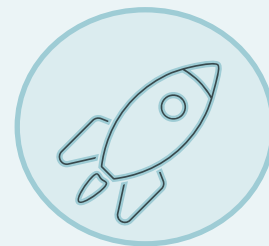


User-centric approach

Safety

Sustainability

OUR MISSION



To manage motorways and foster innovation, ensuring the safety of the road network, reducing environmental impact and promoting sustainable mobility.

PARTICIPATED MOTORWAY CONCESSIONAIRES



DEVELOPMENT PILLARS

INNOVATION FOR...

SAFETY

A hyper-connected technological ecosystem capable of ensuring an advanced motorway infrastructure, equipped with high safety standards and designed to prevent potential risks.

USER CENTRIC APPROACH

A technological motorway infrastructure engineered to deliver a safe, comfortable, connected, efficient, modern, and sustainable travel experience, serving the communities and territories it crosses.

SUSTAINABILITY

Smart and innovative technologies to minimize environmental impact, protect ecosystems, and promote sustainable mobility.

ADS – THREE YEAR PROGRAMME FOR INNOVATIVE PROJECTS (2025–2027)



MOTORWAY OPERATORS



PROJECTS

- Infrastructure Monitoring System
- Infrastructure Surveillance System
- Drone for Infrastructure Diagnostic Mapping
- Fire Brigade – Emergency Management
- Multi-Lane Free Flow
- Smart Worksites
- Continuous Traffic Monitoring

SMART WORKSITES (1/2)



SCOPE

- N. 1 Permanent Worksite
- N. 1 Temporary Worksite

SAFETY / SECURITY Use Case Coverage

- a) Man Down
- b) Geofencing
- c) Evacuation
- d) Video Analytics / AI-Based Anti-Collision
- e) Confined Spaces
- f) PPE (Personal Protective Equipment)
- g) Smart Signage (equipped with a sensor that detects and reports tipping in the event the sign is accidentally struck by passing vehicles or by construction site machinery)

SMART WORKSITES (2/2)

SCOPE

N. 1 Permanent Worksite

TECHNOLOGY

Robot Dog
Video Analytics

PILOT PROJECT:

- integration of a robot dog equipped with sensors;
- IoT component, and video analytics module,
- Artificial Intelligence enabled software platform for monitoring and surveillance of the construction site environment.

Goal: enforcement and enhancement of safety management processes and procedures within worksites.



PROJECT ROADMAP

Project Design

January – April 2026

Tender launch

by May 2026

Tender award

by September 2026

Project implementation

by December 2026

THANK YOU

Presented by:

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