

Section 1 - Contact details

Organisation Name (full name)	Autostrade per l'Italia
Type of organisation	Large company
City	Rome
Country	Italy
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Contact person (name and surname)	Federico Di Gennaro – Head of Innovation, Study Center and European Projects
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Section 2 – Sector of interest

Work programme	Cluster 3
Topic according to the work programme	Destination - Resilient Infrastructure HORIZON-CL3-2026-01-INFRA-01: Tools and processes to support stress tests of critical infrastructure HORIZON-CL3-2026-01-INFRA-02: Security challenges of the green transition in urban and peri urban areas HORIZON-CL3-2026-01-INFRA-03: Targeted innovative capabilities for the resilience of critical entities to natural and human-induced disasters, including hybrid scenarios HORIZON-CL3-2027-01-INFRA-01: Enhancing physical protection of critical infrastructures Destination - Disaster-Resilient Society for Europe HORIZON-CL3-2026-01-DRS-01: Designing new ways of risk awareness and enhanced disaster preparedness HORIZON-CL3-2026-01-DRS-02: Multihazard approach and cumulative / cascading impacts HORIZON-CL3-2026-01-DRS-03: Development of innovative tools, processes, equipment and technologies through responses to disasters and emergencies for search and rescue in hazardous conditions HORIZON-CL3-2026-01-DRS-04: Open topic on driving innovation uptake of disaster risk solutions HORIZON-CL3-2027-01-DRS-03: Enhancing decision support system for disaster crises: leveraging emerging technologies for improved civil preparedness and crisis management HORIZON-CL3-2027-01-DRS-04: Enhancing preparedness for large-scale cross-border disasters Destination - Strengthened Security Research and Innovation HORIZON-CL3-2026-01-SSRI-01: Open topic on supporting disruptive technological innovations for civil security

Section 3 - Description of the expertise and/or project idea

Description of the expertise (max 2.000 characters)	Autostrade per l'Italia (ASPI) is one of Europe's leading motorway infrastructure operators, managing approximately 3,000 km of strategic toll motorway network across 15 Italian regions. The company ensures the operation, maintenance, digitalisation, and continuous upgrading of one of the continent's most heavily
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Partner Profile Horizon Europe

	used mobility systems. Beyond its core role as infrastructure concessionaire, ASPI is undergoing a deep transformation into a data-driven, innovation-oriented mobility platform, integrating advanced digital technologies, AI-based monitoring systems, predictive maintenance, and satellite and sensor-based asset management to enhance safety, resilience, and operational efficiency. Within this transformation, ASPI operates a structured innovation ecosystem involving engineering companies, digital subsidiaries, and research partnerships, actively collaborating in European research and innovation programmes (including Horizon Europe). Key focus areas include: • Resilient and secure transport infrastructure under climate and cyber risks • Advanced monitoring and predictive maintenance using AI, IoT, and digital twins • Crisis management and infrastructure safety systems • Interoperable mobility data platforms supporting C-ITS and connected mobility • Sustainable infrastructure management aligned with EU Green Deal and SDGs • Innovation in inspection technologies (drones, satellites, remote sensing) ASPI's scale, operational complexity, and real-time management of critical infrastructure make it a unique large-scale living laboratory for testing and validating innovative solutions in real operational environments, directly aligned with the objectives of Horizon Europe Cluster 3 – Civil Security for Society. Through its national footprint, technical expertise, and established European partnerships, ASPI contributes to strengthening resilient, safe, and sustainable transport infrastructure across Europe, supporting the development and deployment of next-generation mobility and infrastructure security solutions.
Description of the project idea	

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