



# ATLANTIS

## LSP#1:

### "Cross-Border/Cross Domain Large Scale Pilot in Transport, Energy and Telecoms"

"A Collaborative Approach to Secure Transport, Energy, and Telecommunications"

#### Key Focus:

**Domains:** Transport (Sea, Rail, Road), Energy (Oil), Telecommunications  
**Countries Involved:** Slovenia, Croatia, Italy, France



#### Key Participants:

##### CI Operators:

Sea ports in Rijeka, Croatia, and Koper, Slovenia. National rail operators in Slovenia and Italy. National highway operator in Slovenia. Cross-border Frejús tunnel operator on the Italian side, fire and rescue service providers on the French side of the tunnel. Slovenian oil derivatives distributor. Slovenian telecommunication service provider.



#### LSP#1 Overview

The LSP#1 focuses on increasing resilience of the critical infrastructures that enable smooth, secure, and safe running of essential services within and across the transport (sea, rail, road), energy (oil), and telecommunication domains, within and across the national borders of neighbouring EU countries Slovenia, Croatia, Italy, and France. This pilot involves CI operators and authorities along the Mediterranean Corridor, one of the main priority axes of the Trans-European Transport Network (TEN-T), connecting the Mediterranean Basin with Central Europe and Ukraine. The corridor primarily consists of road and rail, but it also provides a multimodal link for the ports of the Western Mediterranean with the centre of the EU.

#### Authorities:

Ministry for Infrastructure, Slovenia  
 Government Information Security Office, Slovenia  
 Ministry of Interior, Railway State Police, Italy

#### Challenges & Approach:

**Common Risks:** Environmental hazards, Cyber threats, Geopolitical tensions  
**Need for a Unified Strategy:** Addressing cross-sector and cross-border risks to increase resilience and minimize cascading effects.

#### Technologies Tested:

**Digital Twin:** Visualization of critical assets, shared alerts, and cross-organisational communication.  
**SAFER:** Situational awareness and decision-making tool for cross-organisational interdependencies.  
**SIGMO-IDS:** AI-based network monitoring for detecting unknown cyber-attacks.  
**SNIFFER:** Air quality assessment, monitoring pollutants, and CO2 levels.  
**CRIMSON:** Hypervision tool providing a Common Operational Picture and mobile app for on-field users.  
**HIVIC:** Incident reporting with a human-centric approach integrating technology, processes, and people.  
**IoC :** Detects potentially malicious activities on systems/networks.  
**Earth Observation:** Natural hazard modelling and risk assessment.  
**RRIM:** Risk Reduction and Incident Management Tools.

#### Impact:

Enhanced Resilience through cross-sector collaboration and innovative technologies.



## Consortium of Companies



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