ATLANTIS

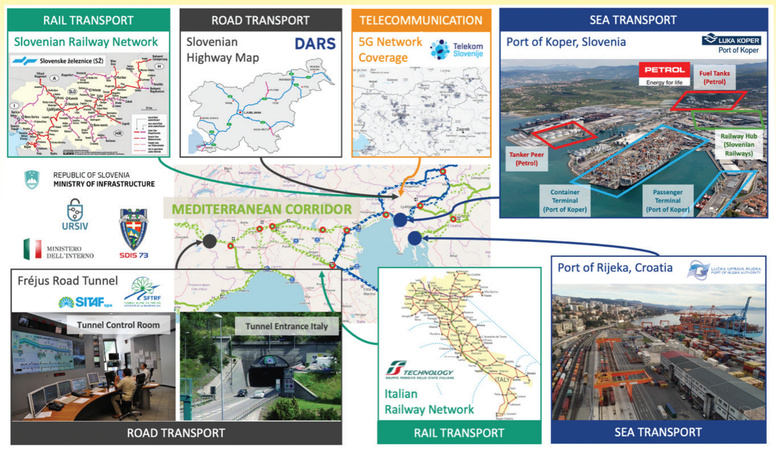
LSP#1:

"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 operatorson the Italian side, fire and rescue service providers on the French side of the tunnel.
Slovenian oil derivatives distributer.
Slovenian telecommunication service provider.

Croatia Slovakia Italy France

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

Engineering
Ingegneria Informatica S.p.A.
[Italy]

CS Group
[France]

SIXENSE ENGINEERING
[France]

Netcompany-Intrasoft
[Luxembourg]

European Union Satellite Centre
[Spain]

CaixaBank S.A.
[Spain]

Links Foundation
[Italy]

Ministry of Citizen Protection, Hellenic Police
[Greece]

SingularLogic
[Greece]

Telekom Slovenije d.d.
[Slovenia]

SIEMENS AG
[Romania]

Synelix Solutions S.A.
[Greece]

Vicomtech Foundation
[Spain]

CEA List Institute
[France]

Institute for Corporative Security Studies, ICS Ljubljana
[Slovenia]

NetU Consultants Ltd.
[Cyprus]

Byte computer S.A.
[Greece]

Snep Asset Management d.o.o.
[Slovenia]

Athens Technology Center S.A.
[Greece]

SITAF S.p.A.
[Italy]

Jozef Stefan Institute
[Slovenia]

JRC Capital Management
[Germany]

Ferrovie dello Stato Technology S.A.
[Italy]

Cybercrime Research Institute GmbH
[Germany]

Luka Koper
[Slovenia]

Port of Rijeka Authority
[Croatia]

DARS
[Slovenia]

Hygeia
[Greece]

Ministero Dell' Interno, Dipartimento di Pubblica Sicurezza, Polizia di Stato
[Italy]

KEMEA – Centre for Security Studies
[Greece]

Slovenske Železnice
[Slovenia]

Petrol d.d.
[Slovenia]

Republic of Slovenia, Government Information Security Office
[Slovenia]

Centre of Research & Technology Hellas (CERTH)
[Greece]

Service Départemental d'Incendie et de Secours de la Savoie
[France]

Ministry of Infrastructure of the Republic of Slovenia
[Slovenia]

University of Rijeka, Faculty of Maritime Studies
[Croatia]

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