

Greenet



The network of Horizon Europe
Cluster 5 National Contact Point.

HORIZON-CL5-2023-D6-01-06: Zero-emission e-commerce and freight delivery and return choices by retailers, consumers and local authorities

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Stam at a Glance

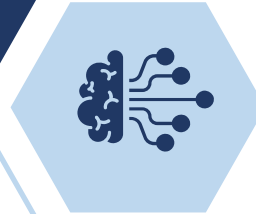
Italian high-tech Engineering SME

ID CARD

- 4 MEuro turnover
- 25 years in business
- 600+ projects delivered

Staff

- 50+ Graduates and PhD
- 35 average age



R&D

- 13+ M€ grants
- 250+ M€ projects value
- Ranked 1st Italian SME in H2020/HE

Network

- 1.000+ Partnerships
- 20+ Districts or Cluster Participations



**Security, Transport
& Logistics**



**Space &
Defence**



**Energy, Circular and
Sustainable
Economy**



**Industry 4.0 &
Automation**



Modelling & Simulation

- **Agent-based** and **multi-method** modelling and simulations
- **Augmented reality** and **serious gaming**

Decision-Support Tools

- **Cyber-Physical risk management**
- **Interconnections** and **cascading effects**

Automation & Robotics

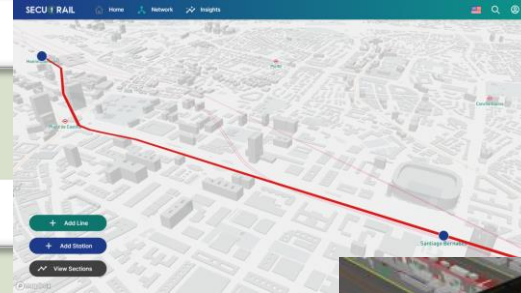
- **Human-robot** collaboration & **remote control**
- **Data-based** and **physics-based control systems**

Advanced Sensing

- **NIR-LWIR spectroscopy** and algorithms
- **GNSS signals**, modelling and meteorology

Digital solutions

- **BIM-based cloud platforms** for **asset management**
- **Digital twins** of infrastructures and systems



Relevant Track Record

SECUREMETRO (FP7, Partner)

- “Inherently secure blast resistant and fire safe metro vehicles”
securemetro.inrets.fr

DAISY (CIPS, Coordinator)

- Impact analysis and cost benefit analysis of countermeasures on airport infrastructure

RAMPART (CIPS, Partner)

- “Development of a risk assessment toolbox for the prevention and reduction of terrorist attacks on metro and light-rail critical infrastructures” - www.rampart-project.eu

FAIR Stations (H2020, Coordinator)

- “Future secure and accessible rail stations” Crowd modelling – PTI system design www.fairstations.eu

EUProtect (ISFP, Coordinator)

- “Development of New Solutions for the Protection of European Citizens and Infrastructures Against Terrorist Threats” www.euprotect-project.eu

VALU3S (H2020, Partner)

- Verification and Validation of automated systems’ safety and security

SAFETY4RAILS (H2020, Partner)

- Data-based analysis for safety and security protection for detection, prevention, mitigation and response in trans-modal metro and railway networks

SARDINE (POR FERS Sardegna, Partner)

- “SmArt gRid DecisioN support systEm”

CitySCAPE (H2020, Partner)

- City-level cyber-secure multimodal transport ecosystem

STREAM (H2020, Partner)

- Smart tools for railway work safety and performance improvement

MORE THAN THIS (P.O.R. FESR Liguria, Partner)

- A new mobility regulation thinking and thoroughly innovative inspired



Current Consortium

- **Stam (IT):** Digital twin development, modelling and simulation activities
- **Decathlon (IT):** Use case
- **University of Genoa (IT):** algorithm development, AI
- **Genoa Municipality (IT):** TBC

Partners sought

- Artificial intelligence, machine learning experts
- IT providers
- Circular economy experts
- Other use cases
- Local authorities
- Potential alternative coordinator

Further Topics and Expertise

HORIZON-CL5-2023-D6-01-02: Generation of scenarios for development, training, virtual testing and validation of CCAM systems (CCAM Partnership)

- Traffic modelling and simulation, digital twin, Decision-Support Systems (DSS)

HORIZON-CL5-2023-D6-01-07: Operational automation to support multimodal freight transport

- Simulation models, digital twin

HORIZON-CL5-2023-D6-01-10: Better infrastructure safety on urban and secondary rural roads throughout a combination of adaptable monitoring and maintenance solutions

- Traffic modelling and simulation, digital twin, Decision-Support Systems (DSS)

HORIZON-CL5-2023-D6-01-12: New ways of reducing serious injuries and the long-term consequences of road crashes

- Traffic modelling and simulation, digital twin, Decision-Support Systems (DSS)



Thank you for the attention!

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