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S2R-OC-IP1-01-2019

**Advanced car body shells for railways and light material
and innovative doors and train modularity**

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- Italian engineering SME
- 20+ years of experience in R&D
- 40+ successful EU R&D projects since FP4
- 100+ successful collaborative projects
- Transport & Security Area
 - PTI and accessibility
 - Reconfigurable tools for composite manufacturing
 - Software and DataBase development
 - Data analytics and monitoring
 - Mobile apps and decision-support systems
 - AI, machine learning, neural networks
 - Risk assessment and cost-benefit analysis
 - Crowd modelling and simulation
 - Analysis of user behaviour





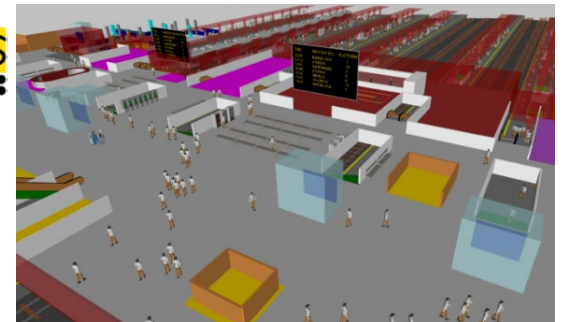
- **TRAINS SAFE** (FP5, partner) “Railway interoperable manufacture and modular safety”



- **SECUREMETRO** (FP7, partner) “Inherently secure blast resistant and fire safe metro vehicles”, securemetro.inrets.fr



- **RAMPART** (DG Home, 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”, www.fairstations.eu



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Current Consortium

- Stam (IT): PTI systems, accessibility, composite manufacturing tools
- University of Newcastle (UK): accessibility, composites and joints
- Metro de Madrid (ES): metro operator and use-case
- PRMs interest group (TBC)
- Transport association (TBC)

Partners sought

- Structural health monitoring
- Noise reduction
- Train interiors
- Driving cabin

- **S2R-OC-IP4-01-2019: Complementary Travel Expert Services**
 - Smartphone apps, support-decision systems, user behaviour analysis
- **S2R-OC-IPX-01-2019: Artificial Intelligence (A.I.) for the railway sector**
 - AI, robotics, machine learning, neural networks
- **S2R-OC-IP2-02-2019: Support to development of demonstrator platform for Traffic Management**
 - DataBase and software development
- **S2R-OC-IP5-01-2019: Condition-based and preventive maintenance for locomotive bogie**
 - Data analytics and monitoring



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