S2R-OC-IP1-01-2019
Advanced car body shells for railways and light material and innovative doors and train modularity

Umberto Battista
Area Manager, Stam S.r.l.
Project Coordinator of S2R-OC-IP3 FAIR Stations
u.battista@stamtech.com
+39 345 6589384
Company Profile

• 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
  o PTI and accessibility
  o Reconfigurable tools for composite manufacturing
  o Software and DataBase development
  o Data analytics and monitoring
  o Mobile apps and decision-support systems
  o AI, machine learning, neural networks
  o Risk assessment and cost-benefit analysis
  o Crowd modelling and simulation
  o Analysis of user behaviour
EU Railways Projects

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

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


- **FAIR Stations** (H2020, **coordinator**) “Future secure and accessible rail stations”, www.fairstations.eu
S2R-OC-IP1-01-2019 Advanced car body shells for railways and light material and innovative doors and train modularity

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
Further topics and expertise

- **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
Thank you

Umberto Battista
Area Manager, Stam S.r.l.
Project Coordinator of S2R-OC-IP3 FAIR Stations
u.battista@stamtech.com
+39 345 6589384