

E T N A
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CobotRail



MASTERING EXCELLENCE

www.stamtech.com



Umberto Battista

Area Manager

FAIR Stations (OC-IP3) Coordinator

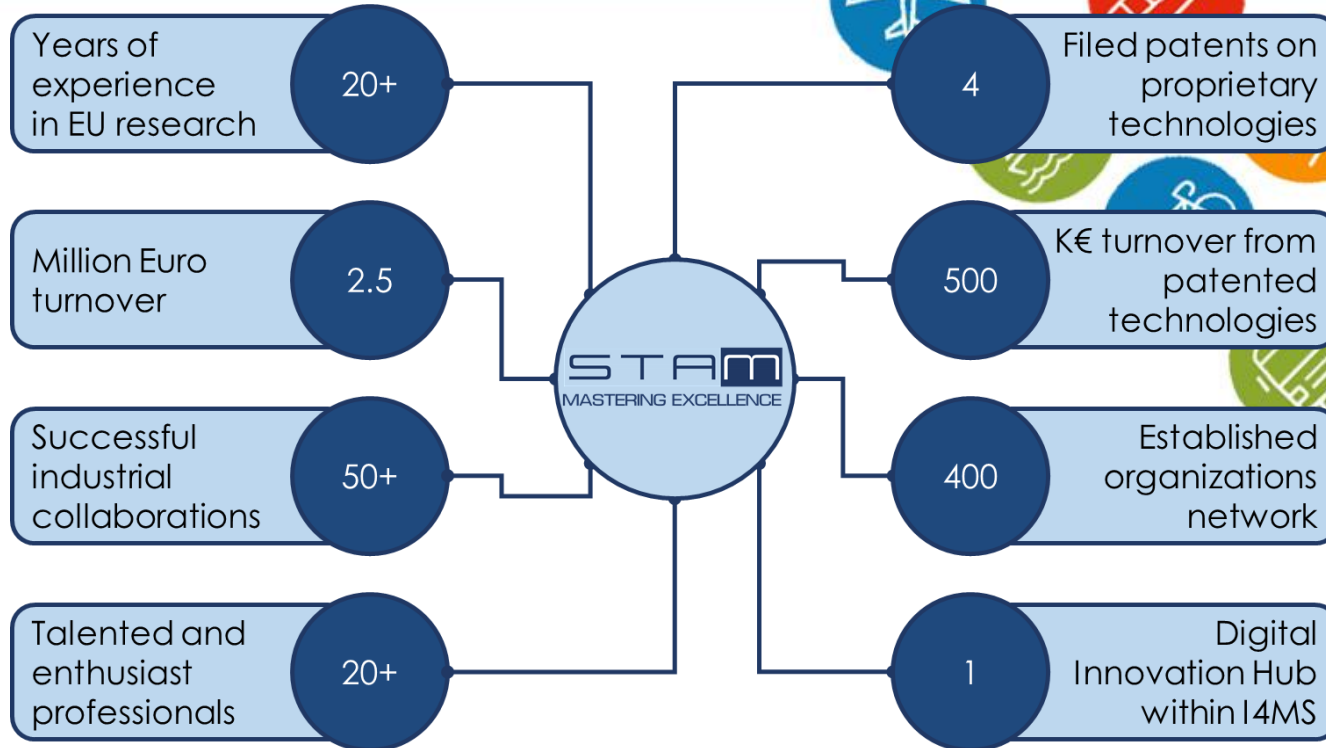
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SECURITY & TRANSPORT



SPACE & DEFENCE



ENERGY & ENVIRONMENT



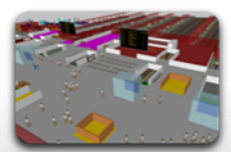
AUTOMATION & ROBOTICS



Relevant Track Record



SECURITY & TRANSPORT



FAIR Stations (H2020, **Coordinator**) “Future secure and accessible rail stations”

Crowd modelling – PTI system design

www.fairstations.eu



SECUREMETRO (FP7, Partner) “Inherently secure blast resistant and fire safe metro vehicles”

securemetro.inrets.fr



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



TRAINS SAFE (FP5, Partner) “Railway interoperable manufacture and modular safety”



EUProtect (ISFP, **Coordinator**) “Development of New Solutions for the Protection of European Citizens and Infrastructures Against Terrorist Threats”

www.euprotect-project.eu

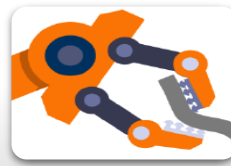


AUTOMATION & ROBOTICS



SHAREWORK (H2020, Partner) “Safe and effective HumAn-Robot coopEration toWards a better cOMpetiveness on current automation lack manufacturing processes”

www.sharework-project.eu



SOFTMANBOT (H2020, Partner) “Advanced RoBOTic Technology for Handling SOFT Materials in MANufacturing Sectors”

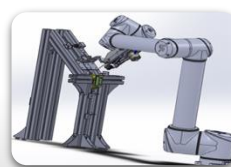
www.softmanbot.eu



AGREE (POR-FESR, Partner) “Arm exoskeleton and Grip assistance for REhabilitation and indepEndent living”



NU-ELBOW (Eurostars, **Coordinator**) “Elbow actuation of orthopaedic prostheses based on the NUGEAR principle”



FLEXICOIL (FP7, Partner) “Development of a robotic cell for coils winding”





S2R-OC-IP3-03-2020 Advanced tools and equipment: collaborative robots & wearable mobile machines

Current Consortium

- Stam (IT): cobots, ROS, system integration, mechatronics, exoskeletons
- Metro de Madrid (ES): rail operator and use-case
- University of Newcastle (UK): mechatronics, HFE
- Italian Institute of Technology (IT): robotics, Human-Robot Interaction (HRI)

Partners sought

- Plant equipment providers
- Experts in exoskeletons control
- Environment recognition
- Dynamic trajectory planning
- Additional use-cases



- **S2R-OC-IP3-02-2020 Technology Development for Railway Systems Asset Management**
 - DSS, machine learning, AI, optimization, data-driven models, risk assessment
- **S2R-OC-IP1-01-2020 Support to Development of next generation of Traction systems**
 - AI, predictive maintenance, virtual validation, Additive Manufacturing
- **S2R-OC-IP4-01-2020 Supporting the implementation of the IP4 ecosystem**
 - Urban demo site, interface, user needs & expectations
- **S2R-OC-IP2-01-2020 Modelling of the Moving Block system specification and support for Railway Minimum Operational Performance Standards**
 - Data fusion, simulations
- **S2R-OC-IP1-03-2020 Innovative technologies for Carbodies and Running Gear of the future**
 - LCC running gear components

Thank You!

ETNA
2020



Italian High-Tech Engineering SME

- High-skilled multidisciplinary team
- 50+ successful EU projects completed
- First in EU to have an SME-Instrument Phase-2 project awarded



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Open and willing to collaborate on any topic where we can bring added value

