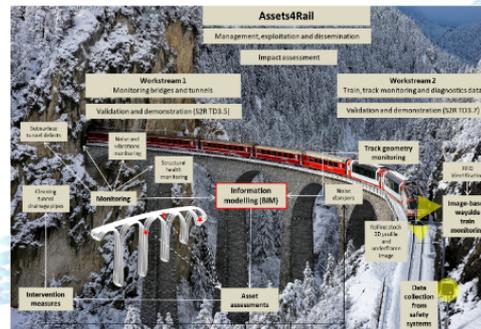


ASSETS4RAIL

Grant Agreement number: 826250—Assets4Rail—
H2020-S2RJU-2018/H2020-S2RJU-OC-2018

Project Meeting Roma 09/01/20

ASSETS4RAIL Students Competition 2020



ASSETS4RAIL Students Competition 2020

FOR WHOM AND WHY

- Open to Master and PhD enrolled students
- Opportunity for young researchers to submit innovative proposals for key research issues considered in EU co-funded project ASSETS4RAIL
- ASSETS4RAIL explores, adapts and tests cutting-edge technologies for railway asset monitoring and maintenance

<http://www.assets4rail.eu/>



RESEARCH TOPICS TO BE ADDRESSED

- **WORKSTREAM 1: improving inspection, maintenance and upgrade methods for cost reduction and quality improvement of railway bridges and tunnels, including noise and vibrations**
 - a) Optimization (costs & technical) of UAV & noise monitoring systems**
 - b) Presentation of sensor data in BIM**
 - c) Fatigue assessment of steel bridges**
 - d) Technical limitations for cleaning of long drainage pipes**
 - e) Noise dampers**

RESEARCH TOPICS TO BE ADDRESSED

- **WORKSTREAM 2: building a common measuring and monitoring system to elaborate and correlate data from all sources and to obtain a holistic view of systems conditions**
 - a) Computer vision based wayside train monitoring system**
 - b) Sensor system for measuring transversal displacement of the wheel on the rail**
 - c) Monitoring system for switch and crossing**
 - d) Integration of heterogeneous monitoring systems in the maintenance management**

WHAT TO DO

- To have clear the concerned topics introduced today and published at <http://www.assets4rail.eu/>
- Preparation of a technical report describing the innovative proposal in a maximum of 36,000 digits, including:
 - 1) Abstract
 - 2) Objectives
 - 3) State-of-the-art
 - 4) Planned development
 - 5) Methodological approach
 - 6) Potential for practical implementations and market intakes
 - 7) Timing
 - 8) Competence and economic needs

ASSETS4RAIL Students Competition 2020

HOW TO APPLY

- **Deadline to send documents: 30/04/2020**
- **Documents to send (in pdf version):**
 - 1) **Technical report (as previously defined)**
 - 2) **Certificate of enrolment at University**
 - 3) **Copy of a valid ID**
- **Address to send the documents: luca.rizzetto@uniroma1.it**
- **Communication of results: 31/05/2020**



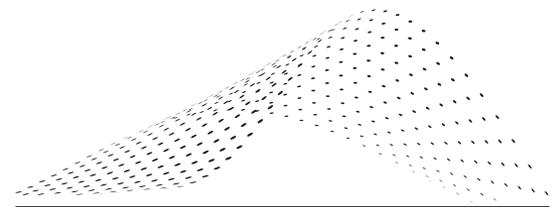
ASSETS4RAIL Students Competition 2020

FOR THE WINNER

- Diploma recognition signed by the ASSETS4RAIL Board
- Invitation with travel subsidies to present its innovative proposal during the next ASSETS4RAIL Consortium meeting, Ljubljana (Slovenia), June 2020
- Economic award of 500 Euro
- A lot of Glory !!!



**AND THE
WINNER IS...**



ASSETS4RAIL

Stefano Ricci, Sapienza Università di Roma

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Thank you for your attention!

For further questions please do not hesitate to contact the coordinator:

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Cerdanyola del Valles
08290 (Barcelona)
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