

## Innovative transport and mobility concepts

### TRA VISIONS 2020 awarded prizes to young researchers at TRA 2020

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The EU-funded competition TRA VISIONS 2020 has just awarded prizes to its winners at the TRA VISIONS Remote Award Ceremony on Tuesday September 29th (9.30-11:00 am). Young researchers from all over Europe submitted innovative concepts in order to enhance smart, sustainable and integrated transport and mobility of people and goods.

The main activity of TRA VISIONS 2020, a project funded by the European Commission under the Horizon 2020 Research and Innovation Framework Programme, is the development and implementation of two competitions. One is directed towards young researchers and the second towards senior researchers involved in EU projects. They take place every two years together with the TRA, the most important European conference on transport. TRA VISIONS 2020 invited young and senior researchers from all over Europe to submit their innovative ideas related to different transport modes (road, rail, airborne, waterborne and cross-modal).

Overall, 207 young researchers from 91 different European universities and 24 EU countries participated in the TRA VISIONS 2020 Young Researcher Competition and submitted their ideas for the transport modes of road, rail, airborne, waterborne and cross-modality.

The TRA VISIONS 2020 Young Researchers Competition awarded prizes sponsored by industry: ERTRAC for the road mode, Shift2rail for the rail mode, Deep Blue and SAFRAN for the airborne mode, WATERBORNE TP for the waterborne mode and ALICE and UITP for cross-modality. In the road sector, the winners were Pier Giuseppe Anselma, Claudio Maino, Alessia Musa from Politecnico di Torino (1<sup>st</sup> place: “THEO: a tailored hybrid emission optimizer for the drivers of tomorrow”), Milan Tešić from University of Belgrade (2<sup>nd</sup> place: “Star rating Road Safety Performances and Identifying the most significant Road Safety Indicators of a Territory”) and Ahmed Ayadi, Jakob Pfeiffer and Mohamed Ali Razouane from Technical University of Munich (3<sup>rd</sup> place: “Self-Learning Enhancement of Measurement Quality with Artificial Intelligence”). In the rail sector, the winners were Saad Ahmed Khan from Luleå University of Technology (1<sup>st</sup> place: “Effects of Friction Modifiers on the Friction, Wear and Cracks of Rails”), Visakh V. Krishna from KTH Royal Institute of Technology (2<sup>nd</sup> place: “Track Friendliness 4.0”) and Matthias Volk and Norman Weik from RWTH Aachen University (3<sup>rd</sup> place: “Reliability Analysis of Railway Station Infrastructure based on Dynamic Fault Trees”). In the airborne sector, the winners were Matteo Marchionni from Brunel University London (1<sup>st</sup> place: “A Novel Concept for a Zero-Emission Aircraft Turbo-fan Engine using CO<sub>2</sub> in the Supercritical Phase as Primary Working Fluid”), Roberto Merino-Martinez from Delft University of Technology (2<sup>nd</sup> place: “Seeing with sound – Towards silent aviation”) and Panagiota Polydoropoulou from University of Patras (3<sup>rd</sup> place: “Increased multifunctionality by filling Carbon Nanotubes with healing agent”). In the waterborne sector, the winners were Thiago Pessôa from Technical University of Denmark (1<sup>st</sup> place: “Monitoring, Reporting, and Verification of CO<sub>2</sub> Emissions in Shipping: Identification and Comparison of Available Methods”), Alexandros Lampoglou and Christos Mantolas from Newcastle University (2<sup>nd</sup> place: “Automated Fuel Oil Management Unit”) and Victor Bolbot from University of Strathclyde (3<sup>rd</sup> place: “Dynamic Blackout Probability Monitoring System for Cruise Ship Power Plant”). Finally, in cross-modality, the winners were Nikolaou Paraskevas from University of Cyprus (1<sup>st</sup> place: “Controlling the Possible Spread of Infectious Diseases through the Air Transportation Network: A Dynamic Network Approach”), María J. Alonso González from Delft University of Technology (2<sup>nd</sup> place: “Potential Uptake of Mobility-as-a-Service for Different Market Segments”) and Ioulia Markou from the Technical University of Denmark (3<sup>rd</sup> place: “Prediction of



*traffic anomalies due to special events’’).*

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Further details on the competitions, the winners and the participants may be found at [www.travisions.eu](http://www.travisions.eu).

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Released for publication. We kindly request a specimen copy after publication; for further enquiries please contact:

**Project coordinator:**

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WEGEMT

George Smyrnakis

WEGEMT Secretary General

8-9 Northumberland Street

London, WC2N 5DA

Tel: +44 2071938248

Email: [george.smyrnakis@ncl.ac.uk](mailto:george.smyrnakis@ncl.ac.uk)

**Communications contact:**

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FEHRL

Angelica Coldibeli

FEHRL – Europe’s National Road Research Centres

Boulevard de la Woluwe 42/B3

1200 Brussels |

Belgium

Email: [Angelica.Coldibeli@fehrl.org](mailto:Angelica.Coldibeli@fehrl.org)



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