



WP1 Consortium Members:

An overview of key
contributions and roles



ROLE IN WP1

CERTH will lead:

- WP1 EU-Global T&L Networks [EGTN]. CERTH leads the first Work Package of the project with the objective of providing a Simulation Capability for assessing the impacts of emerging trade routes, national strategies and technological concepts on the TEN-T corridors and the Principal Entry Nodes (PENs) interfacing TEN-T to global trade.
- T1.5 EGTN Reference Specification.
- Deliverables D1.10 (v1) and D1.11 (final version) EGTN Reference Specification.
- Subtasks ST1.3.2, ST1.5.2 and T1.5.4.

CERTH's main contribution by now is the deliverable D1.10.

OTHER ROLES

CERTH will also lead:

- D3.10 EGTN Impact Assessment, ST3.4.3 and ST4.1.2.

KEY CONTRIBUTIONS TO PLANET

- CERTH has a long participation history in EU-funded projects mainly acting as Project Coordinator or Work Package Leader.
- By utilizing cutting-edge know-how and accumulated professional experience on state-of-the-art research and innovation, CERTH methodically approaches the particularities of the parameters of PLANET project with the aim of assessing the impacts of future scenarios in the development of the Green EU-Global Integrated T&L network [EGTN] and give answers to fundamental questions regarding the three interacting layers of EGTN structure: physical, technological and governance.

CERTH



The Centre for Research and Technology Hellas (CERTH), founded in 2000, is a leading research centre in Greece, with high participation in competitive research grants. The Hellenic Institute of Transport (HIT) is one of CERTH's five Institutes, devoted to the promotion and undertaking of transport research. Its main mission is to provide state-of-the-art research and create innovation in the field of transport at a national, European and international level, addressing issues related to transport policy, planning, management, operations and infrastructure.

ROLE IN WP1

ITAINNOVA will lead:

- T1.1 EGTN Modelling & simulation capability. This task will: (a) Consolidate the initial view of EGTN, in the form of four Foundational Position Papers, (b) Formulate EGTN simulation scenarios based on the LL requirements and the Foundational Papers to guide and support work in WP1 and WP2 tasks, (c) Develop an EGTN modelling and simulation capability for a comprehensive analysis of the impact of emerging trade routes, national strategies and technological concepts on trans-continental freight flows and modal split to/from Europe and on the required interfaces to the TEN-T.
- Deliverables D1.1 EGTN Foundational Position Papers and Simulation Scenarios, D1.2 (v1) and D1.3 (final version) Modelling & Simulation Capability.
- Subtasks ST1.1.1, ST1.1.2, ST1.1.3, ST1.1.5.

ITAINNOVA's main contribution by now are the deliverables D1.1 and D1.2.

KEY CONTRIBUTIONS TO PLANET

- ITAINNOVA is going to develop a multi-agent model to simulate the behaviour of corridors under the Physical Internet paradigm. ITAINNOVA will extend its core Advanced Planning applied to production, transport and logistics through data analysis and simulation in the direction of PI.

ITAINNOVA



ITAINNOVA is the Aragon Institute of Technology, a non-profit centre. Our mission is to support companies through technological research and innovation. The “Transport, Sustainable mobility” line of innovation within the ITAINNOVA strategic framework applying current technologies and knowledge to the development of new transport and personal mobility models , applying Open Data philosophy to re-use information in the field of transport and personal mobility (Advanced planning on production, transport and logistics, Modelling and simulation of logistics processes and supply chain agent integration).

ROLE IN WP1

PAN will lead:

- T1.2 TEN-T focused modelling and simulation so as its subtasks ST1.2.1. and ST1.2.2. This task aims to: a. build upon the analysis undertaken in T1.1, and use modelling and simulation in order to assess in more detail the expected impact of new trade routes on the TEN-T network b. assess the potential impact regarding disadvantaged regions and their inclusion into the international trading system and integration in the TEN-T network.
- S1.1.4 Model extensions and customization implementation, and ST1.5.1 Defining the EGTN vision for 2030.
- Deliverables D1.4 (v1) and D1.5 (final version) Simulation based impact of new trade routes on the TENT- T and disadvantaged regions.

PAN's main contribution by now is the deliverable D1.4.

OTHER ROLES

PAN will also lead:

- T4.1 Recommendations for TENT-T interfacing to Global Trade Routes.
- D4.1 Recommendations for TENT-T interfacing to Global Trade Routes.
- Subtasks ST4.1.1, ST4.1.4 and ST.4.2.1.

PAN leads and participates in Living Lab 2: Synchromodal dynamic management of TEN-T & intercontinental flows promoting rail transport. To that end, it also leads:

- T3.2 LL2: China–Rotterdam/USA focusing on rail transport so as it related subtasks ST3.2.1, ST3.2.2 and ST3.2.6.
- D3.3 LL2 Specification and Baseline measurements and D3.4 LL2 EGTN Solution description and test results.

KEY CONTRIBUTIONS TO PLANET

Panteia will develop new models and knowledge to extend its capability on modelling TEN-T support to be used in its consultancy engagements supporting decision makers to formulate, monitor and evaluate strategies for addressing the impact of new trade routes on infrastructure development

PANTEIA



Panteia (PAN) is a consultancy firm, which supports policy and decision makers, helping them to formulate, monitor and evaluate strategies for effective policy in different fields. These fields comprise economy, transport, labour market, health and education. To do so, they apply unique knowledge bases and innovative methods, supported by independent market and policy research. Together with their clients they aim to contribute to sustainable, social and economic progress. Panteia's offices are staffed by specialists who focus on specific fields of research.

ROLE IN WP1

UIRR will lead:

- T1.3 Legislation and EU policy to impact EGTN. This task aims to define the impact of forthcoming international, EU and national legislative initiatives and EU policy initiatives on the development of the EGTN.
- Subtasks ST1.2.3, ST1.3.1 and ST1.3.3.
- Deliverables D1.6 (v1) and D1.7 (final version) Legislation and EU policy to impact EGTN.

UIRR's main contribution by now is the deliverable D1.6 Legislation and EU policy to impact EGTN v1.

OTHER ROLES

UIRR will lead:

- T5.4 Policy recommendations and Impact Assessment.
- Deliverable D5.7 Policy framework analysis.

UIRR will participate in Living Lab 2: Synchronodal dynamic management of TEN-T & intercontinental flows promoting rail transport.

KEY CONTRIBUTIONS TO PLANET

The UIRR Association:

- Has experience in providing **advice and expertise** at national, European and other supranational organisations.
- Has a constant interest to improve the overall **efficiency** and development of Combined Transport.
- Is also very active in the **implementation of the nine rail freight corridors** and has been also appointed as the coordinator of the Terminal Advisory Groups (TAG) to ensure a coherent and harmonised approach within the corridors.

UIRR



International Union for Road-Rail
Combined Transport (UIRR)

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ROLE IN WP1

EUR will lead:

- T1.4 and its subtasks in WP1 (EU-Global T&L Networks [EGTN]) related to Simulation-based analysis of T&L and ICT innovations (ST.1.4.1, ST.1.4.2, ST.1.4.3). This task aims to further develop and deploy quantitative models, based on a variety of methodologies, including econometrics, statistical learning ('machine learning'), optimization and simulation.
- Deliverables D1.8 (v1) and D1.9 (final version) Simulation-based analysis of T&L and ICT innovation technologies.

EUR's main contribution by now is the deliverable D1.8.

OTHER ROLES

EUR will also lead:

- WP4 Steering innovation & building capacity towards EGTN. It will provide Open Source Libraries as part of the Transferability Framework and Capacity Building Programme.
- Subtask ST4.1.3, ST4.2.2, ST4.3.3, ST4.4.3, and ST4.5.2.

EUR participates in Living Lab 2: Synchromodal dynamic management of TEN-T & intercontinental flows promoting rail transport. For that will lead the ST3.2.3 Synchromodality on Blockchain platform.

KEY CONTRIBUTIONS TO PLANET

EUR will extend its research in Simulation-based analysis of T&L innovation technologies and will develop new synchromodality models utilising blockchain technologies which will be used by industry and for further research.

ERASMUS UNIVERSITY



Rotterdam School of Management, Erasmus University (RSM/EUR) founded in 1913 is an international knowledge institute for critical thinking and academic training, driven by a strong focus on current social issues.

RSM is the largest business school in the Netherlands and consistently ranked among the top 10 business schools in Europe. RSM is placed among the 1% of schools worldwide with Triple Crown accreditation. With 197 senior researchers and 88 PhD students RSM is one of the world's largest and most cited business school faculty.

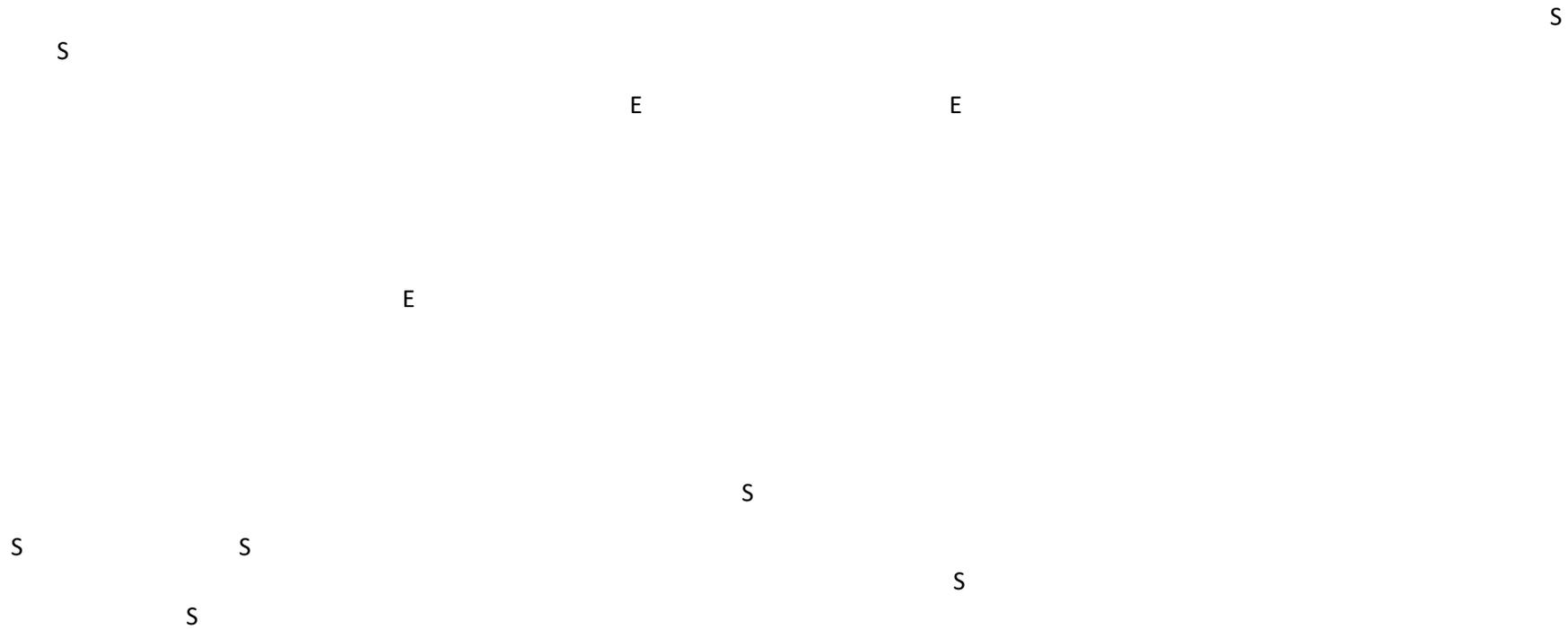
WP1 Deliverables submitted

D1.1 EGTN Foundational Position Papers and Simulation Scenarios

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D1.2 Modelling & Simulation Capability

D1.4 Simulation based impact of new trade routes on TEN T and disadvantaged region



D1.6 Legislation and EU Policy to impact EGTN

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D1.8 Simulation-based analysis of T&L and ICT innovation technologies

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D1.10 EGTN Reference Specification v1

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