PLANET – Final General Assembly Meeting

07-08 March 2023, Hybrid

PLANET's fifth General Assembly (GA) took place in the month 34 of the project and was attended by over 58 participants. This meeting, hosted by The Centre for Research & Technology, Hellas (CERTH)/ Hellenic Institute of Transport (HIT), was divided in two days and followed a hybrid format.

The first day of the event focused on the upcoming deliverables and a detailed results update of the project's three living labs.

More specifically, the morning session start with the three project's living lab presentations, covering both the technical solutions as applied in the business context of each of them and the key performance indicators. All these sessions included an interactive part where several recommendations arise. The second part of the day focused on WP1-WP5 deliverables completed and almost completed by the time of the GA Meeting.

The second day was initiated with several presentations covering the remaining WP4-WP5 deliverables due till the end of the project and concluded with a session dedicated to PLANET Advisory Board (AB), resulting in an interactive meeting with representation from all project partners. The AB meeting, began with a presentation of the Business and Commercialisation Plan showing the Business Models that support viable business cases and was followed by a presentation per Living Lab, summarising all the relevant solutions achieved.

No.	Deliverable Name	Deliverable Description
D1.3	Modelling & Simulation Capability final version	It presents the currently available models for representing freight transport processes in the intercontinental corridors, their enhancements performed during the project in relation to their key characteristics and functionalities, in order to fulfil modelling and decision-making support needs to the Living Labs' use cases. It also contains the description of the adaptation of the simulation models by the different partners, as well as the requirements gathered from the living labs' use cases.
D1.5	Simulation based impact of new trade routes on the TEN-T and disadvantaged regions final version	It discusses in more detail the potential impact of the BRI on TEN-T using several model simulations. This deliverable builds on work done in D1.4 by discussing the results of future simulations for 2030 and 2050 and two scenario simulations, namely the impact on disadvantaged regions and that of improved rail freight corridors. Based on these scenarios, the potential impact of TEN-T has been identified. Some ideas of leveraging the role of intermodal nodes, in particular the inland ones covering comprehensive logistic activities supporting local developments, are elaborated as well.
D1.9	Simulation-based analysis of T&L and ICT innovation technologies final version	It tests the PLANET integrated modelling capability developed in D1.8 through its application in various contextual scenarios based on the viewpoints of various modelling partners and foundational position papers. In sum, this deliverable demonstrates the concept of 'whole is greater than the sum of its parts' by highlighting the enhanced effect of integrating the features and potential of individual models developed across the PLANET project to model a range of operational contexts, emerging technologies, and future scenario logics.
D1.11	EGTN Reference Specification final version	Ongoing (M36)
D2.2	Open EGTN Platform Architecture final version	It explains the reasoning behind the development of the features provided, by mapping the requirements presented in the previous version with the final functionalities offered by the EGTN Platform. It materialises the platform specification defined in WP1 to an integrated architecture and a cloud-based instantiation of it on the cloud. A description of the components of the platform is presented together with detailed deployment strategies aiming to ensure that the platform can be easily adopted by any interested T&L party. The governance model of the platform defines processes for data ingestion and processing, integration and management of PI services and onboarding of users.
D2.4	EGTN IoT infrastructure final version	It ends a set of two started with PLANET deliverable D2.3. Starting from its requirements and findings, PLANET deliverable D2.4 aims at describing the final results for realising the EGTN IoT Infrastructure, thus providing an in-depth real-time visibility of the supply chain and integrating such an information within the EGTN platform environment toward a more efficient and greener logistics.
D2.6	EGTN Connectivity infrastructure final version	It purposes is to show how the integration of several heterogeneous datasets into the Connectivity Infrastructure's Knowledge Graph produces a new connected dataset and how this newly connected dataset can be queried to provide useful insights. The contents are focused on combining historical data with real-time streaming that is crucial for training and running prediction and analytics algorithms. The data can also be made available to end users through the HMI dashboards to support human decision making and analysis. The deliverable focuses on the services of the EGTN Cloud Infrastructure, their role and functionality within the overall framework and the details of their implementation as well as communication within the infrastructure itself.
D2.10	Cloud deployment of EGTN logistics services	It provides an updated description on the methodologies, implementations and deployments of services, based on AI and optimisation, first discussed in deliverable D2.9
D2.14	Intelligent PI Nodes and PI Network services final version	It is the updated version of deliverable 2.13 and proposes methods and algorithms, that adapt legacy T&L practices to the operational principles of the Physical Internet. These methods have been identified based on the challenges identified in the Living Labs but have been developed in a Living Lab agnostic way into services, as part of a more generalized framework of T&L solutions. The deliverable focuses both on the algorithms and their performance, as well as the EGTN platform that embodies the algorithms, their interactions with other EGTN services and where applicable with the interaction with the user.
D2.16	Integration and Interoperability of proprietary Blockchain Systems for Seamless Global Trade Workflows final version	It is the second and final report on the integration and interoperability of proprietary Blockchain systems as part of the PLANET project. The report aspires to inform any stakeholder or consortium of stakeholders involved or interested in the design of innovative, cross-organisational EU-Global T&L networks, but also any stakeholders interested in the deployment of Blockchain interoperability solutions in T&L or any other field in which the use of smart contracts can be applied.

D2.18	EGTN smart contracts and associated PI motivated workflows in the context of SLA management final version	It is the final version of deliverable 2.17 and focuses on the design and structure of the Blockchain-enabled smart contracts which are called to facilitate, verify, or enforce the negotiation or performance of a contract or an aspect of the SLA. The report aims to inform any stakeholder or consortium of stakeholders involved or interested in the design of innovative, cross-organisational EU-Global T&L networks, but also any stakeholders interested in the deployment of Blockchain interoperability solutions in T&L or any other field where the use of smart contracts can be applied by replacing existing paper-based contracts.
D2.20	Unified HMIs implementation and technical documentation final version	It is the final version of deliverable 2.19, detailing the final work on the Human Machine Interfaces (HMI) methodology, the mapping of the user requirements to the functionality of the dashboard visualities and the final technical design aspects. The report is also intended to be used as a user manual to further assist the community to easily and quickly adopt and re-use the platform's functionality.
D3.2	LL1 EGTN Solution description and test results	It continues the work carried out in D3.1 and provides a detailed description of LL1 EGTN Solution and the tests results obtained as part of the assessment of EGTN LL1 implementation. For the obtained test results, the deliverable provides a business impact and technology validation analysis based on the execution of impact-based surveys and the validation of test results against specific KPIs previously defined in D3.1.
D3.4	LL2 EGTN Solution description and test results	Ongoing (M34)
D3.6	LL3 EGTN Solution description and test results	Ongoing (M34)
D3.8	EGTN Generic use case final version	Ongoing (M34)
D3.9	Application of EGTN generic Use Case in port of Sines	Ongoing (M34)
D3.10	EGTN impact assessment	Ongoing (M36)
D4.1	Recommendations for TEN-T interfacing to Global Trade Routes	It identifies which funding mechanisms (HE and CE) can be applied to further develop the disruptive technologies or to fund the necessary infrastructural developments. It also synthesizes the funding and proposes new CEF and HE call topics that can serve as guidelines for the 2030 review of the programs aiming at contributing to the transition of TEN-Ts the next generation of PI enabling EGTNs.
D4.2	Policy guide, Briefing sheets and case study on freight transport for policymakers in emerging economies	It provides information and tools for logistics and policymakers stakeholders policymakers. More specifically, the policy guide aims to promote technology and policy transfer from the experiences of the PLANET project in the EU to emerging economies by increasing decision-makers' awareness.
D4.3	Electronic Visualization Library of outputs from WP1-WP2 and WP3	Ongoing (M36)
D4.4	PI-facilitating technology Roadmaps for EGTN	Ongoing (M36)
D4.5	Recommendations for PLANET standardisation	Ongoing (M36)
D5.6	Business & Commercialisation plan	Ongoing (M36)
D5.7	Policy framework analysis	Ongoing (M36)