



# WP3 Consortium Members:

An overview of key  
contributions and roles

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## ROLE IN WP3

### ZLC will lead:

- WP3 PLANET Living Labs. ZLC coordinates the WP devoted to PLANET Living Labs, designed to provide both an experimentation/innovation environment and testbed for EGTN solutions along three global corridors.
- T3.4 Generic Use Case and EGTN Impact Assessment.
- Deliverables D3.7 (v1) and D3.8 (final version) EGTN Generic use case.

ZLC's main contribution by now is the deliverable D3.7.

## OTHER ROLES

### ZLC will also lead:

- T4.4 PI-facilitating technology Roadmaps (blockchain, ML, Hyperloop, AVs iMLUs, 5G, EGNOS, 3DP).
- ST4.3.1 Learning material requirements, ST4.4.1 Consolidation of results from previous road mapping initiatives, ST4.4.2 Impact documentation of technological areas on the PI will document impact of each identified technology area to the future of the PI, and ST4.4.5 Workshops definition, execution and follow up.
- Deliverable D4.4 PI-facilitating technology Roadmaps for EGTN.

## KEY CONTRIBUTIONS TO PLANET

- ZLC has a wide experience in the participation in European projects related to SCM, logistics and urban freight, being ranked as the Spanish entity with most EU funded projects in the field.
- It is a founding member of ALICE ETP and has a strong network of contacts and collaborators involving relevant European and international contacts in the logistics and transport sector.

# ZARAGOZA LOGISTICS CENTER



Zaragoza Logistics Center (ZLC) is a research and educational institute affiliated to the Massachusetts Institute of Technology (MIT) and the University of Zaragoza. Specialized in logistics and supply chain management, ZLC is the Spanish centre of the MIT Global SCALE Network, an international alliance of 6 leading research centres dedicated to the development of supply chain excellence through innovation.

## ROLE IN WP3

**COSCO SHIPPING LINES SPAIN leads and participates** in Living Lab 1: PI and Blockchain for optimised door-to-door Asia-Europe corridors - Mediterranean Corridor. To that end, it also leads:

- T3.1 LL1: PI and Blockchain for optimised door-to-door Asia-EU corridors.
- Deliverable D3.1 LL1 Specification and Baseline measurements.

Specifically, COSCO SHIPPING LINES SPAIN will:

1. Set up the LL and manage hinterland side data and operations.
2. Evaluate the current situation of barriers and bottlenecks and how the introduction of the blockchain technology could improve processes.
3. Evaluate how big data analytics and ML can contribute to intelligent decisions based on a PI approach.
4. Cooperate with COSCO SHIPPING Technology and JD for development and deployment of EGTN Infrastructure components.
5. Evaluate benefits of the new technologies and logistics concepts for end-to-end monitoring of goods and in supporting customer experiences by bringing trust, transparency and collaboration.

## KEY CONTRIBUTIONS TO PLANET

- COSCO Spain is LSP provider specialising in end to end supply chain optimisation with commitment to research and innovation particularly for hinterland multimodal operations.
- COSCO SHIPPING Lines (Spain) S.A. will use PLANET results in order to optimise end-to-end supply chain service by fostering digital integration, monitoring transactions and real-time data exchange among actors in a win-win strategy.
- Successful integration of LL1 outputs into Port of Valencia infrastructure will create an excellent platform for Cosco Spain to replicate to its business linkages with over 1,000 other ports worldwide.

# COSCO SHIPPING LINES



**COSCO SHIPPING LINES SPAIN S.A.** was established in 2016 to represent in Spain, Portugal and Mauritania to COSCO SHIPPING Lines Co., headquartered in Shanghai, who is an enterprise specially engaged in international and domestic container shipping and related services. Its predecessor is the former COSCO Container Lines Co., established on Nov. 11, 1997. According to the middle and long-term development plan, COSCO SHIPPING Lines will promote the 'Ocean & Plus' strategy to enhance the ocean service quality continuously in 2019.

## ROLE IN WP3

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.

## OTHER ROLES

PAN will also lead:

- Deliverables D1.4 (v1) and D1.5 (final version) Simulation based impact of new trade routes on the TENT- T and disadvantaged regions.
- T4.1 Recommendations for TENT-T interfacing to Global Trade Routes.
- Subtasks ST4.1.1, ST4.1.4 and ST.4.2.
- T1.2 TEN-T focused modelling and simulation so as its subtasks ST1.2.1 and ST1.2.2.
- Subtasks S1.1.4 Model extensions and customization implementation, and ST1.5.1 Defining the EGTN vision for 2030.

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

## 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 WP3

**ILIM leads and participates** in Living Lab 3: IoT for Silk Road Route – reliable, transparent and fully connected corridor from China to the EU. To that end, it also leads:

- T3.3 LL3: IoT for Silk Road Route to EU the Poland focus e-commerce parcels. LL3 is focused on streamlining logistic processes in flows from China to Europe along the Silk Road Route by implementation of IoT technologies and EPCIS platform as well as GS1 standards that facilitate transmission of data between the partners involved in the logistics operations.
- Subtasks ST3.3.1 LL AS-IS analysis and detailed specification and plan, ST3.3.2 Installation and technical validation of the PLANET Cloud-based Open EGTN Infrastructure in the LLs, ST3.3.3 Testing, and ST3.3.4 Analysis and results.
- Deliverable D3.5 LL3 Specification and baseline measurements.

## OTHER ROLES

**ILIM will also lead:**

- T4.5 Recommendations for PLANET standardisation.
- Deliverable D4.5 Recommendations for PLANET standardisation.
- Deliverable D6.2 Project Quality Handbook and annual quality reviews.

**ILIM's main contribution by now** are the deliverables D6.2a and D6.2b.

## KEY CONTRIBUTIONS TO PLANET

- IoT solutions based on use of wireless sensor networks (DASH7 – LPWSN) that enables monitoring of transport parameters in real time.
- EPCIS (event database and GS1 standard) enables business partners to share information about the physical movement and status of products as they travel throughout the supply chain.
- Methodology for business processes optimization based on BPMN 2.0 standard enabling analysing of activities performed and resources used towards its improvement.

# ILIM



**LUKASIEWICZ** - Institute of Logistics and Warehousing is widely acknowledged as a centre of competence in logistics and digitalization. We are an R&D unit where logistics is perceived as both a subject of research as well as the field of practical application. The Institute's main areas of competence embrace logistics and supply chain management including optimisation and designing of logistics processes, logistics networks, hubs, smart city and e-commerce logistics. Moreover, we develop solutions in the field of Internet of Things digitalising supply chains and introducing identification technologies RFID/barcodes.



# Other WP3 Participants

# Other Participants of LL1



**FV participates** in the ST3.1.4 Analysis and Results.

This subtask involves the detailed analysis of each of the tests developed in the previous ST Testing, calculating the KPIs previously defined and assessing the impact of the real implementation of the solution and/or technology that has been tested. Analysis will be also carried to impact user surveys. This subtask will consolidate a report with all the results, conclusions and recommendations.



**Inlecom participates** in the ST3.1.2 Installation and technical validation of the PLANET Cloud-based Open EGTN Infrastructure in the LLs.

Whitin this subtask will be installed and validated the necessary components for container-based infrastructure deployment in the cloud, to enable concurrency in usecase execution, to quickly match specific LL configurations and to easily deploy the EGTN Infrastructure in the LLs.

## Additional partners highly involved in LL1



# Other Participants of LL2



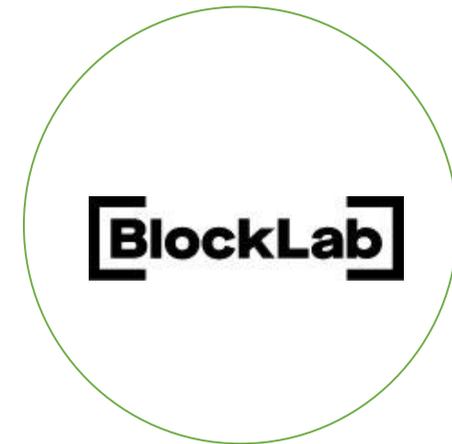
**EUR participates** in the ST3.2.3  
Synchromodality on Blockchain platform.

Within this subtask, will be investigated the application of synchromodality supported by Blockchain and advanced IoT. The real-time Synchromodal planning will be supported by dynamic optimization tools that will make use of machine learning.



**NEWO participates** in the ST3.2.4 Synergies  
TEN-T and intercontinental rail flows.

This subtask assesses the contribution of intercontinental rail freight flows to the Traffic Attraction Zone model in the EGTN approach with identification of key nodes and their accessibility. ST3.2.4 will also identify opportunities to integrate intercontinental flows into intra-European ones focusing on rail and water modes as the greenest for the EGTN approach, by seamless processes enabled by info and planning sharing.



**BlockLab participates** in the ST3.2.5  
Blockchain solution for New Silk Road.

In order to reach Synchromodality over the various geographic areas and supply chain actors, a system is needed that supports coordination within the supply chain, without the need of a dominant member. Blocklab will develop a Blockchain enabled transport & logistics solution based on these principles. This solution will be implemented in a test setting on the rail freight corridor between the EU and China.

## Additional partners highly involved in LL2



# Other Participants of LL3



# Other Participants of T3.4 Generic Use Case and EGTN Impact Assessment



**FV participates** in the ST3.4.2 Application of EGTN generic Use Case in port of Sines and transferability guide.

This subtask will deliver a design of a 'Global Trade Zone' at the port of SINES utilising the generic use case and Cloud-based Open EGTN ICT Infrastructure to demonstrate the broader applicability of the approach. It will then use the experience gained to produce a transferability guide.



**CERTH participates** in the ST3.4.3 EGTN impact assessment: An overall EGTN impact assessment.

An overall EGTN impact assessment will be developed considering Living Labs technical/operational, financial & business and economic & social perspectives. KPI targets defined in section '2.1 Expected Impacts' will be used as a yardstick for the assessment of the Living Labs' impacts.

## Additional partners highly involved in T3.4





# WP3 Deliverables submitted

# D3.7 EGTN Generic Use Case v.1

This deliverable sets up and specifies the parameters of an EGTN Generic Use Case. It brings together elements from the three PLANET Living Labs under a common EGTN framework and employs the analysis of the effects of the new trade routes in the TEN-T network carried out in T1.2.

The EGTN Generic Use Case is used in PLANET to produce a Digital clone aiming at investigating through simulation the impacts of introducing the EGTN infrastructure and the new logistics concepts and technologies along complete TEN-T corridors. The initial approach towards it is also presented in this document.

This report, as other deliverables produced in WP3, aims to facilitate the EGTN adoption by EU T&L actors and communities. It incorporates contributions from all relevant project partners. Main aim is to demonstrate how EGTN generic models and services based on the outputs of the three LLs can be applied by T&L communities. Specifically, the framework here developed will be later applied in port of Sines Use Case (D3.9).

The methodology to identify additional use cases during the project and their Value Network Analysis is also presented in this document. This strategic analysis allows to identify the changes required to enable the transition towards the EGTN adoption by T&L communities.

A second release of this report will be done at M34: D3.8-EGTN, Generic Use Case final version. This final release will include the simulation of the selected TEN-T corridors covering financial, business, economic and social impacts.