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DigLogs newsletter n. 12 - February 2021

"The project is progressing steadily, and the project partners are in different stages of pilot implementation, due to some difficulties caused by COVID-19 and because of the particularities of each pilot. To align the pilot implementation, the Partnership will hold a meeting in June 2021, two weeks before most pilot implementations are completed, allowing the Partnership to react in time in case of irregularities or problems. Ultimately, a document with all project results, which will be sharable and easy to understand by all players of the sector, will be created. The next steps that should be taken to support the digitalization processes in the Programme area after the closure of the project will be defined."

University of Rijeka - Faculty of Maritime Studies - Lead partner of the DigLogs project

Stakeholder outreach in the Italy-Croatia Area!

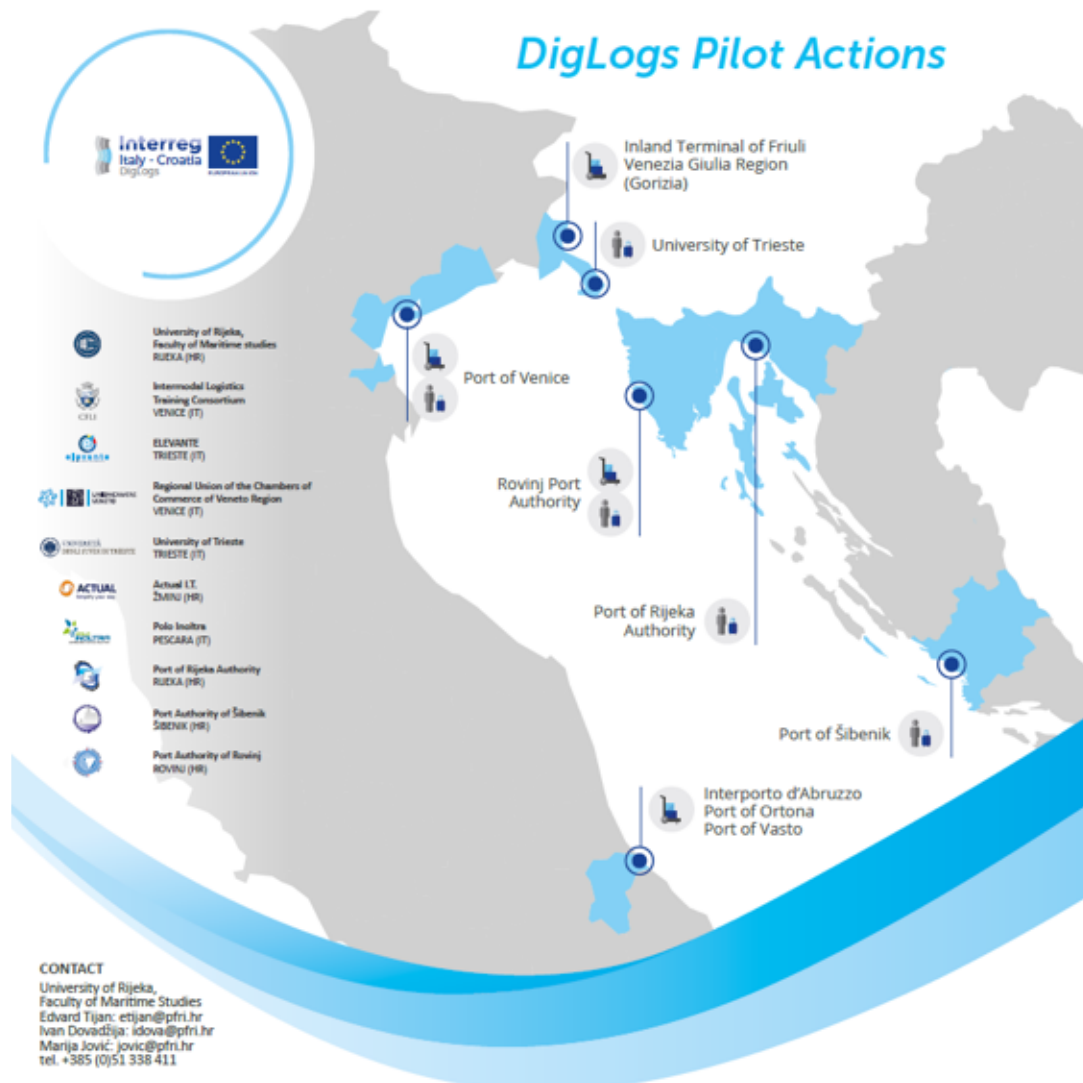
The DigLogs (European project funded by the INTERREG Italy – Croatia CBC Programme priority

axis 4 - Maritime transport) partners are again reaching out to different stakeholders across the region to obtain input and insight on the road map for implementing pilot projects, which incorporate different primary innovations regarding the informatization processes, big data and automation systems for Croatia and Italy Area. Diglogs is using an innovative platform for displaying the individual pilot area propositions, including links for collecting stakeholder input via questionnaires. The system also allows stakeholders to preview the other pilot areas and their characteristics. We hope that this user-friendly version of presenting the information on the pilots will allow for many stakeholders to understand and eventually provide their timely insight into our final roadmaps, to be produced during the second half of 2021.

Diglogs Pilot Action overview:

[Are you interested in learning about all of the pilots within Diglogs?](#)

Please download the multimedia project portrait, with an overview of all the [Diglogs pilots](#)



Diglogs Series on Proposed Pilot Innovations:

5th Pilot – Innovative solution for Deliveries Planning System in the Middle Adriatic Area

The pilot system aims to provide the foundation for automating the multimodal cargo transport selection and reservation process.

The Delivery Planning System will limit problems by guiding the operator throughout the decision-making process of the multimodal service routing, providing the user with:

- various alternatives for intermodal services;
- ability to chose the most suitable option, according to preferred KPIs, leading to the prospective booking in advance of the service needed through an automated system;
- the basis for simplifying the procedures for Custom Declarations and Dangerous Goods processing;
- foundation for real-time monitoring during the shipment.

Improving Multimodal Service Routing

This innovation starkly contrasts with the current procedures where multimodal service routing is mainly done by hand by operators from small to medium sized firms, resulting in significant obstacles for multimodal planning. This pilot is going to explore the algorithms to make the entire routing process automatic, including any eventual re-routing, and includes the direct management of service reporting (with comparison functions of "Planned vs Actual" services).

Pilot Scenario

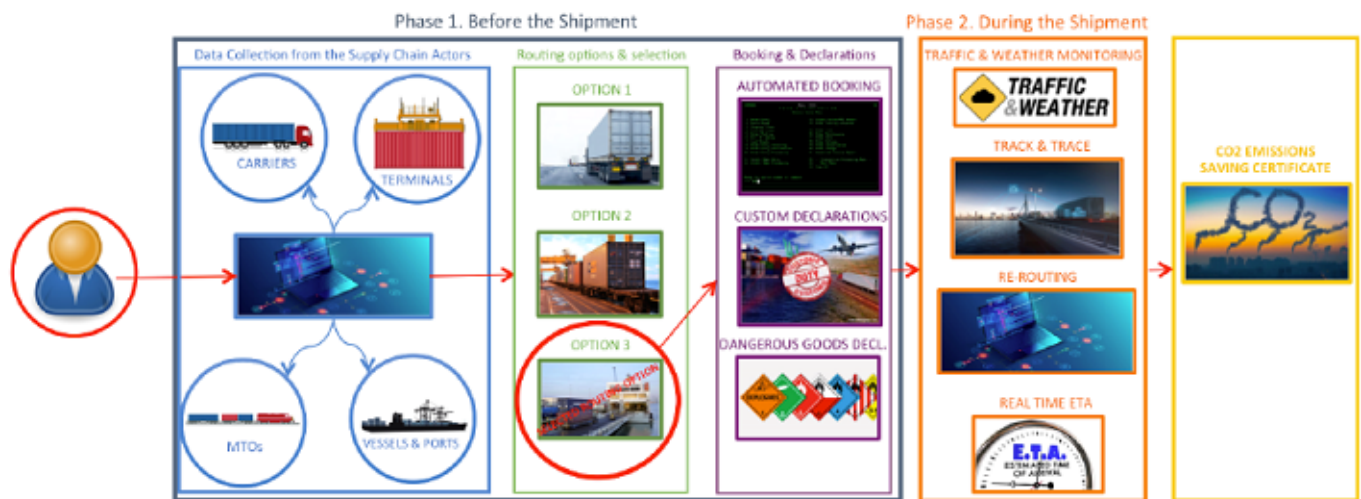
The pilot provides improved knowledge for operators in the shipment routing decision making process through the comparison of multimodal services in terms of:

- Price;
- Transit times and schedules;
- Matching Intermodal Transport Unit (ITU) requirements and compatibility with the vessel;
- The simplicity of procedures (eg. Customs Declarations and DG procedures);
- Shipment requirements with Dangerous Goods limitations; as well as
- Re-routing options based on traffic & weather conditions.

In addition to supporting the booking process, the pilot is going to simulate the monitoring of the shipment with a track&trace system, with near real-time updated Estimated Times of Arrival (ETA), based upon traffic and weather monitoring and eventual rerouting, as well as CO2 emissions certificates at the completion of the shipment.

The pilot phase includes a combination of real data and simulated data from the stakeholders. In the mid to long term, it is forecasted for the pilot action to expand the geographical area of implementation at least to the mid-Adriatic ports and include:

- Modes: road, rail and sea transport routes.
- Ports: 6 to 10 ports and 3 to 5 freight villages/terminals
- Shipping companies & carriers: 15 to 20
- MTOs: 3 to 5.



Ideal Implementation Scenario

The ideal, full size implementation scenario would extend system development to at least 12 more months, following Transferability and Action plans, plus another 12 months for the placement on the market. This would involve the following actors:

- Transport Operators
- MTO Multimodal Transport Operators
- Shipping Companies
- Shippers
- Freight Terminals
- Port Authorities

The benefits from the innovation are envisaged to begin within 24 months. Initial benefits are expected to be reaped during the System Development phase with the increase in cooperation between the actors and the integration of the systems. The largest benefits are expected to come after the 24 months with the placement of the innovation on the market.

This is the 12th edition of Newsletter series of the DigLogs project!

DigLogs is a European project funded by the INTERREG Italy – Croatia CBC Programme priority axis 4 - Maritime transport that aims to create technological solutions, models and plans to establish the most advanced digitalized logistic processes for multimodal freight transport and passengers' services in the Italy-Croatia area. This project will have a significant impact in terms of diffusion and

effectiveness of digitalized services and ICT support for the quality, safety and environmental sustainability. In the E-newsletter you will find interesting information on the latest developments and upcoming events of the project.

Stay Tuned for our Next DigLogs newsletter in April 2021!

Any questions, please write to University of Rijeka, Faculty of Maritime Studies (lead partner):
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