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DigLogs newsletter n. 11 - December 2020

"We are currently at a stage in which each pilot owner drafts the pilot work plan in detail. Despite small delays due to COVID-19, we are still managing to execute project tasks. A stage in which a White Paper should be created is coming soon, and it will be based on the project Deployment roadmaps. The White Paper aims to strengthen the impact of the project on external stakeholders and target groups of the private and public sectors. The White Paper will define how a future implementation would look like, what are the

critical issues that will determine whether the pilots will evolve after the project, etc."

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 and 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, launched during the summer of 2020 and extending into the Spring 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
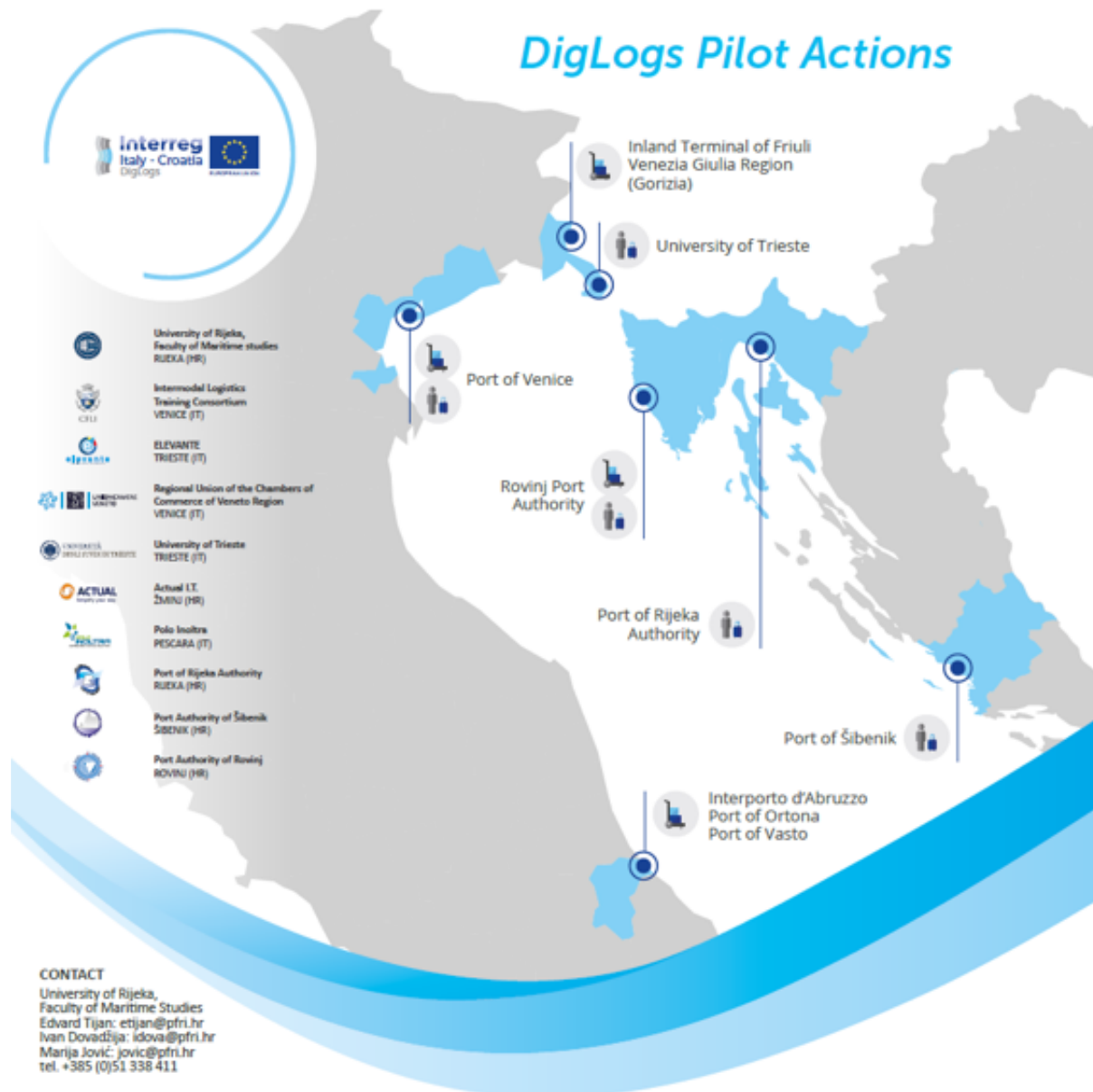
Diglogs Series on Proposed Pilot Innovations:

Fourth Pilot – Innovative solution for access control in Port of Sibenik Croatia

This pilot focuses on testing an innovative automated solution for passenger flow control (especially aimed towards passengers disembarking from the cruiser ships) which digitalises the processing of, while maintaining compatibility with the national PCS system, slated for introduction by the end of 2021.

Introduction of an innovative automated digital system for permits which handles the full process data submission through payment processing will significantly enhances the reliability, security and speed with which permits can

be issued and managed.

Status of permits can be checked from any physical place using tools embedded in the system. In order to make the system automatic, every access permit will have a unique identification code (for example, QR code) that will be embedded and enable cross-checking with other data from the permit.

See a sample of the Digital ID below:

Full digitalization would ensure traceability and follow up for every request for permits, as well as ensure alignment with ISPS, other port security rules and compliance with current access control regulations.

Digitalization will also enable additional functions for better traffic management, tracing of port resources and increase of the general security level. End users will gain higher service levels and lowered levels of stress, as they will be able to perform all these actions in advance and remotely.

Increasing the Speed and Security of Access Control to Passenger Terminals

The pilot fosters important improvements:

- Introduction of an **innovative solution** with all applicable features and integrations for **data submission and permits issuing and processing**
- **Granular access and control** over identified passenger target group stakeholders up to the level of **statistical data processing**
- **Open data** can be further endorsed by providing it to private and public stakeholders for real-time insight into the acquired data

- **New commercial initiatives** and possibilities arising from the innovative access control system that can be exploited using existing marketing and commercial channels

Pilot Scenario

The scope of the pilot is to requisition and purchasing of the envisaged equipment, its installation and functional integration, development of the web and mobile applications aimed towards administration, passengers and the police, and implementation of analytic capabilities for the system. It includes also:

- Web application,
- PC and mobile application,
- Police and security application,
- End user education and training.

Ideal Implementation Scenario

In order to increase the success of the pilot, some preparations to the environment are recommended:

1. Minimal Changes to current Regulation: Some minor changes including the incorporation of the description of the ID cards (colour and composition), and recognition of virtual ID cards (especially applicable for "daily" category of usage) that are represented by a valid and properly processed database entry.
2. Technology: Affirmative experience gained with implementation of QR codes for entry and exit from container terminals forms a positive guideline also for virtual ID cards – permits for physical person ingress-egress control. QR codes will be created in a way to contain useful information like location, first and last name and vehicle's license plate. IT system will be robust and follow all modern ICT and cybersecurity requirements. Solution will be in line with GDPR and ensure alignment with national Cybersecurity regulation.
3. Payment possibilities and end-user (stakeholder) satisfaction:

Considering that ID card and permit issuance carries payments for certain categories of private and legal persons and vehicles, integration with payment gateways supporting various means of payment (subscription, credit cards, PayPal, prepaid) would also be highly advisable and trivial for integration, and it would results in high levels of satisfaction for identified stakeholders (end-users).

4. Integration: entry and exit gate procedures should be prepared for integration with the future PCS system, in order to use input data. Furthermore, a dedicated module for maritime police will be additional integrated part of the overall system, simplifying passenger check process.

The pilot is relevant to:

- Local and regional national public Authorities
- Enterprises, transport and multimodal transport operators (MTO)
- Shippers
- Passenger and freight terminals
- Shipping companies
- Sector associations

This is the 11th 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 project, you will find interesting information on the latest developments and upcoming events of the project.

Stay Tuned for our Next DigLogs newsletter in February 2021!

Any questions, please write to University of Rijeka, Faculty of Maritime Studies (lead partner): dekanat@pfri.hr