

# DigLogs

## WP5 Pilot implementation

### Progress Report #1

#### 5.1.1. PCS Automation - Deliveries Planning

<b>Responsible partner: Polo Inoltra</b>			
<b>Involved partners: All</b>			
Version	Status	Date	Author
0.1	FINAL	02.03.2021	Polo Inoltra
<b>Notes:</b>			

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## 1. Reporting period

<b>Reporting period</b>	01.01.2021 - 30.06.2021
<b>Date of the report</b>	02.03.2021

## 2. Pilot action progress status

### 2.1 Pilot Implementation schedule

The pilot action implementation follows the previously defined roadmap, as described below.

Please note that the roadmap tasks are not strictly sequential, as many of them are going to be carried out jointly with other activities.

*(completed task reported in bold)*

#### P1. Pilot Planning & Control

- a) **Pilot Concept Drafting**
- b) **Pilot Functional Design**
- c) **Pilot Work Plan**

**CHECK OFF MILESTONE 1 - PLANNING (FEB 2021): COMPLETED**

#### P2. Technical Development

- a) **Technical Functional Specification - draft**
- b) **Input Process**
- c) **Output Process**
- d) **Backend Solution**

- e) Track&Trace, Traffic&Weather and RT Modules
- f) Re-routing Parameters checklist
- g) Frontend Solution

**CHECK OFF MILESTONE 2 - TECH DEVELOPMENT (MAY 2021): ONGOING**

P3. Configuration & Internal Testing

Variables/Set of data checklist

Booking&Transport Orders Pilot Function Configuration

ITUs Pilot Function Configuration

Travel Sections&Nodes Pilot Function Configuration

Vessels, Ports and Terminals Pilot Function Configuration

Trains, Stations and Rail Terminals Pilot Function Configuration

Re-routing parameters Pilot Function Configuration

Technical Functional Specification – final

**CHECK OFF MILESTONE 3 - CONFIGURATION (JUL 2021)**

P4. Final (User) Testing

Actors mapping & Selection

Actors instructions

Deliveries Planning System User Testing

Pilot Application Delivered and Completed

Data/Results Analysis

Dissemination

CHECK OFF MILESTONE 4 - FINAL TESTING (OCT 2021)

## 2.2 Progress status

**P1**, related to the Pilot Planning & Control Activities has been completed, following a regular schedule:

- The Pilot Concept Drafting activity has been completed by Polo Inoltra by following the research workflow and considering the stakeholders expectations;
- The Pilot Functional Design has been completed with the help of Actual IT, defining the potential software capabilities in relation to the proposed functions;
- The Pilot Work Plan has taken into account the previous two points and it has allowed to define a pilot timescale for the implementation of the various activities.

P1 has respected the estimated deadlines, with the actual completion in Feb 2021.

In relation to **P2**, the Technical Development of the pilot action, starting from a draft Technical Functional Specification, it was possible to define the following pilot parts:

Input Process:

User-data input process has been defined per category, with data-sets based on the shipment and further choices in relation to the ITU. Once the routing process has been set, the system allows further inputs in relation to the re-routing of the shipment.

Output Process

The system output is related to the different multimodal options available for the user and after the routing selection process the system provides the user with the shipment monitoring and the eventual system calculations for re-routing.

Backend Solution

The backend solution allows the system administrator to monitor the status of the system, evaluate the options chosen by the user and to intervene in case of non-conformity.

#### Track&Trace, Traffic&Weather and RT Modules

In terms of Track&Trace, a checkpoint system based on test-user activation will be applied. The activity is currently undergoing. For Traffic&Weather a system-admin induced lab-based event system will be used during the pilot testing in order to simulate random event of a real-life implementation scenario. RT modules will be therefore lab-simulated, though the system will react to the unexpected circumstances by offering re-routing options or a new ETA for the shipment, depending on the consequences the unexpected event had on the planned routing.

#### Re-routing Parameters checklist

Re-routing activities will be based on the user decisions based on the lab-simulated track&trace (checkpoints) and traffic&weather (lab simulated by system-admin) situations. This activity has not started yet. The user will be informed about the shipment non-compliance and will be offered either facultative or compulsory re-routing options (being the compulsory options shown only in case of long-delays making the originally selected routing option unavailable for service prosecution).

#### Frontend Solution

The frontend solution will be related to the main system interface, guiding the user throughout the shipment management & reporting. It has been chosen a user-friendly interface, with clear indications for the routing in terms of transport modality and multivariable ranking options.

P2 has respected the estimated deadlines, with the actual completion in May 2021.

**P3** activities, related to Configuration & Internal Testing, have not started yet, they will begin as soon as P2 activities will have been completed.

**P4** activities, related to the Final User Testing, have not started yet, they will begin as soon as P3 activities will have been completed.

### 2.3 Milestones and actions

Milestone/action	Responsible partner/external resource	Deadline, as defined in PWP	Predicted or achieved completion date	Estimated completion %	Progress status
Milestone 1	Polo Inoltra	Feb 2021	Feb 2021	100%	COMPLETED
Milestone 2	Polo Inoltra	May 2021	May 2021	30%	ONGOING
Milestone 3	Polo Inoltra	Jul 2021	Jul 2021	0%	SCHEDULED
Milestone 4	Polo Inoltra	Oct 2021	Oct 2021	0%	SCHEDULED

### 3. Risks

Risk description	Solution suggestion	Status
No risks were encountered	n/a	Risks monitored

### 4. Next steps

The next planned steps will be the following:

- a) Complete the Track&Trace, Traffic&Weather and RT Modules
- b) Complete the Re-routing Parameters checklist
- c) Complete the Frontend Solution
- d) Evaluate the tasks at P2 and continue the tasks of P3