

# DigLogs

## Pilot implementation

### Final Progress Report #3

#### 5.1.2. WMS 4.0

<b>Responsible partner: PP2 - Elevante s.r.l</b>			
<b>Involved partners: n/a</b>			
<b>Version</b>	<b>Status</b>	<b>Date</b>	<b>Author</b>
1.0	Final	30.09.2021	Elevante s.r.l
<b>Notes:</b>			

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# 1 Reporting period

<b>Reporting period</b>	14.09.2021 – 02.12.2021
<b>Date of the report</b>	03.12.2021

# 2 Pilot action progress status

## 2.1 Pilot implementation schedule

Below the timeline of the action is illustrated with indication of the milestones achieved within the current reporting period, in accordance with the scheduling.

Activity number	Activity title	Year and month													
		2020						2021							
		8	9	10	11	12	1	2	3	4	5	6	7	8	9
1	Creation of the pilot work plan draft														
2	Creation of the pilot work plan							M1							
3	Creation of the technical-functional specification draft							M2							
4	Completed public procurement documentation														
5	Awarded equipment purchase and system integration contracts														
6	Development and system integration														
7	Fully integrated system UAT testing											M3 (initially planned)			M3 (new delivery date)
8	Full system deployment in production												M4 (initially planned)		M4 (new delivery date)

## 2.2 Progress status

All pilot activities have been carried out at the end of October 2021.

The actual timeline for the duration of the whole pilot project is shown in the table here up here, along with the most important milestones.

The procurement documentation was finalised during the previous reporting period and the document outlining the functional, technical and design requirements had been previously approved by the WPL.

The external supplier for the development of the pilot was identified and following multiple interactions and brainstorming meetings regarding implementation aspects, they have completed the Pilot implementation.

The functionalities (e.g., TAS) and system integration have been defined and our supplier has worked on the development of the pilot.

Equipment has been delivered and installed, the development of the services has been completed, UAT has been tested several times.

The Pilot has been completed with a fully functional system and has been presented to the stakeholders identified during the final regional event.

## 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
Completed project work plan draft (action #1)	PP2	8 <sup>th</sup> March 2021		100 %	100%
Creation of the pilot work plan (action #2 leading to M1)	PP2	19 <sup>th</sup> March 2021	End of March 2021	100 %	100%

Creation of the technical-functional specification draft (action #3)	PP2	31 <sup>st</sup> March 2021		100 %	100%
Creation of the technical-functional specification (action #4 leading to M2)	PP2	31 <sup>st</sup> March 2021	End of March 2021	100 %	100%
Completed procurement documentation and award (action #5)	PP2	End of April	End of April	100 %	100%
Development of preliminary functionalities (e.g., TAS) and system integration	PP2	End of July	End October	100 %	100%
Development of DSS	PP2	End of August	End October	100 %	100%
Fully integrated DSS testing	PP2	End of August	End October	100 %	100%
Full system deployment	PP2	End of September	End october	100 %	100%

No.	Activity	Maturity	Responsible stakeholder	Key Performance Indicator	Expected value	Achieved value
1.	<b>Completed project work plan</b>	COMPLETED	Project Partner	Accepted pilot work plan by all PPs	1	1
2.	<b>Written draft of the technical-functional specification</b>	COMPLETED	Project Partner	Written full technical-functional specification	1	1
3.	<b>Public procurement</b>	COMPLETED	Project Partner	Issued request(s) for quotation(s) /	100%	100%

	(tendering) documentation			Total number of request(s) for quotation(s) needed		
4.	Received commercial offers	COMPLETED	External consultant	Received commercial offer(s) / Total number of offer(s) to be received	100%	100%
5.	Evaluation of offers completed and best offers selected	COMPLETED	Project Partner	Best offer(s) selected	1	1
6.	Awarded equipment purchase contracts (if applicable)	Not expected	External consultant or Project Partner, Vendor	Awarded purchase equipment contracts	n.a.	n.a.
7.	Awarded integration and/or development services contracts	COMPLETED	Project Partner	Awarded integration and/or development services contracts	1	1
8.	Equipment delivered and installed (if applicable)	COMPLETED	External consultant	All equipment installed	1	1
9.	Integration and/or development services delivered and completed (if applicable)	COMPLETED	External consultant	All integration and/or development services completed	1	1

	applicable)					
10.	UAT testing	COMPLETED	External consultant	Number of successful tests / Total number of required tests	100%	100%
11.	Full system functional (pilot development completed)	COMPLETED	External consultant	One complete pilot project successful	100%	100%
12.	Number of ICT systems upgraded, enhanced or introduced as a consequence of project execution	COMPLETED	Project Partner	At least one ICT system upgraded, enhanced or introduced as a consequence of pilot execution	100%	100%
13.	Amount of funds justifiably spent by the PP for pilot action / Total funds allocated for pilot action	COMPLETED	Project Partner	Percentage of available funds from the budget (Application Form) – only HW, SW and integration	100%	100%
14.	Number of secondary affected ICT systems as a consequence of the pilot execution	COMPLETED	Project Partner	At least one secondary ICT system affected as a consequence of the pilot execution	100%	100%
15.	Number of improved internal processes as a consequence of the pilot execution	COMPLETED	Project Partner	At least one internal process directly benefitting from the pilot execution	100%	100%

16.	<b>Number of affected port terminals, basins, land terminals, vessels or other locations as a consequence of the pilot execution</b>	COMPLETED	Project Partner	At least one port terminal, basin, land terminal, vessel or other location positively affected as a consequence of the pilot execution	100%	100%
17.	<b>Increased level of security of port terminal, basin, land terminal, vessel or other location as a direct result of pilot execution</b>	COMPLETED	Project Partner	Is the security of port terminal, basin, land terminal, vessel or other location increased as a result of pilot execution?	YES	YES
18.	<b>Increased level of cyber security of involved logistics and transport ICT systems as a direct result of pilot execution</b>	COMPLETED	Project Partner	Is the level of cyber security of involved logistics and transport ICT systems increased as a result of pilot execution?	YES	YES
19.	<b>Directly or indirectly lowered GHG emissions as a direct result of pilot execution</b>	COMPLETED	Project Partner	Are GHG emissions directly or indirectly lowered as a result of pilot execution?	YES	YES
20.	<b>Timely submitted pilot action completion/close out reports</b>	COMPLETED	Project Partner	Timely reporting on pilot action completion/closeout	YES	YES



### 3 Risks

The implementation of the workplan did not generate any risk during the reported period and all foreseen activities have been executed with 1 month of delay as originally communicated to the WPL.

### 4 Next steps

The DSS and its testing at the Gorizia inland terminal has been carried out on the 25<sup>th</sup> of November and pilot is in the post implementation follow up.

PP2 presented the project at the final event on the 1st Dec 2021, and performs closing project duties related to inputs for the project transferability and action plans.

One of the main objectives of the DSS is to implement in the future a **Truck Appointment System** (TAS), which will enable a communication exchange between the inland terminal and truck operators, and to support the terminal manager in the optimum scheduling of operations.