OUTPUT FACT SHEET

Pilot actions (including investment, if applicable)

Project index number and acronym	CE1455 COMODALCE
Output number and title	O.T2.1 - Pilot actions fostering coordination among multimodal freight transport stakeholders through ICT systems
Investment number and title (if applicable)	Only relevant for Luka Koper
Responsible partner (PP name and number)	Adria kombi 06
Project website	interreg-central.eu/comodalce
Delivery date	2.6.2022

Summary description of the pilot action (including investment, if applicable) explaining its experimental nature, demonstration character and transnational added value

Adria kombi is providing the data of the containers:
- KM2 System: transfers data to Port Koper before arrival of an intermodal train to a terminal, providing all relevant data, including the vessel name and cut off time.
- TS2 System transfers loading plans to Port Koper IT system
- OCR system: returns the data back to KM2 system, when the train is moved through the OCR gate.

The benefits for all are numerous:
- Better transparency
- Fair terminal services
- Avoidance of errors on trains
- Check in and check out system in place 24/7
- Possibility to implement auxiliary services, such as checking the DG labels on containers, damages on wagons, containers

We have been developing the data exchange with Port Koper in synchronization with the development of Port IT System and actual construction of the OCR gate.

The experimental character of the pilot action will show the action going on the gate of the container terminal. Several parameters can be observed.

NUTS region(s) concerned by the pilot action (relevant NUTS level)

The regions concerned are all regions that gravitate to Port Koper.

Investment costs (EUR), if applicable

Only relevant for Luka Koper

Expected impact and benefits of the pilot action for the concerned territory and target groups and leverage of additional funds (if applicable)

The vision of the project related topics coexists with the Adria kombi vision to digitalize all processes. The only segment that has been missing is terminal operations on the trains. Adria kombi covers train, truck tracking&tracing and Transport Order Management online and completely digitalized.

- Time savings as the checking of the train is a time consuming process
- Better accuracy and record keeping
- Significant cost savings on the long run

Concerning leverage of additional funds, Adria kombi expects time savings on the train safety and technical checking procedure which has to be done upon arrival and before departure of every train in Container Terminal Railsiding.

Sustainability of the pilot action results and transferability to other territories and stakeholders

The mission is to include the important segment, where the Intermodal Transport Unit is changing the mode of transport. This happens within the terminal. It has been a black box for Adria kombi so far. After the successful pilot, with OCR in place, Adria kombi will be able to monitor the 'missing' link. This solution will be applicable in any container terminal in EU or wider.

This solution is intended to be upgraded to monitor labels and markings for dangerous goods

If applicable, contribution to/ compliance with:
- relevant regulatory requirements
- sustainable development – environmental effects. In case of risk of negative effects, mitigation measures introduced
- horizontal principles such as equal opportunities and non-descrimination

Adria kombi is set to digitalize the entire operation and administration. Paperless operation. Better communication with its clients and reduction of costs.

The regulatory requirements are complied with. There is an open access for the solution, so different stakeholders will benefit from it. It is applicable anywhere, where they have checking of the intermodal trains inside the container terminal.

References to relevant deliverables (e.g. pilot action report, studies), investment factsheet and web-links
If applicable, additional documentation, pictures or images to be provided as annex

The output is based on the deliverable D.T2.2.8 "Pilot action final report – Adria Kombi" and it is related as well to D.T2.2.15 "Pilot action evaluation report".

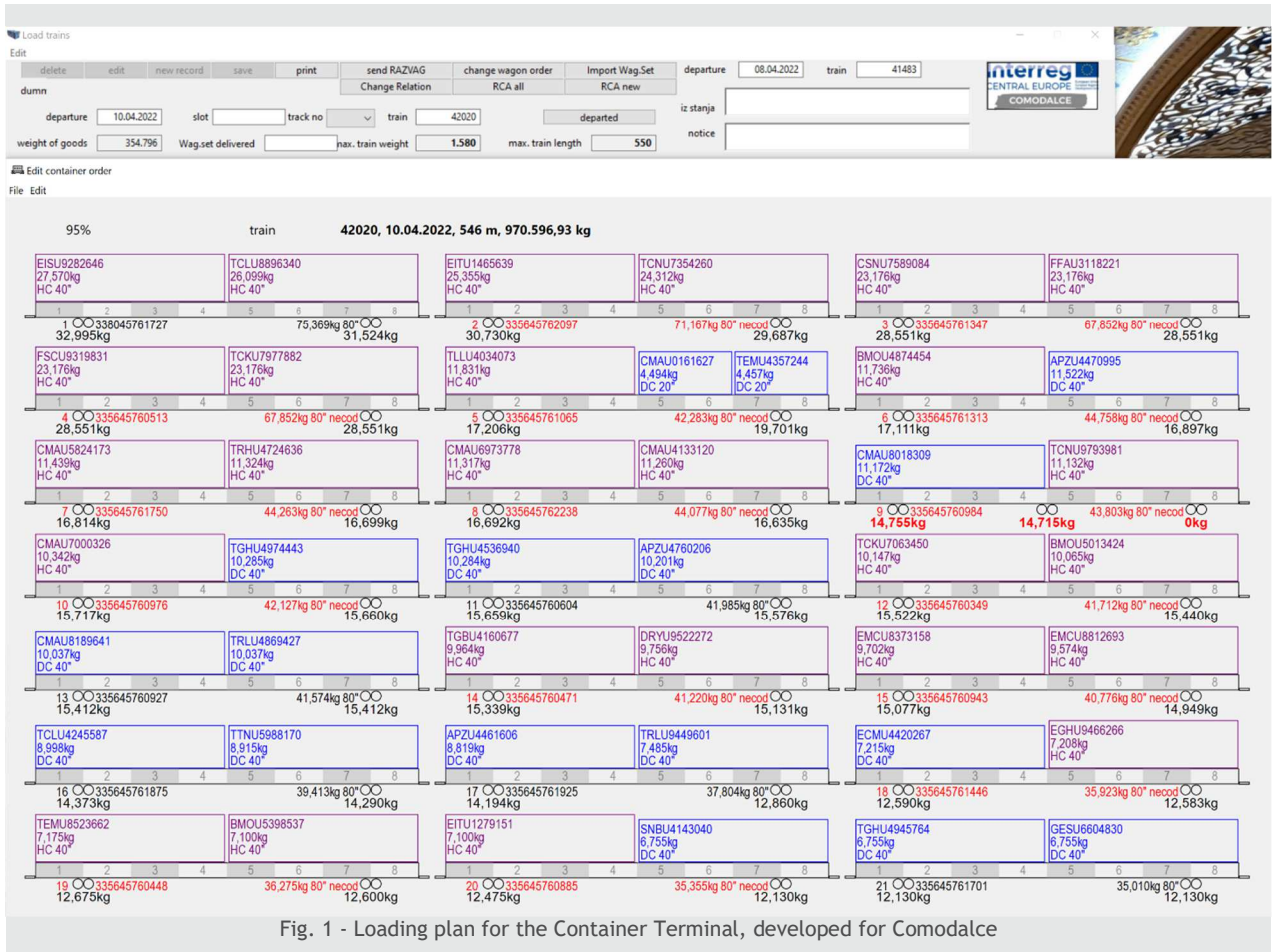Fig. 1 - Loading plan for the Container Terminal, developed for Comodalce
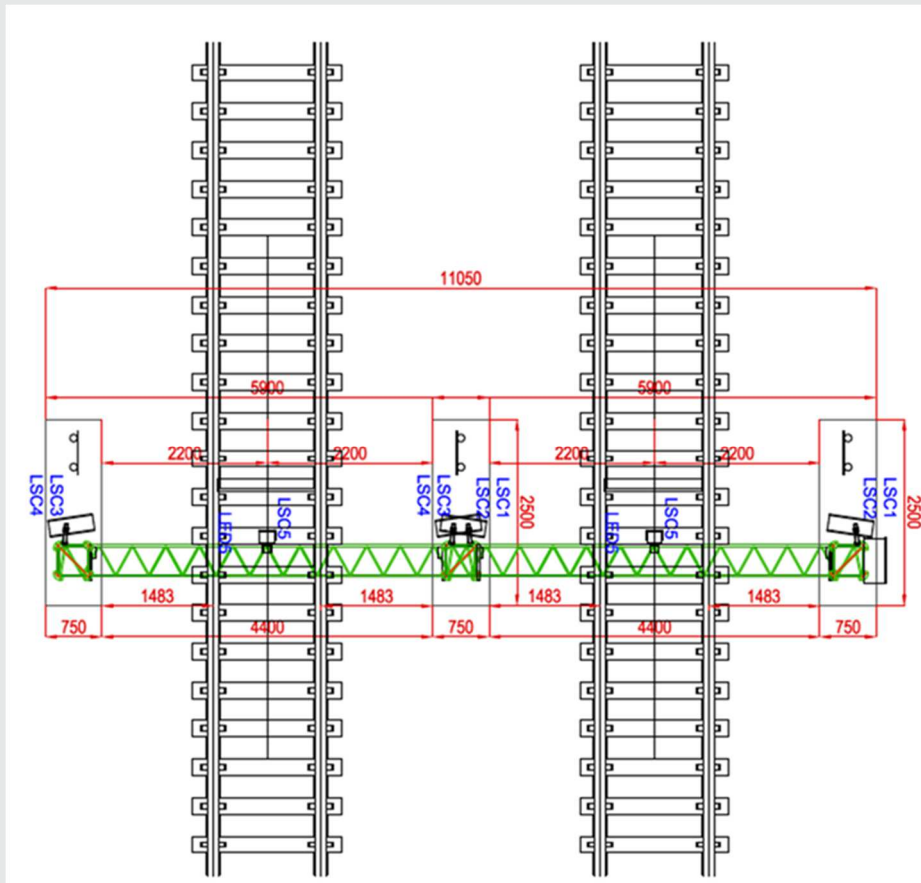
Fig. 2 - The OCR gate LOCATION
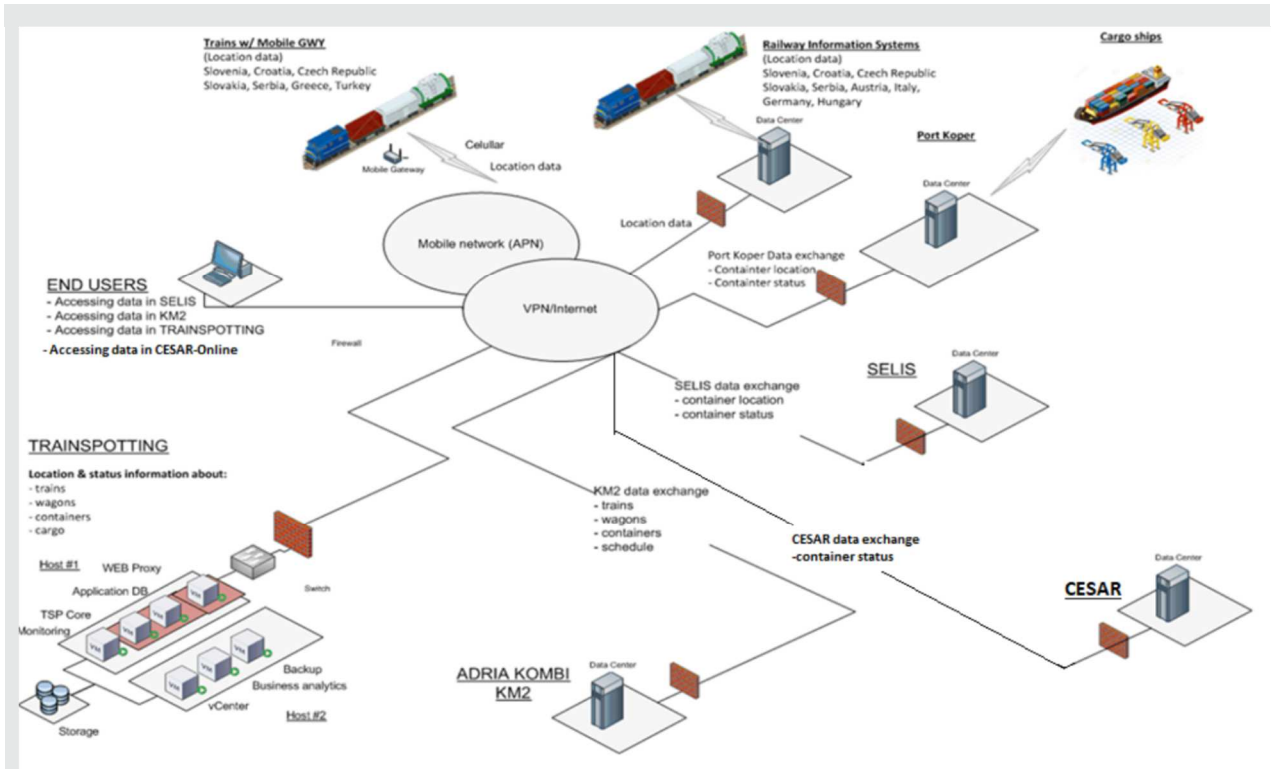
Fig. 3 - OCR gate sketch

Fig. 4 - Interconnection of Adria kombi's IT System to all stakeholders

Dostava na tir	Naloga	Vlak	Vagoni	Kontejnerji	Odhod	Prihod	Cutoff
20.04.2022 07:00							
	Naklad	50001 KPCEM80BB		40 (40F: 10 40E: 10 20F: 10 20E: 10)	20.04.2022 14:41	20.04.2022 22:47	
	Razklad	50000		40 (40F: 10 40E: 10 20F: 10 20E: 10)	19.04.2022 19:03	20.04.2022 03:11	20.04.2022 09:0
20.04.2022 09:00							
	Naklad	50003 KPCE057		40 (40F: 10 40E: 10 20F: 10 20E: 10)	21.04.2022 00:50	21.04.2022 05:44	
	Razklad	50002		40 (40F: 10 40E: 10 20F: 10 20E: 10)	19.04.2022 20:20	20.04.2022 01:42	20.04.2022 12:0
20.04.2022 15:00							
	Naklad	50353 KPLI057		40 (40F: 10 40E: 10 20F: 10 20E: 10)	21.04.2022 03:25	21.04.2022 07:54	
	Razklad	50352		40 (40F: 10 40E: 10 20F: 10 20E: 10)	19.04.2022 04:38	19.04.2022 08:45	20.04.2022 17:0
20.04.2022 18:00							
	Naklad	43600 KMS034	337949600064	42 (40F: 38 40E: 0 20F: 4 20E: 0)	21.04.2022 04:37	22.04.2022 05:00	
	Razklad	43601 Z015	337949600866	42 (40F: 10 40E: 28 20F: 0 20E: 4)	17.04.2022 22:17	18.04.2022 16:48	
20.04.2022 20:00							
	Naklad	43634 PUBLIC04		50 (40F: 30 40E: 0 20F: 20 20E: 0)	21.04.2022 06:12	22.04.2022 00:43	
	Razklad	43633 BA020		50 (40F: 15 40E: 15 20F: 10 20E: 10)	20.04.2022 02:47	20.04.2022 19:17	
20.04.2022 22:00							
	Naklad	42020 W075	26 R/S	52 (40F: 26 40E: 0 20F: 26 20E: 0)	21.04.2022 07:57	22.04.2022 10:26	
20.04.2022 23:59							
	Naklad	42024 W076-Triangle	26 R/S	(40F: 40E: 20F: 20E:)	21.04.2022 13:58	22.04.2022 09:11	

Fig. 5 - Daily plan of trains in Port Container Terminal