



# EUSAIR TSG2

16th meeting of the sub-group of transport 18 March 2022

## Capitalization of the Interreg ADRION projects - ADRIPASS and ADRIPASS PLUS-



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**ADRIPASS - Integrating multimodal connections in the Adriatic-Ionian region** aimed at improving maritime-hinterland freight connections to boost growth and economic development of the transport sector in the ADRION region.



Identification of soft measures to streamline and enhance the connections on the TEN-T Network (extended to the Western Balkans), where most Border Crossing Points (BCPs) are located. It also tested specific ICT solutions for streamlining freight transport in ADRION ports, setting standards, which could be used within Electronic Data Interchange interfaces at BCPs.

Duration: Jan. 2018 - Dec. 2020

**ADRIPASS** project

11 project partners & 8 countries involved: Italy, Serbia, Greece, Slovenia, Albania, Croatia, Montenegro, Bosnia and Herzegovina

> ADRIPASS project is EUSAIR labelled project within the "Soft measures" category for Pillar II - Connecting the region.

> > Adriatic and Io

ADRIPASS partnership



European Regional Development Fund - Instrument for Pre-Accession II Fund

ADRIPASS









To improve the planning capacities of **transport stakeholders** and **policy makers** facing the same challenges concerning the **multimodal transport accessibility** and **network efficiency** in the ADRION region, from both a strategic and operational perspective, through the increased cooperation among them.

By analyzing bottlenecks on the TEN-T Corridor sections in the ADRION region.

By testing ICT solutions.

By establishing a vision for transport facilitation in the ADRION region.







To improve the planning capacities of **transport stakeholders** and **policy makers** facing the same challenges concerning the **multimodal transport accessibility** and **network efficiency** in the ADRION region, from both a strategic and operational perspective, through the increased cooperation among them.









**ADRIPASS** analysed physical and non-physical bottlenecks on the Trans-European Transport Networks (TEN-T) corridor sections of the ADRION region, in order to improve multimodal freight transport in the area.



Analysis of BCPs at corridor level and development of Trans-national Action Plan for transport facilitation in the ADRION region.

Specific attention on those sections recently extended to the Western Balkans, where most BCPs are located.

The analysis was performed with surveys and data collection.-

 Determine the operational performance

 Identify potential improvements (soft measures)



## ADRIPASS analysis - data collection

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**ADRIPASS** 

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Blace	North Macedonia	OEM	Igoumenitsa	tsa Greece		OEM		Ristovac/ Presevo		Se	erbia	OEM
Dobrakovo	Montenegro	OEM	Patras	Patras Greece		OEM		Sid		Se	erbia	OEM
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## **ADRIPASS analysis** - data collection







Focus of the analysis:
> 30 Road BCPs
> 21 Railway BCPs
> 15 inland waterways ports
> 28 inland terminals and
> 15 sea ports

**Conclusio**n(s): There is a large margin for improvement of operations at ports and gateways and BCPs. Unless serious measures are taken, border crossings and other nonphysical barriers will still hamper the full exploitation of existing, upgraded or even completely new and modern infrastructures.

Report available online.







**Transnational action plan for transport facilitation in the ADRION region** is based on a mixed bottom-up and top-down approach (data collection + relevant strategic studies/plans).

The action plan proposes priority measures to be taken at corridor level for overcoming the identified bottlenecks, complementing the results already achieved in past experiences.

Macro-categories were identified for problems, barriers or bottlenecks that affect the intermodal transport in the ADRION region, and relevant solutions.

Supplementary sub-categories of measures were identified to reflect the aim of the ADRIPASS project - to improve intermodal transport in the ADRION Region with a focus on the adoption and deployment of ICT tools and solutions to solve operational and administrative barriers, and support the interconnection between the logistics nodes.

Document available online.

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measures

measures



Due attention given to the implementation of **non-physical measures aimed at increasing the use of existing infrastructures**, making them more attractive by increasing their efficiency

**ADRIPASS analysis - Measures** 







With 4 pilot actions (Koper, Bar, Ploce, Igoumenitsa), and 1 pre-investment study (Durres), ADRIPASS was:

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Testing specific ICT solutions (upgrades of PCSs) for streamlining freight transport in ADRION ports, setting standards which may be replicated to Electronic Data Interchange interfaces at BCPs.

The objective of the implementation of ICT tools and applications is to reduce problems and inefficiencies and to improve the performance of these corridors, by achieving:

Elimination (reduction) of bottlenecks.Increase of transport capacity.

- Reduction of time needed for processes to be performed at the nodes.
- Promotion of multimodal transport.





**ADRIPASS** 



Valletta

#### Port of Koper

- ACAR Hybrid System 🗸
- Vehicle Booking System upgrade√
- ➢ EDI center upgrade ✓

#### Ploče port authority

- PCS upgrade ✓  $\geq$
- communication with port supply chain 🗸

#### Port of Bar

- PCS upgrade ✓
- Possible mobile solutions ✓
- Control Center upgrade 🗸
- Truck Module upgrade 🗸



PCS

## **ADRIPASS testing - Pilot Actions**





#### Results obtained:

- The <u>hybrid system ACAR</u> allows the registration and the booking of the arrivals/departures of trucks transporting cars in/from the port of Koper.
- The <u>Vehicle Booking System (VBS)</u> is an online platform that allows checking the cargo status and scheduling plans.
- The <u>EDI (Electronic Data Interchange)</u> systems are specific tools for the registration of containers entering/leaving the port.

(Port of Koper)

- Upgrade of PCS technology in order to develop a <u>central control management system</u> based on a single-window concept, being able to share and capture data to better analyze its flows in the Port of Ploce area
- Improvements in the traffic of goods <u>towards the hinterland</u>, considering the automations developed from the entry or exit respectively to or from the port.

(Ploce port authority)

Development of three new PCS modules:

- The <u>Control center module</u> allows stakeholders to use the reports and statistical data related to their roles in the port community
- The <u>Customs module</u> allows the custom administration of Montenegro to monitor cargo movement in the port of Bar
- The <u>Truck module</u> allows regulation of the trucks and cars entering/exiting into/from the port of Bar (Port of Bar)





## **ADRIPASS testing - Pilot Actions**





#### Results obtained:



- New tool for analysing port-hinterland flows about road transport
- The toll station TYRIA on the Egnatia highway represents the gate for RUTH data from/to Igoumenitsa
- Information about points of interest within the area of the Igoumenitsa port;
- Augmented reality tools (AR) in the port to provide information to truck drivers: available on <u>Google</u> <u>Play</u> and <u>App Store</u> (Region of Thesprotia)

- Drafted the guidelines for the implementation process of the <u>Port Information System</u> which will act as a single communication and exchange platform for the whole community that must exchange information with DPA as well as between the various stakeholders.
- Defined all the necessary requirements that the Project must solve with regards to the technical and functional specifications, the calculation of time and budget for an effective and successful implementation of the PCS of the Integrated Port System of Durres in collaboration with the companies concerned to the implementation of this system (Durres port authority)









**ICT action plan for improving multimodal transport in ADRION regions** is based on activities from the pilot actions.



Promote the development of ICT tools at ADRION level in order to improve transport links between ports and hinterland logistic centres, as well as multimodality in the region.

The development of tools dedicated to the digitalization of solutions that enable a better link with the hinterland and the speed up of procedures on the logistic chain.

Document available online.







Based on the results from project's analysis and testing phases, ADRIPASS seeked to provide a clear **vision and policy recommendations** by defining a

Transnational strategy for the enhancement of multimodal transport efficiency and competitiveness of the transport sector in the ADRION region

#### Strategy's mission:

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- Supporting cooperation among key stakeholders (port authorities, terminal/logistic operators, freight forwarders)
- Providing guidelines to policy makers at national level (ADRION national Ministries of Transport) to implement measures to multimodal transport facilitation on the TEN-T Corridors in the ADRION region.
- Increase the capacity of ADRION transport policy makers at European level (European Commission DG MOVE, DG REGIO and DG NEAR European Transport Corridor Coordinators, Transport Community) to plan and implement transport facilitation measures in ADRION region, with a special focus on the recently extended TEN-T Corridors to the Western Balkans.

## ADRIPASS vision - Transnational Strategy







#### **ADRIPASS vision** - Trans. Cooperation Network





The Strategy was the object of Letters of Support signed by the Project Partners, Associated Partners and invited institutions within December 2020, as to ensure the highest level of political commitment and durability towards its concrete implementation, setting up a permanent transnational cooperation network.

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Setting up an enduring multilevel and multidisciplinary transnational cooperation network will guarantee an important impact on sustainable transport in this transnational area and beyond.

## Project partners

# Associated partners

(ADRION national Ministries of Transport, Freight Villages, Regions, Ports) Relevant stakeholders (e.g. TCT) 

#### **ADRIPASS vision** - Trans. Cooperation Network



ADRIPASS









COVID19 emergency affected the possibility to further disseminate ADRIPASS results. Funded under the Interreg ADRION 4<sup>th</sup> restricted Call, **ADRIPASS PLUS** project was born.



Further capitalization and upgrade of some of the key outputs of the ADRIPASS project (by taking into account the effects of COVID19 pandemic) for better multimodal transport accessibility and network efficiency in the ADRION region.

#### Duration: January-June 2022

8 project partners & 7 countries involved: Italy, Serbia, Greece, Slovenia, Albania, Montenegro, Bosnia and Herzegovina





Building on ADRIPASS' positive results and the importance of capitalizing and further developing sustainable solutions for improving multimodal freight transport in the region, ADRIPASS PLUS will focus on:

Promoting stakeholders' involvement to update the ADRIPASS Transnational Strategy (special focus on resilience to COVID19 & economic crisis) Capitalizing, upgrading & enhancing already developed ICT platforms, for more efficient maritime-hinterland connectivity Further dissemination of project results at national, regional & transnational level, & increasing awareness of ETC projects solutions among relevant stakeholders





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Update of the ADRIPASS Transnational Strategy Enhancement of ICT platforms in Port of Bar and Port of Koper Further dissemination of project results at national, regional & transnational level, & increasing awareness of ETC projects solutions among relevant stakeholders

> Dissemination and capitalization of project results





2 meetings of the **ADRIPASS Transnational Cooperation Network** envisioned in order to provide quality inputs for the update of the ADRIPASS Transnational strategy for the enhancement of multimodal transport in the ADRION region.



1<sup>st</sup> TCN on 2<sup>nd</sup> March 2<sup>nd</sup> TCN in May

New ideas/inputs shared on: digitalization and adoption of ICT tools, BCP infr. extension, focus on external borders of the Region member states, alternative fuels, reforms with harmonization with EU Acquis, etc.

ADRIPASS PLUS project foresees the update and the improvement of the ADRIPASS Transnational strategy not only to ensure its resilience to COVID-19 and the consequent economic crisis but also to take into account relevant updates at national and transnational level.





#### Port of Bar - enhancement of ICT platform

The Port of Bar owns 4 truck scales (at 3 different locations) used for measuring the exact weights of cargo entering to or exiting the Port of Bar.

- Pilot activity will be focused on integration of the internal IT system of the Port of Bar (LUBARIS) and the PCS.
- Within this pilot, stakeholders (agents and freight forwarders) will not have to physically come to pick up the paperwork, but they will be able to see through the PCS every truck that is being scaled, and in addition, they will be able to export all that data to the CSV or similar format and then use them for personal data processing.
- Truck module has been improved within the ADRIPASS project (established new possibilities to electronically keep track of truck movement), therefore, this pilot actions is based upon the achieved result of the ADRIPASS project.









#### Port of Koper - enhancement of ICT platform

Vehicle Booking System as one of the most important in the process of digitalization in the port of Koper. The announcement of vehicles extended to 3 gates.

- Act. 1 Screen mask for displaying announcement data to the operator in the receiving office based on contactless reading of driver's badge
- Act. 2 Blocking of announcement once the announcement is confirmed by the operator, it will be blocked so that the driver will no longer be able to change the data on it
- Act. 3 Reading of badges by portable devices
- Act. 4 Preparation and electronic confirmation of un/loading cars
- Act. 5 Developing an application for displaying data for customs
- VBS system has been upgraded within the ADRIPASS project, therefore, this pilot actions is based upon the achieved result of the ADRIPASS project.

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#### Integrating multimodal connections in the Adriatic-Ionian region











## Thank you for the attention!



ADRIPASS PLUS



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