

D.3.3.3 Report on Action plan impact

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INTRODUCTION

In the scope of CHARGE project, two partners developed pilot actions for the resolving of bottlenecks found in their area. These pilot actions have been described in the Action plan, and their impact is described in this document.

The problems detected and resolved in the scope of CHARGE project are:

1. Lack of communication between all actors in the logistic chain in Croatia
2. Low visibility due to weather conditions in port of Venice

The lack of communication between all actors in the logistic chain in Croatia can be resolved by installation of a National Single Window (NSW) system. The idea is for Croatian NSW to be made available to all logistic actors with relevant, real time and accurate data. Croatian NSW will be upgraded in order to ensure:

- The exchange of information from NSW applications and announcements of maritime facilities
- The establishment of port area occupancy records and exchange of AIS data

The system was tested in the Port of Split with partner Port Authority of Split.

Low visibility due to weather conditions in port of Venice partners will try to resolve with the production of a free mobile application. North Adriatic Sea Port Authority, the responsible partner, in the recent years have been investing in the Intelligent Transport System to increase nautical accessibility of the port. One of port of Venice main bottlenecks is low visibility due to weather conditions, that hamper if not prevents the navigation, in occasion for a days in a row. For this reason, the Port Authority started several projects with the scope of equipping

the lagoon with series of sensors and cameras, gathering their information and elaborating them through its Port Community System in order to give real time information to the commercial ships and cruises on the weather condition in the lagoon (wind, temperature, visibility, special notices).

In the scope of the CHARGE project, partner developed an application that shows the nautical cartography with dynamic reference based on the device position. This application can give its users the possibility to have easy access to real time data related to:

- georeferencing
- weather condition
- port accessibility (port entry/exit conditions)
- maritime traffic data (presence of other vessels)
- special notice to navigators

The application was tested by internal staff of NASPA and with the aid of the external supplier.

ABSTRACT

The Report on Action plan impact presents the results of the two pilot actions tested within the CHARGE project which were implemented to resolve the two problems defined in the Action plan. In the scope of the CHARGE project first steps for the development and promotion of the Motorways of the Sea were made with the resolving of the two chosen bottlenecks.

EXECUTIVE SUMMARY

The Report on Action plan impact presents the results of the two pilot actions tested within the CHARGE project which were implemented to resolve the two problems defined in the Action plan. The result of the pilots consist in a “free mobile application” that gives to all port users the possibility to have easy and free access to real time data. In the scope of the CHARGE project the first steps for the development and promotion of the Motorways of the Sea were made with the resolving of the two chosen bottlenecks through pilot actions. Motorways of the Sea are maritime services integrated into the door-to-door logistics chain using sustainable, regular, frequent, high quality and reliable short sea shipping links. The solutions to the two bottlenecks can be considered as first steps toward the establishment and promotion of sustainable and eco-friendly transport chains in Italy and Croatia.

RESULT OF THE TESTING

The result of the pilot consists in a “free mobile application” that gives to all port users the possibility to have easy and free access to real time data related to:

- georeferencing
- weather condition
- port accessibility (port entry/exit conditions)
- maritime traffic data (presence of other vessels)
- special notice to navigators

In addition, it provides to the partnership added value and knowledge in the specific field of data sharing on maritime level and port purposes.

It is a new system to share maritime data among all port users that brings innovation to the project and that can easily be replicated using more standardized information from the ports, making certain services more accessible for goods handling and traffic flows.

Intervening for better navigability conditions means facilitating the freight and passenger disembarking, improving the road and rail traffics, hence a pilot activity completely in line with a multimodality approach.

NSW-port IT systems exchange functionalities have been agreed between the MSTI and Port of Split and Ploče after which the procedure for the selection of the external expert provider was carried out.

NSW was upgraded by the end of May 2019 and is ready to be interconnected with the port IT systems via web services exchanging data on ships, cargo, passengers and all other official administrative formalities regarding the ship calls at Croatian maritime ports.

Subject web service data exchange is enabled in both directions NSW to port IT systems and vice versa allowing NSW on one side to push all relevant NSW data to ports and on other side enabling port IT systems to deliver port operative data to NSW.

Beside the scope of regular ship electronic reporting based on inputs from shipping industry, the advanced “AIS trigger” functionality was developed based on Inter-VTS Exchange format (IVEF) enabling automated ship’s movement monitoring on arrival at / departure from the area of the port authority, based on Automatic Identification System (AIS) information, thus improving the safety and logistics processes.

CONCLUSION

In the scope of the CHARGE project first steps for the development and promotion of the Motorways of the Sea were made with the resolving of 2 chosen bottlenecks. Motorways of the Sea are maritime services integrated into the door-to-door logistics chain using sustainable, regular, frequent, high quality and reliable short sea shipping links. Motorways of the sea are a practical example of the definition of combined transport. It is an intermodal mode of transport where the maritime part is most of the way, using the rail and road systems in as little travel as possible.

Due to the fact that the Motorway of the Sea system involves the use of multiple modes of transport with the obligatory use of maritime transport (short sea shipping), the ports as a point of connections are recognized as the most important and sensitive elements. 2 bottlenecks detected in the ports were resolved through the pilot action implementation, and although many bottlenecks were found in the analysis and solutions proposed by partners, these solutions can be considered as first steps toward establishment and promotion of sustainable and eco-friendly transport chains in our two countries.