



PORTIS

**SETTIMANA EUROPEA DELLA MOBILITÀ**

# **The Port of Trieste: a connected system towards transport efficiency**

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# Why the port of Trieste in CIVITAS PORTIS?

## Trieste 2018



**1<sup>st</sup>**

port in Italy  
 for rail traffic

**1<sup>st</sup>**

port in Italy  
 for total  
 tonnage

**1<sup>st</sup>**

oil port  
 in the  
 Mediterranean  
 Sea

**6<sup>th</sup>**

port in Europe  
 for Short  
 Sea Shipping  
 (SSS)

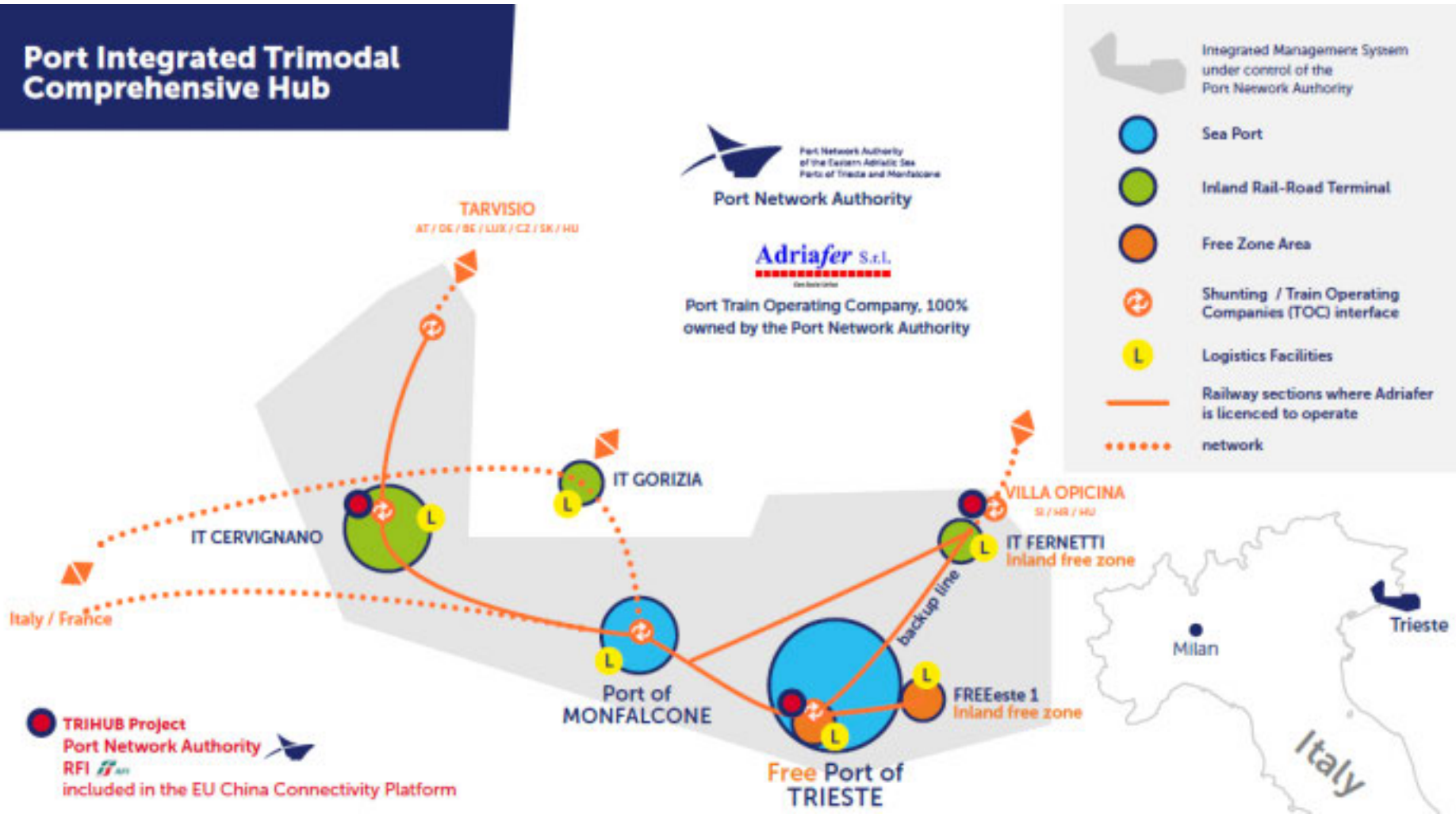
**12<sup>th</sup>**

port in Europe  
 for total  
 tonnage

Eurostat Transport Statistics 2018, 2017 dat

# The port of Trieste – regional hub

## Port Integrated Trimodal Comprehensive Hub



# Port network - our vision

## Our Vision: City-Port-Free zone

*New integrated governance and vision:*

- Port +
- Free zone manager +
- Industrial Development Consortium (CoSELAG) +
- Integration with other regional hubs +
- Cooperation with European inland terminals =
- All controlled by the same Port Authority

**One Decision Maker**  
**"One-Stop-Shop" for investors**  
**Full integration with the regional territory**  
**European facilities networking**



## Port network - our vision

### Physically connected

- ✓ Considerable financial investments
- ✓ Medium and long-term time frame
- ✓ Necessary to accommodate increasing transport demand

### ICT integrated

- ✓ Relatively low financial investments
- ✓ Short and medium-term time frame
- ✓ Optimisation of existing assets and infrastructures

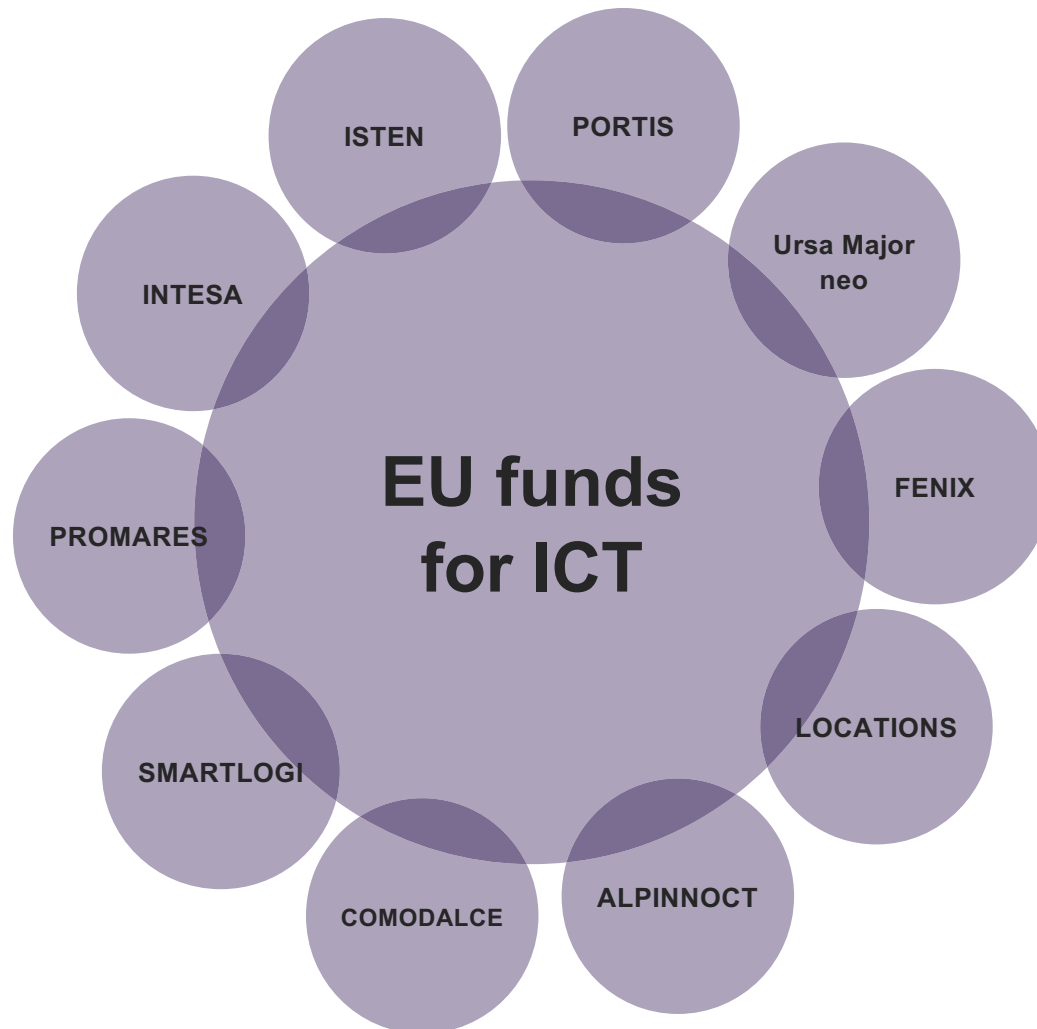
Create a wide port community

Enhance port competitiveness

Increase attractiveness for potential investors

Improve environmental performance

# Tools: EU funds



# Civitas PORTIS - activities



The Port of Trieste focuses on:

## ✓ 4TRS1- Coordinating freight movements:

- The **control room** to be equipped and prepared to be ready to receive and manage additional data concerning the monitoring of **terminals' entering and exiting points** inside the port;
- **Synergies** with already implemented activities by the Port Authority (fiber optic) and terminal operators (cameras) with own funds;
- Installation of **additional cameras and devices** to monitor the entrance and exit at the container terminal.

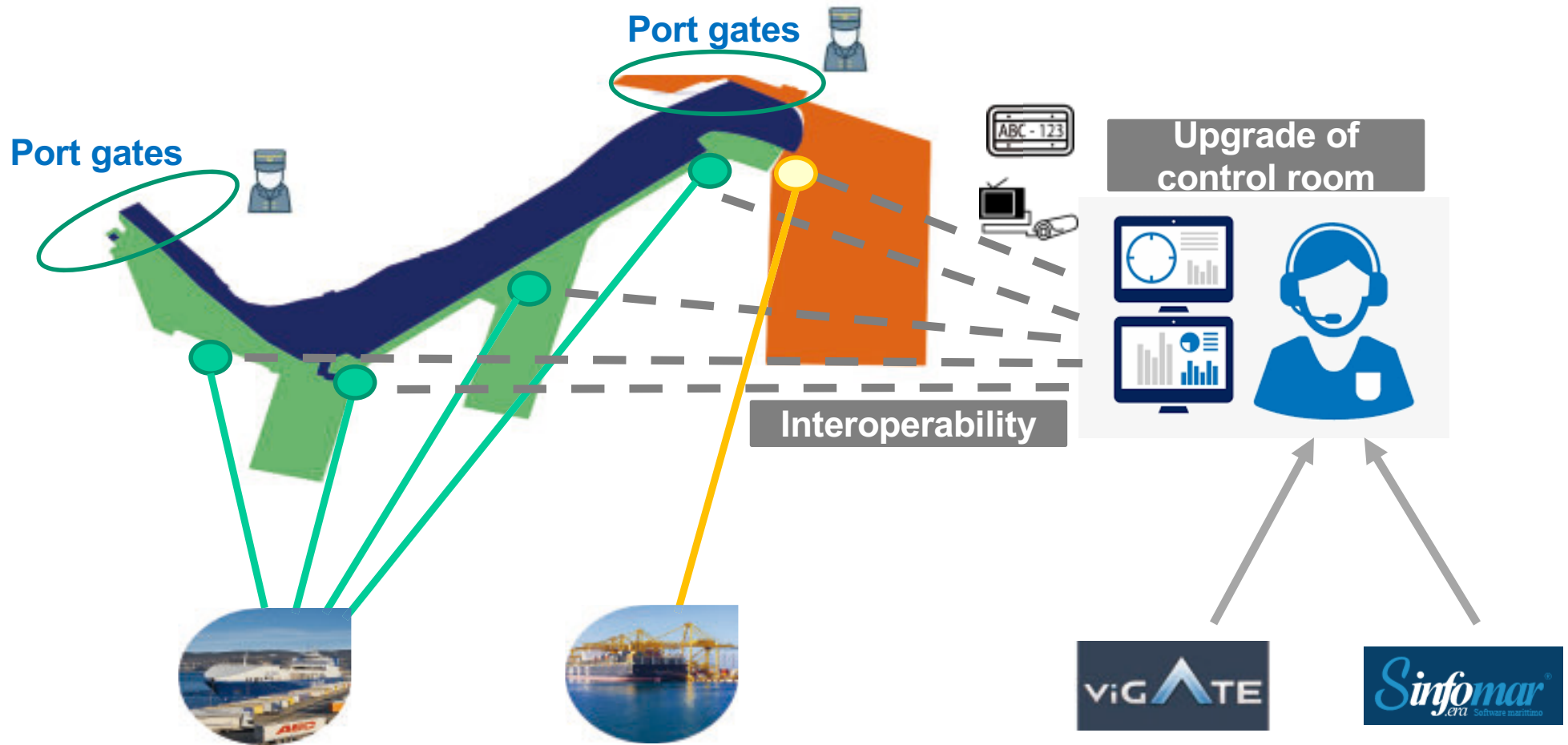


### ✓ 4TRS2 - Regulating access regulation to the Port area:

- Development of an **automated gate data exchange system** related to vehicles and containers entering/exiting the port terminals;
- Design, implementation and development of an **interoperability mechanism** with the private terminals access systems, using a unified standard and to be connected and managed by the control room;
- Monitoring the “**remote access**” to **Trieste city and port** through vehicle plates capture video cameras along motorways getting to Trieste port though the control room ← synergies with other European projects and initiatives



# Civitas PORTIS – expected results



# Civitas PORTIS – expected benefits



## At Port level

- Collection of **enhanced data about traffic flows** entering and exiting the port terminals
- **Punctual and real time tracking** of the vehicles and cargos inside the port areas to better manage port spaces, terminal occupancy
- Monitoring of **port congestion**, wasted time in port operations and **energy consumption**
- Reduction of congestion, improvement of safety and a **better management of emergencies** in port areas.

## At Port-City system level

- Increase **coordination of freight movement** activities outside the port
- Reduction of traffic congestions and **increase freight transport efficiencies**
- **Punctual knowledge** of vehicles and containers entering/exiting terminals, in the area between the port gates and the terminal gates and entering the city
- Monitoring of impact on **city congestion, air quality, average vehicle occupancy.**

- Objective: to integrate IT systems of motorways and ports as to monitor and plan more efficient routes for freight transport
- Funding Programme: CEF
- Total project budget: 150 mln euros
- Project duration: 02/2017-12/2020

### Main outputs:

- Data exchange with motorway concessionaires on the route Trieste-Udine-Tarvisio (border with Austria)
- Innovative gate automation processes will be developed for better synchronization of freight flows.

The combination of these two activities will allow to monitor and forecast potential port-related congestion on the city road network.

- Objective: to establish a federated network of transport and logistics actors across Europe, enabling sharing of information and services needed to optimise TEN-T corridors from economic, environmental and asocial perspectives.
- Funding Programme: CEF
- Total project budget: 60.9 mln euros
- Project duration: 04/2019 - 03/2022

### Main outputs:

- Development of an APP for optimization of operations related to inbound trucks
- Slot management at the terminal – interoperability with TOS (Terminal Operating System)
- Pre-gate operations to reduce the number of operations necessary at port gates
- Track & trace of trains to/from the port of Trieste (interoperability with the HERMES/H30)

- Objective: to define measures to improve rail accessibility in hinterland port context and promoting modal shift to the rail transport.
- Funding Programme: Interreg ADRIAN
- Total project budget: 1.1 mln euros
- Project duration: 12/2017 - 05/2020

### Main output:

Creation of a module dedicated to the management of Free Port areas outside the Port of Trieste in the PCS – Sinfomar, allowing to:

- Manage a pre-arrival notice for trucks,
- Identify vehicles present in the external Free Port area,
- Identify vehicles in and outside a customs corridor.

## Main outputs:

- Objective: to enhance cross-border maritime and multimodal freight between Italy and Croatia through the use of ICT
- Funding Programme: Interreg Italy-Croatia
- Total project budget: 2.8 mln euros
- Project duration: 01/2019 – 06/2021
- Creation of a module dedicated to the management of the movement of goods between external Free Port areas outside the Port of Trieste in the PCS, using data from existing cameras, both for rail and road,
- Manage logistical (type of vehicle, plate, etc.), custom (type of good, MRN) and driver/company-related data.



**Interreg**  
Italy - Croatia  
INTESA

European Regional Development Fund



EUROPEAN UNION



## Main outputs:

- Objective: To improve quality, safety and sustainability of maritime transport services in Italy and Croatia
  - Funding Programme: Interreg Italy-Croatia
  - Total project budget: 2.9 mln euros
  - Project duration: 01/2019 - 06/2021
- Creation of a new module in the PCS for the electronic and smart monitoring of the natural harbour of the port of Trieste;
  - Interface with the VTS – Vessel Traffic Service;
  - Creation of a new module for managing the anchorage duties in the PCS.



## Main output:

- Objective: to strengthen institutional cooperation between Italy and Austria neighbouring regions to foster modal shift of cargo from road to rail
  - Funding Programme: Interreg Italy-Austria
  - Total project budget: 1.3 mln euros
  - Project duration: 01/2018 - 06/2020
- Creation of a logistic corridor between the Port of Trieste and the RRT of Fürnitz, data exchange related to train composition as to fasten train entry/exit and custom clearance;
  - To streamline rail cargo flows thus increasing the port railway capacity and favour modal shift.



### Main output:

- Objective: to enhance coordination of multimodal freight transport stakeholders in Central Europe through innovative ICT solutions
  - Funding Programme: Interreg Central Europe
  - Total project budget: 2 mln euros
  - Project duration: 04/2019 - 03/2022
- Upgrade of the train module of the PCS with the full digitisation of the railway consignment note, as well as the component related to the controls of the Customs Agency and Finance Police as to streamline rail cargo flows.

- Objective: to improve processes and cooperation in combined transport networks and to integrate innovative approaches fostering modal shift from road to rail
- Funding Programme: Interreg Alpine Space
- Total project budget: 3.1 mln euros
- Project duration: 11/2016 - 01/2020

### Main outputs:

- Data exchange with RUs concerning: position of the wagon in the train, wagon number, container plate number, type of good (HS code), semi-trailer / container, mass, tare, weight, gross mass, seal number;
- Integration with PIL SSH.

- Objective: Mitigate the impact cruise ships related traffic has on cities improving the quality of life of inhabitants and passengers
- Funding Programme: Interreg MED
- Total project budget: ca. 3 mln euros
- Project duration: 11/2016 - 10/2019

#### Main outputs:

- Increasing institutional and operational capacity to foster the use of existing low-carbon transport systems and multi-modal connections for cruise-related passengers;
- Acting on the capacity of port, local and regional authorities to jointly develop planning tools for sustainable mobility integrated with the mobility chapter of SEAPs or the cities' SUMP;
- Fostering a more reasonable use of resources and a territorially-based approach.

**Thank you for your kind attention!**

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