

## **COREALIS** Webinar

# **Port of Valencia Living Lab**

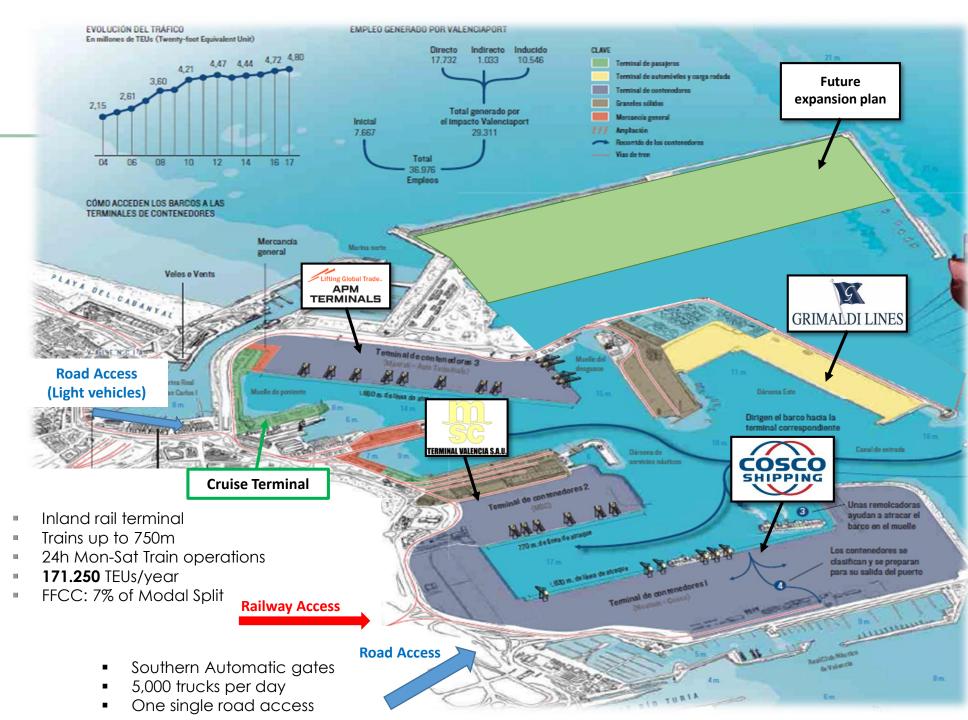
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#### Port of Valencia:

- First Port in the Mediterranean (Container Cargo)
  - 5.1M TEU
  - 73M Tons
- More than 400.000 passengers
- More than 5,000
   Trucks calling daily at the Port Gates
- Rail share 7%
- Port Hub: 50% I/E
   and 50%
   transhipment





# Scenarios in the LL of Valencia



#### Scenario 1:

#### **Advanced TAS**

(VPF, SGS & NEC)

✓ Sub-scenario 1.1

Booking System for Container Terminals in which they define and manage the different slots based on their preferences

√ Sub-scenario 1.2

Booking System for Port Community Agents in which they select the different slots to perform the delivery and pick-up operations

#### Scenario 2:

# JIT Rail Shuttle Service (VPF)

Feasibility study to minimize the container movements in the terminal and optimize the loading/unloading operations the train that covers:

- Design of the physical solution
- Design of the operational solution (service characteristics)
- Information flows and exchange
- Business models

#### Scenario 3:

# Innovation Incubator (Hackathon Organization) (VPF, & PoA)

Organization of a X-day event (still to be defined) where students, professionals, start-ups & scale-ups tackle challenges within the maritime and logistics sector.

In the hackathon event, everybody is welcome to cocreate the concept of port of the future, facing the main challenges of the port community of the port of Valencia.



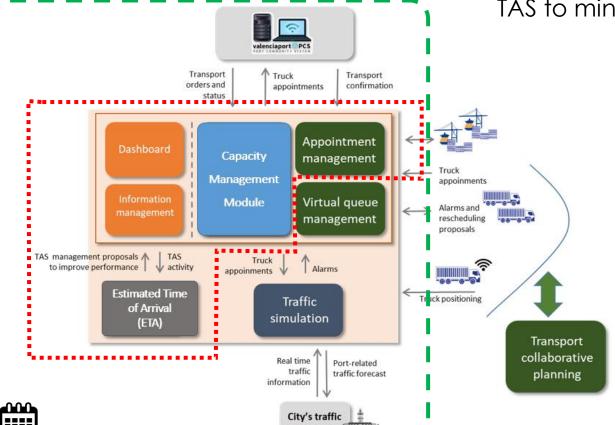


## COREALIS Advanced transport mgmt & TAS



#### **Truck Appointment System:**

**Objective:** demonstrating advantages of an innovative TAS to minimize road transport impacts TAS in two steps: Transport T Truck



control :

- Simple TAS:
  - Appointment Management
  - Capacity Management
  - Dashboards
  - Simple ETA based on static position
- Advanced TAS: (possible functionalities)
  - Full Integration with the PCS
  - Pre-Booking
  - Virtual queue
  - Accurate ETA
  - Integration with external sources





# **COREALIS JIT Rail Shuttle Service**



### Just In Time (JIT) Rail Shuttle Feasibility Study

**Objective:** Elaborate a feasibility Study of an innovative JIT rail shuttle for key port-hinterland corridors (Specific study for one corridor) to **increase the modal split** of the railway for inland



- Design of the physical and operational solution:
   Service characteristics
- Information system requirements
- Definition of the business model





# **COREALIS Hackathon**



### **COREALIS Innovation Incubator: Hackathon Organization**

**Objective: Foster the collaboration** among the port-logistics cluster and SMEs/start-ups by establishing new networks and partnership agreements to promote innovation, further digitalization and sustainability in the port-city environment.



#### Hackathon

**Organization of a X-day event** (still to be defined) where students, professionals, start-ups & scale-ups tackle challenges within the maritime and logistics sector.

- Proposals for innovative solutions relevant to the port needs
- Digitalization of port operations and processes
- New agreements between Start-ups and the port community





# Contribution of the LL to the COREALIS goals



#### **COREALIS** objectives

O1. Embrace circular economy models in its port strategy and operations.

**O2.** Reduce the port's total environmental footprint associated with intermodal connections and the surrounding urban environment for three major transport modes, road/truck, rail and inland waterways.



O3. Improve operational efficiency, optimise yard capacity and streamline cargo flows without additional infrastructural investments.



**O4.** Enable the port to take informed medium-term and long-term strategic decisions and become an innovation hub of the local urban space.



Innovation Incubator (Hackathon)







### Next steps:

#### 1 Advanced TAS:

- Develop the first phase of the TAS and check it with the port community.
- Discuss the set of additional functionalities for the second phase with the main actors involved.

## 2 JIT Rail Shuttle:

Finish the feasibility study and set a roadmap for the implementation of the service

## 3 Innovation Incubator (Hackathon):

- Set the challenges to be faced by the "hackers".
- Select the main participants: experts, coaches, etc.







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## THANK YOU FOR YOUR ATTENTION



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