

THE PROJECT

The **SIMULTRA** project - Simulation of Logistics and Transport Processes - aims to implement six simulation tools for some of the main operational processes in the logistics and transport sector:

- 📍 supply chain management,
- 📍 intermodal platform,
- 📍 port operations,
- 📍 warehouse logistics management,
- 📍 road transport management,
- 📍 customs practices.

ADVANCED TRAINING METHODOLOGIES:

Process simulators are tools that can be integrated into present professional training and educational paths, providing new **solutions for learning**.

Each simulator comes with a user and **installation manual**, a description of the **professional profile** of which the main task is replicated and features the **list of learning outcomes** (and therefore of the knowledge, skills, abilities).

**ARE YOU
READY TO BECOME
A MANAGER OF
LOGISTIC PROCESSES?**

PARTNERS:



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**SIMULATION OF LOGISTICS
AND TRANSPORT PROCESSES**



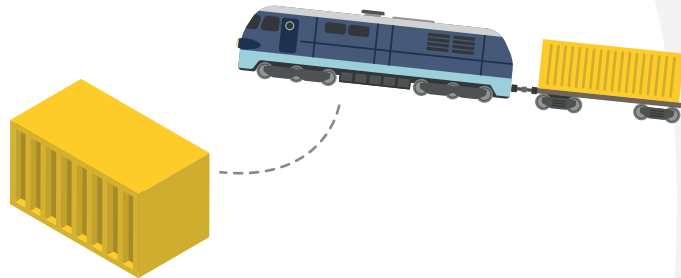
Erasmus+

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SUPPLY CHAIN MANAGEMENT

The simulator allows you to **calculate** all **costs** related to transporting a container departing from a location (even outside Europe) and arriving in Europe.

Therefore it allows to plan and **organize the whole transport chain**, evaluating over time any changes in order to reduce costs.



INTERMODAL TRANSPORT MANAGEMENT

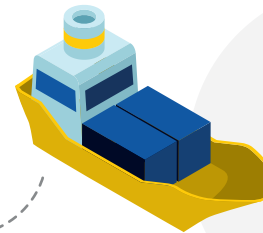
The simulator allows to manage:

- the arrival and departure of a train,
- the loading / unloading of the transported intermodal transport units,
- the storage in the appropriate areas,
- the arrival and departure of road transport at the terminal for the delivery and pick up of containers.

The use of all the **documents** and **instruments** essential for an intermodal platform and the exchange of communications and information with the actors involved is envisaged.

PORT OPERATIONS

The simulator allows the **planning** and **organization** of all the resources and equipment necessary for the management of a ship arriving at the port of Antwerp, in order to **optimize** the loading and unloading **times** of containers in the Port.



WAREHOUSE LOGISTICS MANAGEMENT

The simulator faithfully replicates a WMS **warehouse management system** allowing the input of data related to the loading units and the related goods received and stored at the warehouse.

In the same way the drawing up of the picking lists and shipping orders is allowed.

The "simulated" management system allows to **interface with real instruments** (barcode reader, label printer) in case of availability of training laboratories.

ROAD TRANSPORT MANAGEMENT

The simulator allows you to plan and organize a road transport mission, evaluating the **costs**, coordinating **drivers** on the basis of driving time and distance to travel.

The tool allows to select **the means of transport** on the basis of the load and to **monitor** the transport mission and the **evaluation of the economic and environmental parameters** after its conclusion.



CUSTOMS PRACTICES

The simulator allows to manage the exchange of information and communications, the preparation and sending of **customs documents** related to an entire process of importing goods from an extra-European country to an EU country.

The interactive **coordination between 4 different parties** is planned in order to clear and deliver the goods to the final recipient.