



Ports & airports

Transport planning
and execution

Container Transport Forecast for Road Haulage

Developed by :



Project by :



Funded by the
European Union

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Operational fields

Technologies

Solutions



CONTAINER TRANSPORT FORECAST FOR ROAD HAULAGE

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PIONEERS
Portable Innovation Open Network for
Efficiency and Emissions Reduction Solutions



Solution description

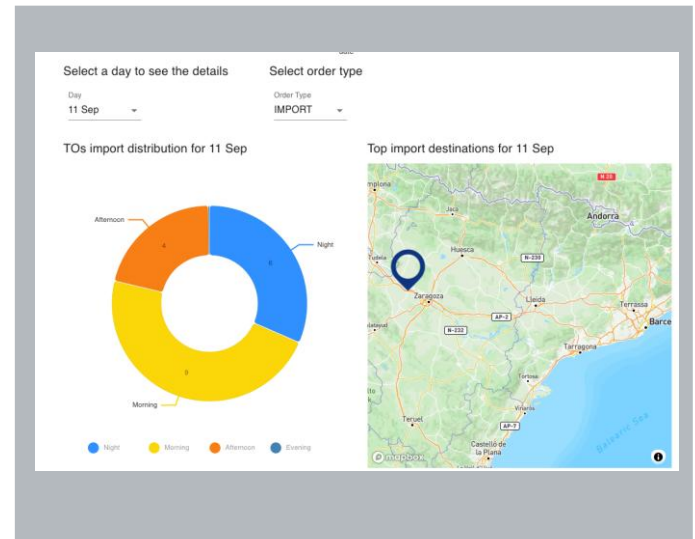
The Container Transport Forecast solution utilizes advanced machine learning models to accurately predict inbound and outbound truck movements specifically for SMEs operating within the Port of Barcelona. The predictions are generated using data sourced directly from the Port Community System (PCS), **enabling truck operators to anticipate transportation demands one week in advance**. Additionally, the system optimizes fleet management by automatically allocating transport orders based on criteria such as cost, speed, or environmental impact, thus significantly improving logistics efficiency and planning.



Benefits

- Enhanced efficiency in transport planning and operations for SMEs
- Significant reduction in congestion at port terminals
- Lower emissions due to optimized routing and fleet utilization
- Improved strategic decision-making through precise demand forecasting
- Automation of order allocation, reducing manual planning effort

SME truck transport companies
Port terminal managers



Technology readiness level : **TRL 5**
Implementation stage : **Pilot**

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Would you like to know more?
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