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Decision Support System for Autonomous Vehicles and Rail Wagons in Ports



Funded by the
European Union

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Developed by :



Project by :



Operational fields

Technologies

Solutions



DECISION SUPPORT SYSTEM FOR AUTONOMOUS VEHICLES AND RAIL WAGONS IN PORTS

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Solution description

Optimizing intra port movements with autonomous systems

- Use of autonomous vehicles in a controlled closed loop environment
- Use of autonomous rail wagons equipped with linear motors that can move containers autonomously that can operate in small groups instead of full trainsets
- Use of both systems in a hybrid environment with autonomous and manual operated vehicles and trains

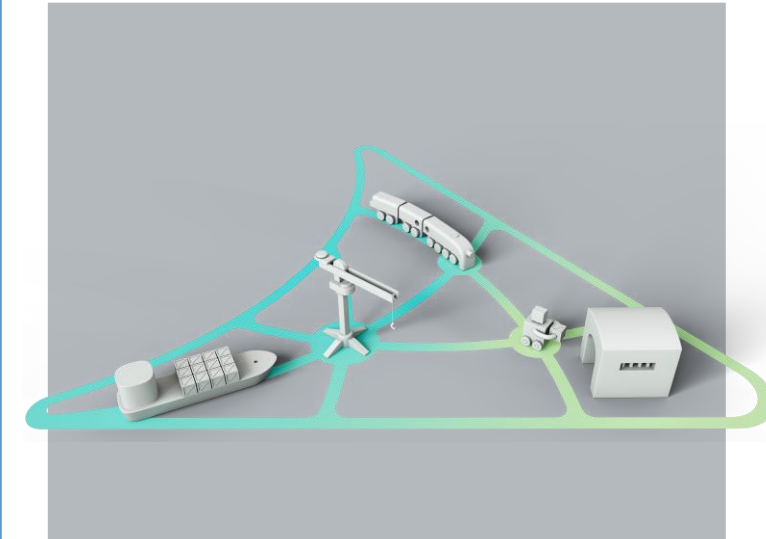


Benefits

- 24/7 Operations
- Higher reliability
- Increased Efficiency
- Optimized Asset Utilization
- Cost Reductions
- Improved Safety
- Reduced environmental impact

Main beneficiary:

Strategic Decision Support for T&L Stakeholders



Technology readiness level : **5**
Implementation stage : **Simulation**

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Optimizing Terminal Container Movements and Rail Last-Mile Efficiency in the Port of Antwerp- Bruges

Intra-port and intra-terminal movements still often rely on **manual labour and polluting assets**, creating operational inefficiencies and environmental concerns.

In this use case, the DSS calculates the impact of the use of autonomous trucks to reposition containers between a terminal and a depot via a private circuit, and the use of autonomous rail wagons between a terminal and a rail bundle in the port

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Would you like to know more?
Take contact :



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