

Port Automation: Berthing & Terminal Simulation







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Project by:







Ports & airports

Automation (physical) and robotics





Solution description

A fully simulated port berthing automation solution evaluating all phases of a vessel's port call: arrival, manoeuvring, berthing, and unberthing.

It integrates autonomous tugboats and an Automated Mooring System at Piraeus Port to model complex operations under varied conditions.

The simulation uses digitalisation and AI to replicate real-world scenarios and assess performance, safety, and operational innovation.



Benefits

- Increased operational efficiency.
- Reduced manoeuvring and berthing/unberthing times.
- Increased port traffic capacity.
- Enhanced safety during critical operations.
- Potential environmental impact reduction.
- Reduction of energy consumption

Main beneficiaries:
Ports, Vessel Operators, Tugboat
Operators, Logistics Providers



Technology readiness level: 4
Implementation stage: Simulation







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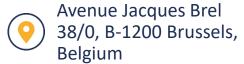






Would you like to know more? Take contact:





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