Ports & airports

Automation (physical) and robotics

Port Automation: Berthing & Terminal Simulation

Developed by :

ΕΠΙΣΕΥ ICCS

Funded by the European Union

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Project by :

AutoMoTIF
LOGISTICS SOLUTIONS SYNERGIES

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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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Connect to the project

Would you like to know more? Take contact :

Giuseppe Luppino
ALICE Programme Manager

Avenue Jacques Brel
38/0, B-1200 Brussels,
Belgium

Giuseppe.luppino@etp-alice.eu

https://automotif-project.eu