

Intelligent Port Operations

Optimise your port operations with Entopy's AI platform

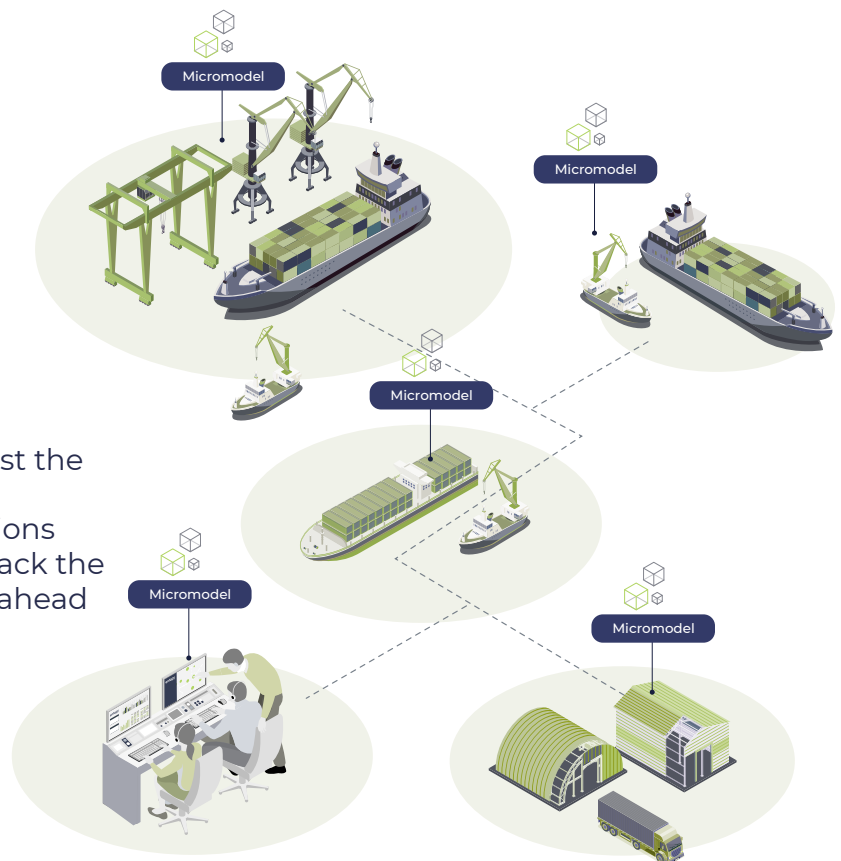
entopy

Improve berth availability by up to 15%

Modern ports operate in dynamic, high-pressure environments. With rising freight volumes, unpredictable vessel arrivals, weather disruptions, and operational bottlenecks, ports face growing challenges around capacity, congestion, resource management, and environmental impact.

Congestion and skipped port calls can cost the industry \$10–20 billion annually, while suboptimal vessel speeds increase emissions and fuel costs. Traditional systems often lack the integration and foresight needed to stay ahead of disruption.

Entopy delivers decision intelligence **4 weeks** in advance and provides simulative capabilities for scenario testing



Challenges you face (and we solve)

- Next 24-48 hours operational planning
 - Tug availability
 - Pilotage availability
 - Accurate vessel arrival times
 - Landside operational constraints
- Operational planning next 5-7 days (optimise vessel steaming speeds for just-in-time arrival)
- Strategic investment analysis

Benefits at a glance

Entropy helps ports strengthen resilience, reduce costs, and increase operational efficiency:

Reduced port congestion & improved flow

Inform optimal arrival time for expected vessels to reduce congestion offshore and in channel.

Increased berth availability

Optimise arrivals, tugs, pilotage and landside to service more vessels.

Fewer skipped port calls

Fewer fines for misses berthing and increased revenue.

Optimised tugboat planning

How many tugs, how many crew without the guesswork and margin.

Improved vessel steaming speeds

Lower emissions & fuel use improving NetZero and Revenue.

Shared situational awareness across stakeholders

Align Port Authority, Landside Operations and Tug crews for efficient operations.

Better planning for weather, disruptions, and peak periods

Fewer surprises meaning a less reactive and more efficient port.

Why Entropy?

Unified ecosystem data

Seamlessly integrates siloed data across stakeholders and systems, to structure and connect information.

AI Micromodels

Targeted models predict specific elements, like vessel arrival times, port traffic, resource demands, up to 4 weeks in advance.

Simulation tools

Model operational scenarios including ferry disruptions, staff changes, berthing plans, and seasonal surges - without affecting live systems.

AI Agent

Interact with your Digital Twin using natural language, ask operational questions, generate charts, and test scenarios instantly.

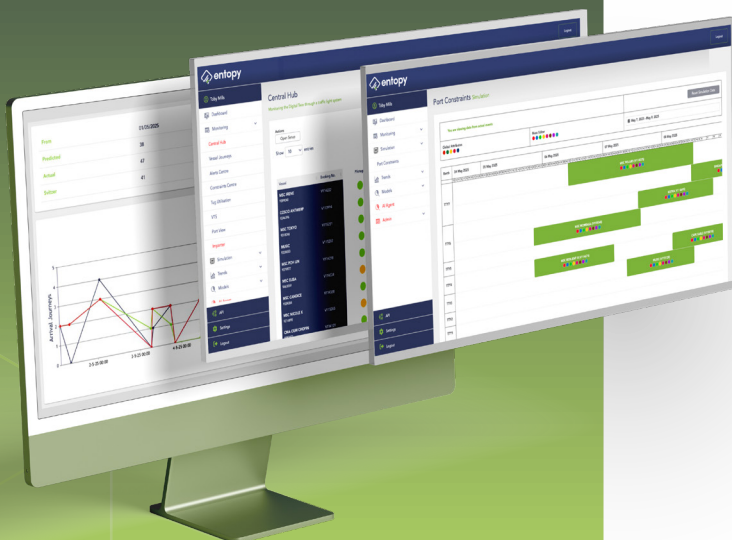
Intuitive dashboards

Clear visualisation of freight, passenger flows, resource allocation, and KPIs to support confident, real-time decisions.

Let's unlock more from your port...

Ready to see what Entropy could do for you?

Book a 15-minute demo.



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Contact us:
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