



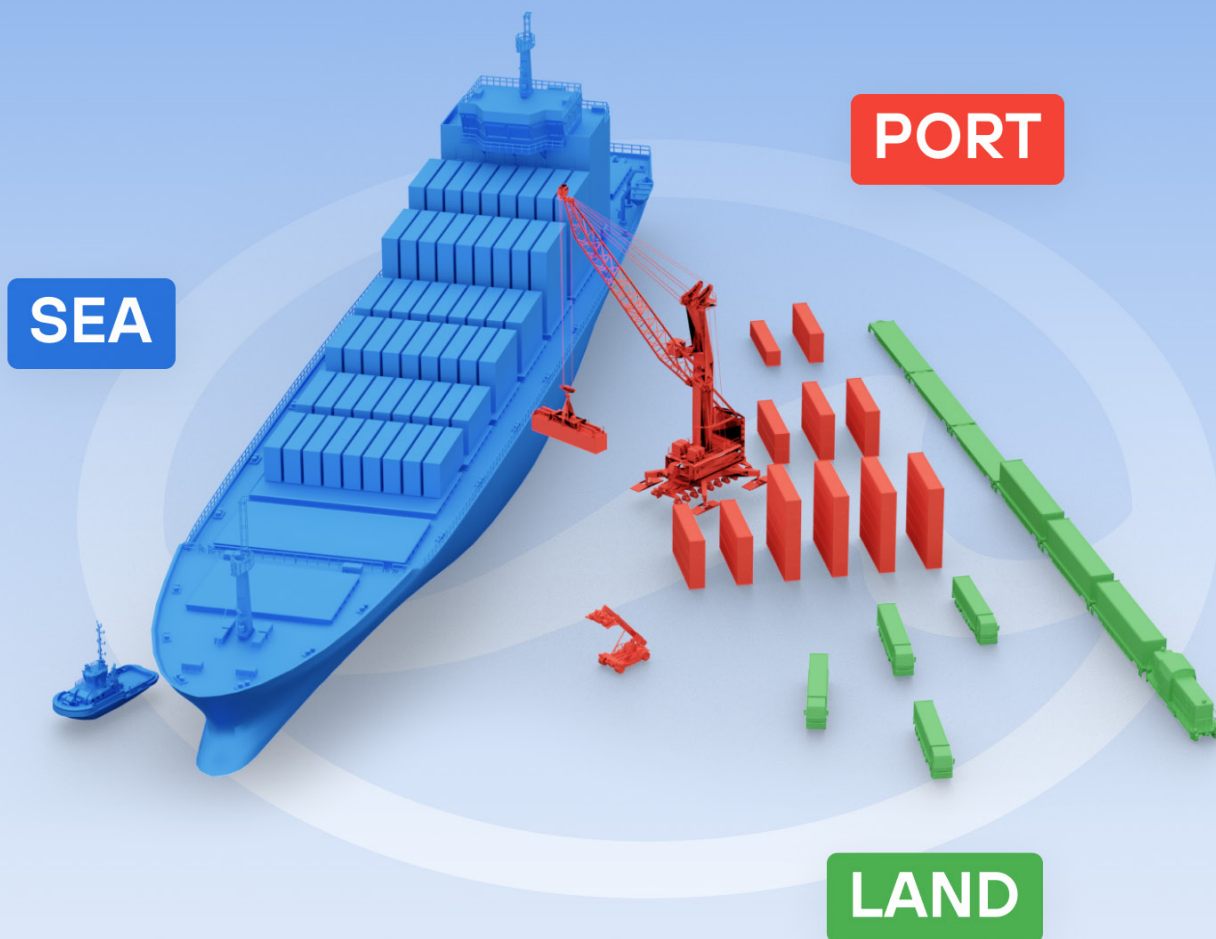
awake.ai

SMART PORT AS A SERVICE™

Better Operational Planning and More Efficient Port Calls

Awake.AI is a leading software platform for smart ports and smart shipping. Our vision is to be the world's most trusted platform and ecosystem orchestrator. Trust is our core value. We work relentlessly to protect the data we process and serve our customers and partners with predictions they can trust to be accurate.

Our application is called Smart Port as a Service that includes the first ship-to-port digital interfaces. The digitalisation of maritime logistics is a journey that has just started.



With more accurate port call schedule predictions, terminal operators are able to reduce ship turnaround times, emissions and costs. You can allocate your time and resources smarter, improve your profit performance, and ultimately deliver more value to your stakeholders.

Smart Port as a Service™



Turnkey solution by Awake.AI
Smart Port as a Service™ can be implemented into operation in few weeks

Our solution contains the following innovations

Port Call Predictions

- Up to 80% improvements in ETA predictions
- From 24h operational visibility to days and weeks ahead

Berth Management

- Berth planning, resource, events and task management
- Cyber security monitoring, threat identification and prevention for ports

Industry Benefits

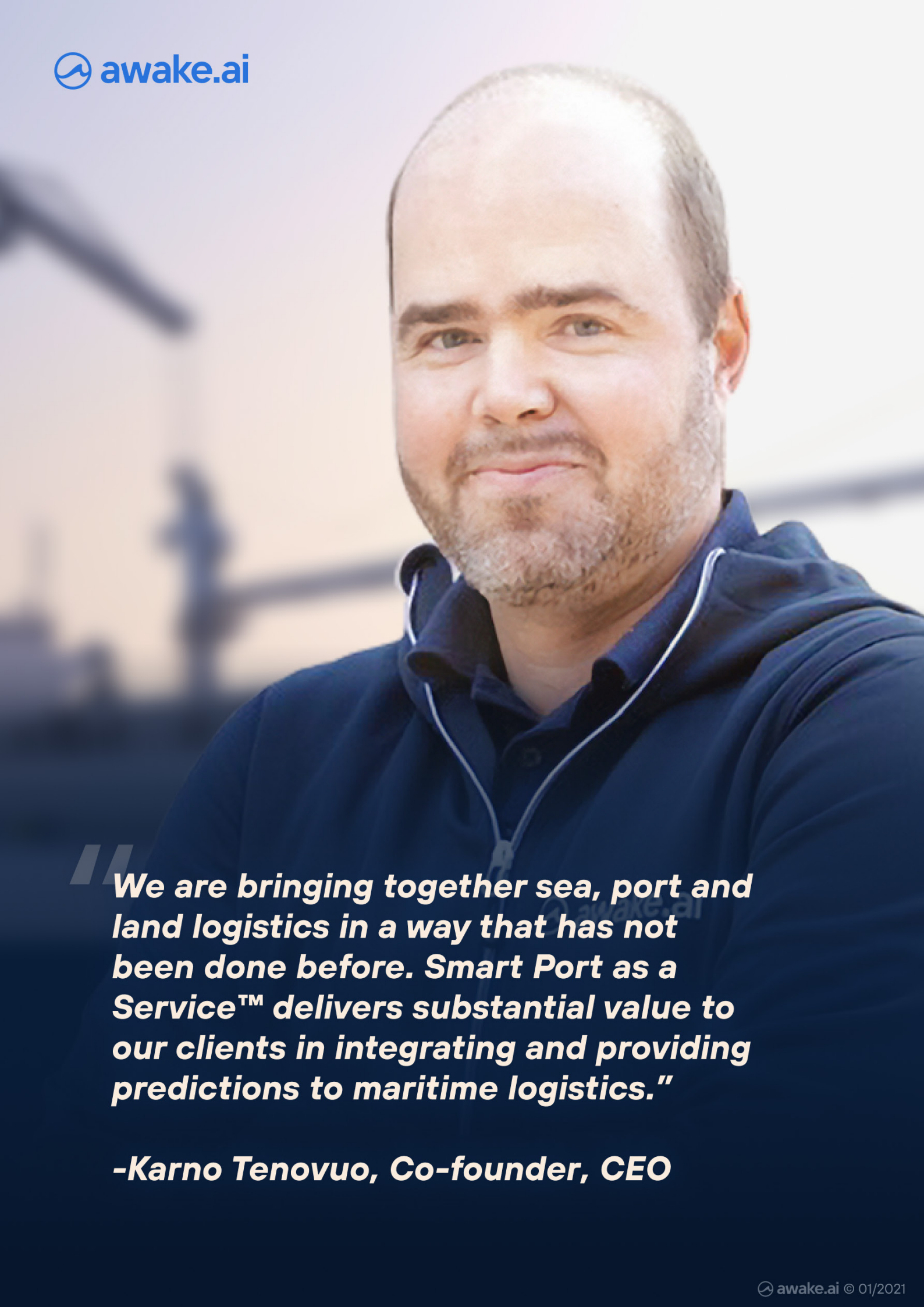
- Open ecosystem enabling 3rd party developers to access the data and new business opportunities
- APIs and ML models that enable autonomous ships to arrive and depart ports in the future

Collaboration

- Instant messaging per port call for all port actors and private channels
- Mobile application for real-time information on the go

Situational Awareness

- Comprehensive maps with real-time asset tracking and fleet management
- Computer vision utilization for identifying, tracking and classifying objects



"We are bringing together sea, port and land logistics in a way that has not been done before. Smart Port as a Service™ delivers substantial value to our clients in integrating and providing predictions to maritime logistics."

-Karno Tenovuo, Co-founder, CEO

Reducing Turnaround Times

We are working with increasing amount of organizations and authorities in standardizing APIs in order to grow the ecosystem. We can abstract the data along the maritime logistic actors and create predictions with the following benefits:



Terminal Operators

cost savings in port operations



Port Authors

cost savings with less delays



Ship Owners

cost savings with reduced turnaround times



Cargo Owners

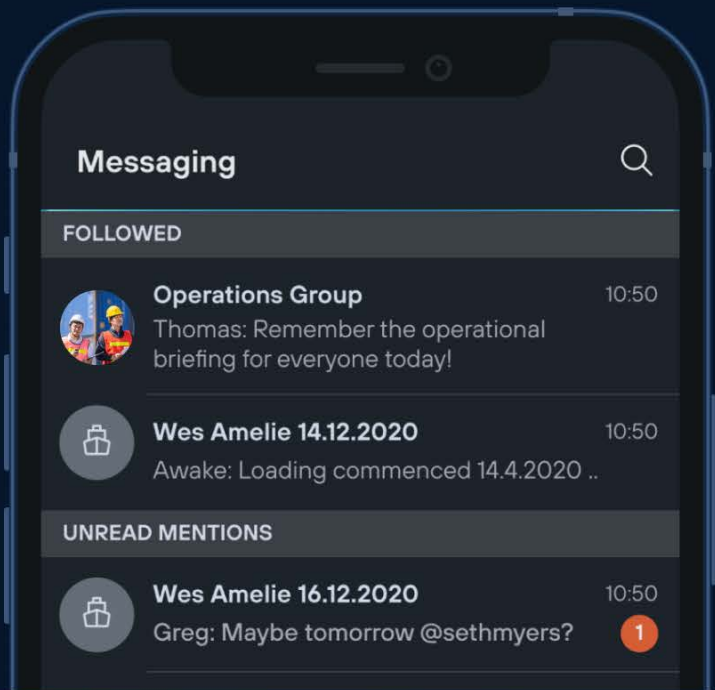
cost savings with reduced lead time

The numbers represent annual saving in revenue assuming 500 ships per year with an average arrival delay per ship of 3 hours.

Smart Port Features

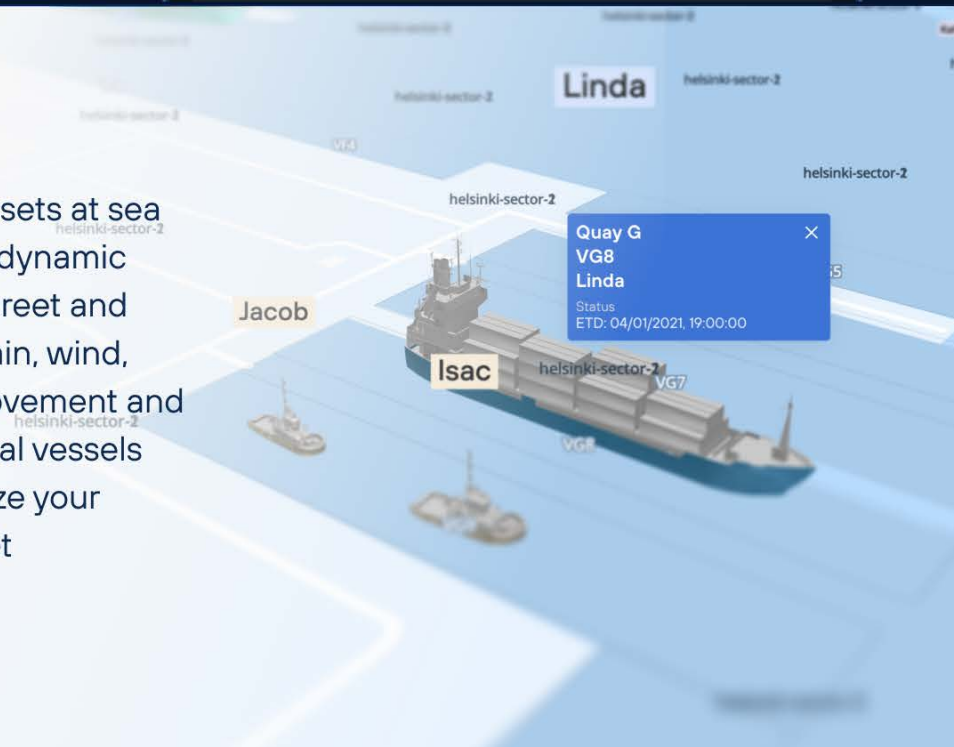
Inclusive Communication

Communicate and share information in real-time with all port actors. Messages can be exchanged between all relevant participants and in port call specific communication channels with inclusive and high priority messages.



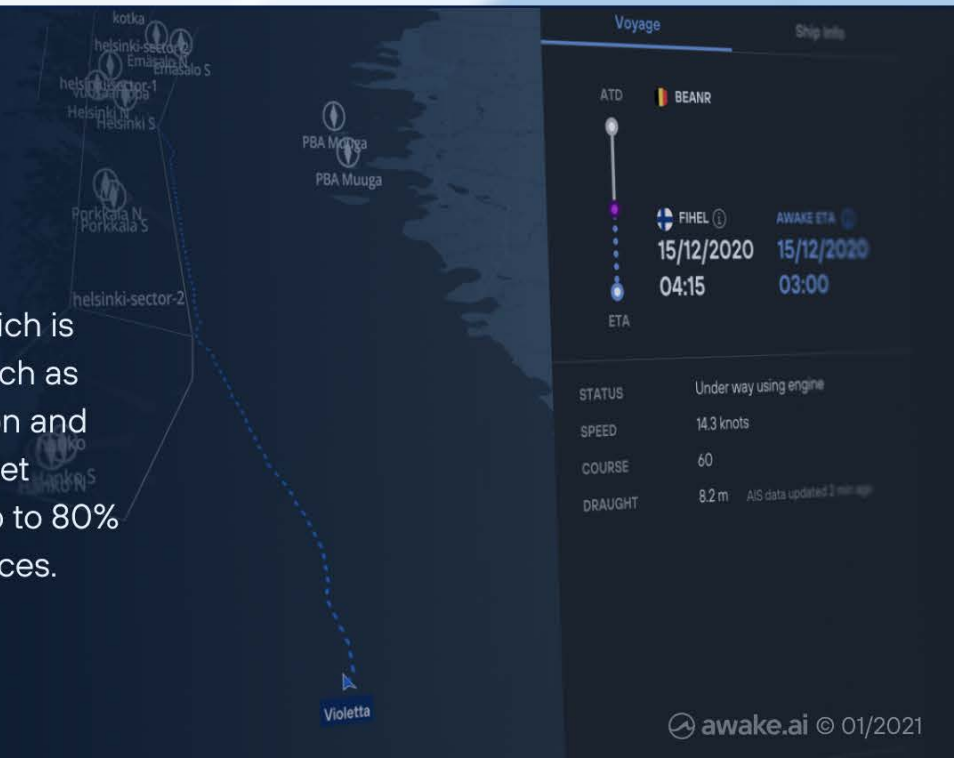
Real-time Maps

Monitor your port operations and assets at sea with real-time maps, enriched with dynamic content. Enjoy 3D-views, satellite, street and seachart with real-time layers like rain, wind, wave and more. View exact fleet movement and accurate ETAs and ETDs of individual vessels on the map. Track, trace and optimize your cargo flow, and even share your fleet information with your stakeholders.



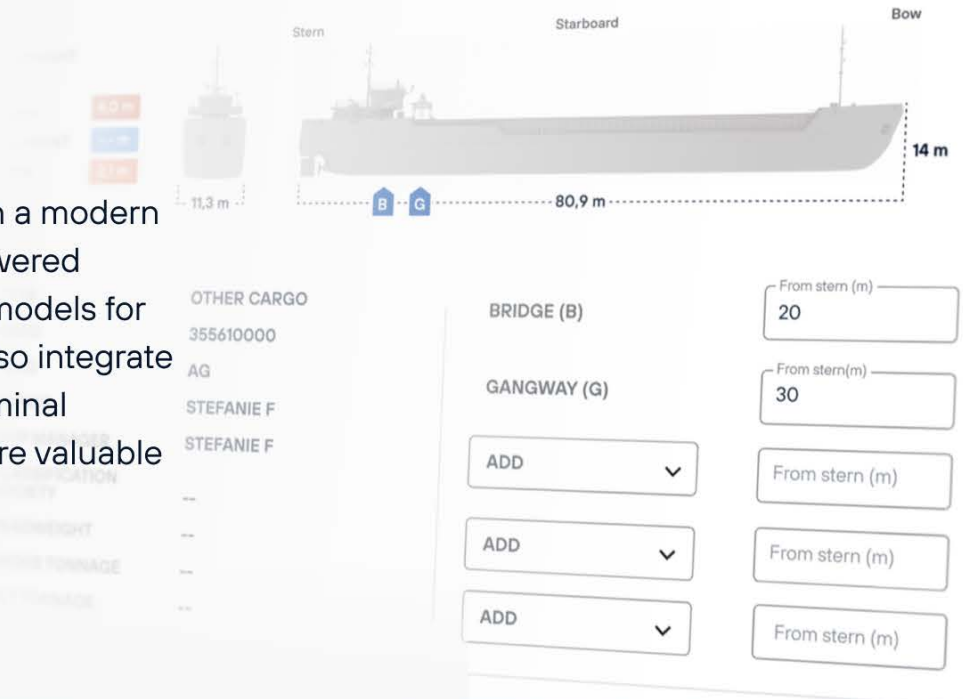
Accurate AI Predictions

At the core of our operations is a comprehensive Awake Platform which is combining multiple data sources such as weather forecasts, vessel information and historical data. As a result, you will get reliable ETA and ETD predictions up to 80% more accurate than from other sources.



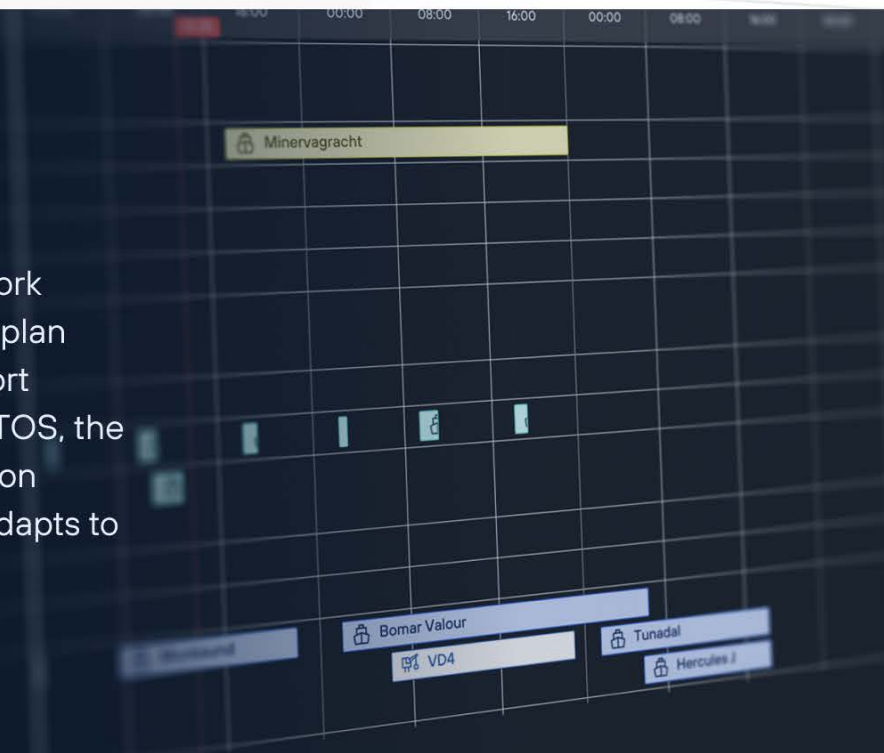
Berth Planning

Plan and optimize your berth with a modern user interface. You will get AI-powered voyage predictions with built-in models for various types of ports. You can also integrate berth planner to any existing Terminal Operating System (TOS) and share valuable data for better decision-making.



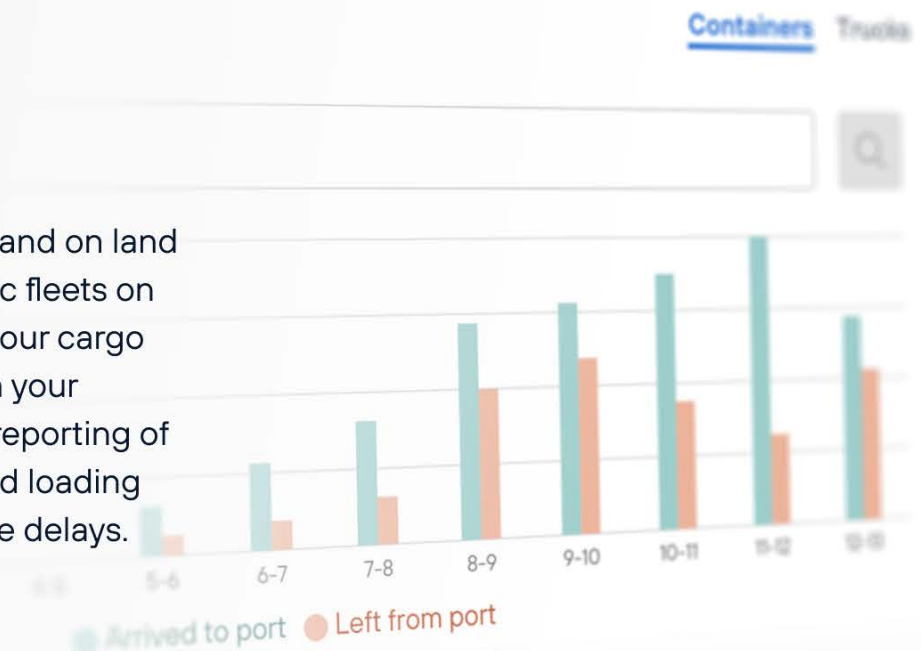
Resource and Task Manager

Centralize the planning of your entire work shifts and assignment of tasks. You can plan and manage the use of customizable port resources. When integrated to existing TOS, the resource management and task allocation becomes even more effective when it adapts to plan changes in real-time.



Transparent Cargo Operations

Monitor your cargo flow at sea, port and on land with your own customizable dynamic fleets on the map. Track, trace and optimize your cargo flow, and even share your fleets with your stakeholders. You will get real-time reporting of your cargo operations with estimated loading start and finish times, and of possible delays.



Smart Security by Awake.AI

High Availability and Fault tolerant hosted solution

Security by Design approach enforced in building hosted services

Automated Real Time Security Threat detection service is running 24/7 to keep your data safe

Multiple separated and automated environments for ensuring quality and reliable roll-out of new software releases

The Awake Platform includes state-of-the-art security governance and security operation models and procedures that support managing cyber threats.

We are utilizing AWS as certifiable infrastructure provider for our products and services. We are also taking proactive measures in fortifying the parts that fall under our responsibility.

At Awake security is built from the ground up and as a systematic design principle. Security is present at every step in the products lifecycle, from planning to operation. As we live from data and analytics we understand how crucial it is to keep data safe and secure. We work diligently to uphold this promise.

Sustainable and Intelligent Maritime Logistics

Environmental sustainability has become a serious concern for everyone, and thus one of the key transitional drivers for the entire maritime transport business. In recent years, companies in the global maritime transport business have been constantly required to adjust their strategies to comply with more stringent environmental regulations.

By optimizing the logistics chain cargo flow waste is reduced and capacity utilization increased by

775 Mt

(million metric tons) of CO₂ reduced by 2030*

Equals to...



...200 coal plants...



...or 164 million cars for one year.

The cost of producing the optimization service is minimal compared to the possible savings

-157 €

per metric ton of CO₂ reduced*

Over 4 times cost-efficient CO₂ reduction...



...than wind power...



...and twice than solar.

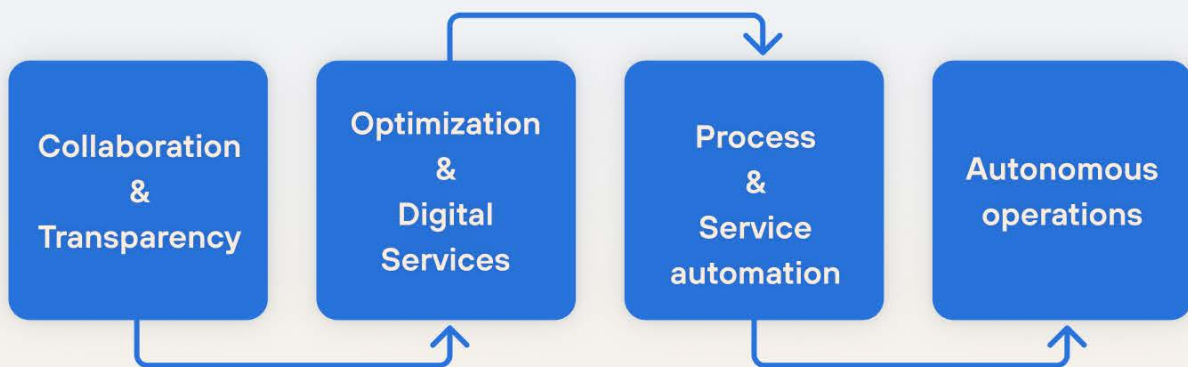
Considering these changes, ports and shipping actors must put significant effort into establishing greater digital competence. According to Journal of Cleaner Production Vol. 254 research shows that through investing in digitalization in the maritime transport business, it is possible not only to reduce fuel and energy consumption and improve overall efficiency, but also to improve profitability when integrating digital technologies into entire operations.

The companies that are the most enthusiastic about establishing greater digital competence are gaining a significant advantage in the ever-changing landscape of regulations and performance requirements.

Redefining the future of maritime logistics business

In the near-term future, the entire maritime logistics business, its infrastructure and functions will go through sweeping digital transformation. Aside from the initiated collaboration, more digital services and automation of processes will be introduced. The business will have to become ever more environmentally responsible as more mandatory environmental reporting will be enabled.

For the whole maritime shipping industry to stay relevant in the future, it needs to start offering better customer service in all dimensions by introducing digital services throughout the value chain. Companies who embrace this transformation will achieve the benefits first.



We will help you on this Journey!

To help this transformation, Awake.AI has implemented the first ship-to-port digital interfaces. We serve the market with universal information exchange so that not everyone needs to develop the interfaces and predictions themselves but get them from us as a service. This way we want to ensure that even small ports can enable digitalization without upfront investment. We are leading this transition and will help you in each step.



How to start?

Contact sales@awake.ai now and become a state-of-the-art digital actor in maritime logistics. Our agile team will introduce the solution, configure your home port ready and calculate the potential savings in just few weeks time.

About Awake.AI

Awake.AI is a frontrunner in autonomous future in the maritime domain, empowering smart port operations and optimizing the maritime logistics for efficiency, cost savings, and reducing the emissions. With our help, autonomous ships, trucks, and drones around the world will carry cargo through ports.

Awake.AI has developed the platform with the data standards, APIs, data analytics, integrations and cloud services that are needed to enable collaborative planning throughout the supply chain.



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