

OCIANA®: World's First AI Powered Collaborative Optimisation Solution

OCIANA's Collaborative Optimisation Solution will connect ships, pilotage authorities and ports to support Green Digital Shipping Corridors and environmental protection thus promoting the overall efficiency of the maritime supply chain.

In partnership with [Canada Steamship Lines](#), [Montreal Port Authority](#), [Laurentian Pilotage Authority](#) and [Clear Seas](#), OCIANA's latest capability will streamline vessel berthing through AI Predictive Analytics to support Just-in-Time Arrivals (JIT).



Relevant UN SDGs

Key Objectives of OCIANA's Collaborative Optimisation Solution

To allow ports, pilotage, and shipping companies to exchange near real-time data via a common platform, enabling digital planning and operational optimisation:



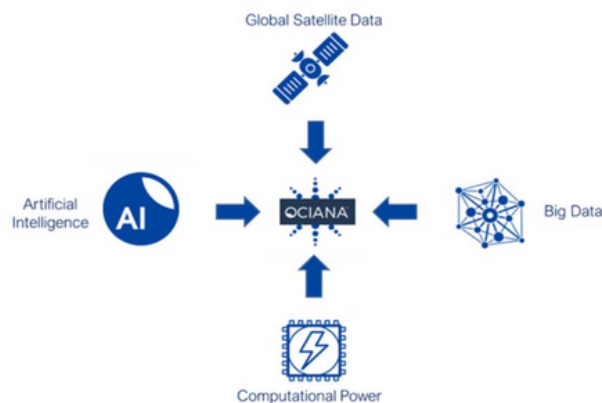
OCIANA® will be accessible to all maritime stakeholders globally. Benefits include:

- real-time performance monitoring of global emissions
- information on vessel movements and vessel berthing delays in real-time
- enhanced planning and coordination as it pertains to berthing windows
- decision-making intelligence for dynamic environments
- support for route optimisation

JIT Arrivals with OCIANA® will:

- enable ships to optimise their steaming speed, thereby lowering fuel consumption, and reducing emissions
- facilitate increased vessel productivity based on factors such as berth availability, vessel size and more accurate depth information
- minimize time at anchorage and therefore reducing congestion in the port area
- maximise berth occupancy
- optimize human resource schedules through improved coordination
- enhance intermodal coordination
- reduce delays to maritime stakeholders

OCIANA Platform



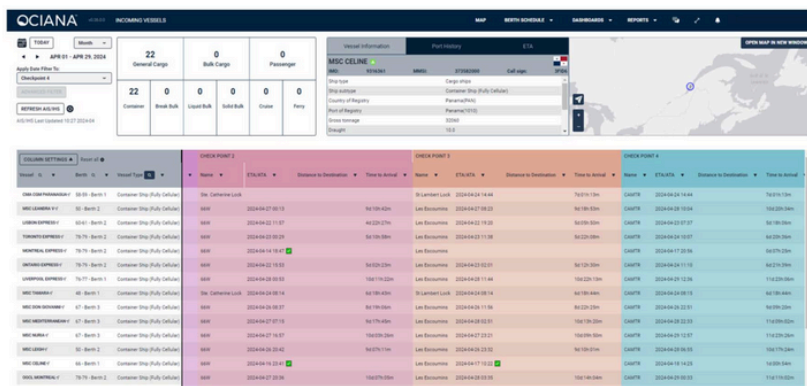
OCIANA® incorporates the latest developments in Artificial Intelligence and Big Data analytics to improve maritime situational awareness and provide real-time decision-making intelligence:

Multi-Source Data Analytics:

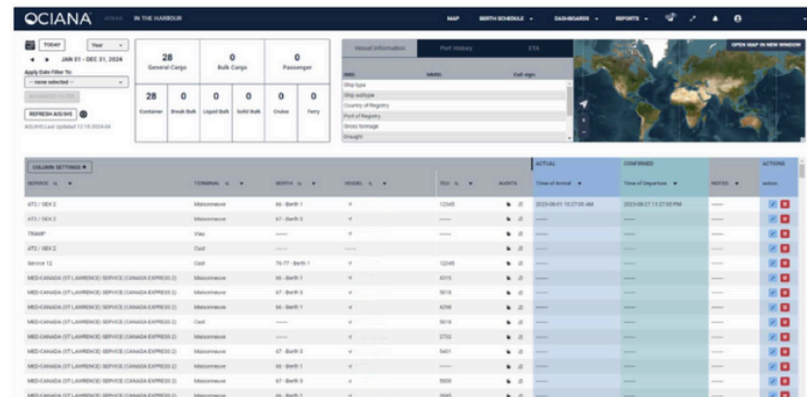
- To ingest a wide range of data sources including global AIS data, an array of satellite data, and weather data; OCIANA® also ingests IoT data
- Spatially and temporally correlates the data and employs AI algorithms
- Output from the AI/ML trained models can be accessed through the online application or API

Partner Communication:

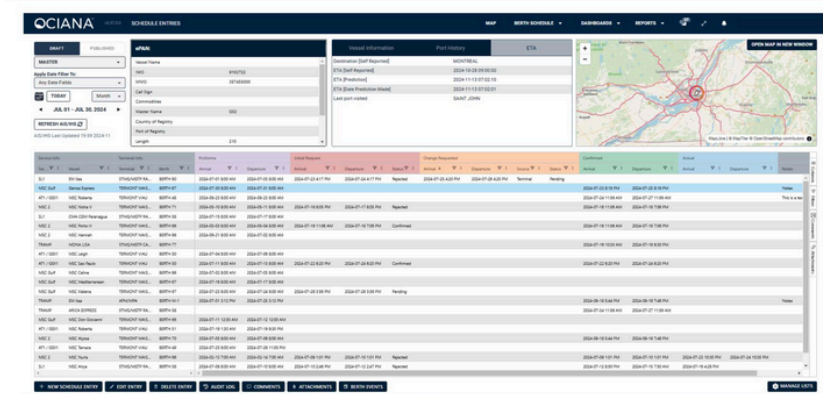
- An embedded communications channel enables multiple users to share information in real time
- Advanced chat and collaboration tools



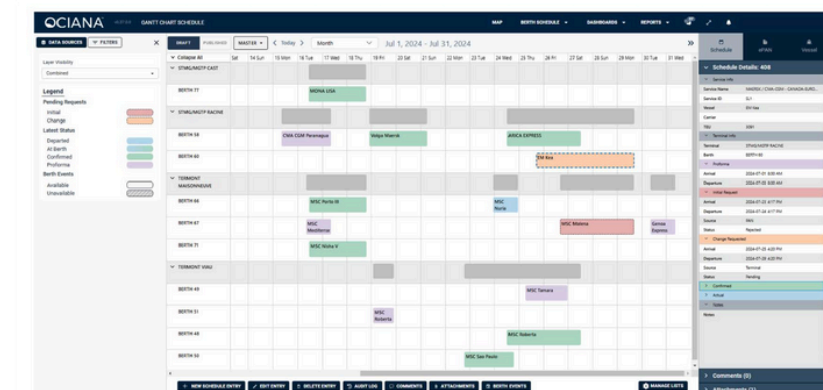
Incoming Vessels - Leveraging OCIANA's ETA Prediction and Intelligent Geofences



In the Harbour - Leveraging OCIANA's Port Analytics



Schedule Entries - Leveraging OCIANA's Liner Service Automation



Gantt Chart - Leveraging OCIANA's Predictive Analytics

For more information, contact us at: sales@gsts.ca