

OCIANA® provides the intelligence layer that transforms fragmented data into coordinated, real-time decision-making.

By understanding behaviour, predicting disruptions and enabling action, we help ports act faster and operate smarter.

About OCIANA®

OCIANA® is an AI-powered maritime intelligence platform that supports informed decision-making across defence, security, and logistics operations. It integrates operational, environmental, vessel, and cargo data to deliver real-time visibility, predictive insight, and risk awareness. By supporting both routine operations and emerging disruptions, OCIANA® enhances planning, coordination, and timely response in complex maritime environments.

CANADA

329 De la Commune St W,
Montreal, QC H2Y 2E2

1 Research Dr, Dartmouth,
NS B2Y 4M9

911 Yates St,
Victoria, BC V8V 4X3

www.gsts.ca

UNITED KINGDOM

Fortis House, Cothey Way,
Ryde PO33 1QT

GSTS®

OCIANA®

Boost Port Operations and Efficiency

By augmenting existing systems with AI and the ability to collaborate with stakeholders, OCIANA® gives ports access to a layer of intelligence that improves turnaround times, reduces time at anchorage, improves schedule reliability, and supports compliance with environmental regulations.

Navigating a Dynamic Maritime Environment

Multiple port stakeholders, changing schedules, fragmented data and unpredictable disruptions make efficient port calls harder than ever.

- !

Congestion due to heavy vessel traffic, compounded by weather and regulatory hurdles, leads to delays and inefficiencies
- !

Weather disruptions impact vessel routing, berthing and discharge schedules
- !

Data fragmentation slows coordination between shipping lines, terminals and maritime authorities
- !

Differing regulatory frameworks and documentation standards across ports increase operational complexity
- !

Manual processes reduce operational speed and accuracy

Addressing these challenges requires real-time data, better connectivity and richer collaboration.

OCIANA Approach

OCIANA® augments existing port and voyage management systems with real-time data, predictive insights and intelligent coordination for faster, safer and more efficient port operations without replacing what’s already in place.

- JIT arrivals and port call optimization:** Synchronizes vessel speed and port readiness to reduce idle time, fuel use and delays
- Congestion and bottleneck mitigation:** Identifies and alleviates port congestion with dynamic insights on schedules and coordination capabilities
- Data-driven dashboards:** Provide unified, real-time and historic analytics that monitor performance and utilization
- Predictive port arrivals:** Uses AI and real-time data to forecast arrival times more accurately and enable advanced planning
- Emissions management:** Monitors and reduces emissions through data-backed route planning, speed optimization and efficient port operations
- Early warning and security analytics:** Detects risks, disruptions and anomalies early to bolster security and resilience

What This Means for Port Operations

- Faster turnaround and fewer delays**
Optimized arrivals and reduced congestion keep vessels moving, improving asset utilization and overall port efficiency.
- Advanced planning and reduced emissions**
Better coordination and predictive insights cut fuel consumption, minimize idle time, and support sustainability goals.
- Greater visibility and collaboration**
Real-time data and live alerts enable smarter decisions, reduce risk and improve coordination across all stakeholders.
- More resilient and reliable operations**
Proactive insights and early warnings help ports anticipate disruptions, maintain continuity and improve service reliability.

Seamless Integration with Existing Port Systems

OCIANA® enhances port operations by integrating with your existing systems —bringing new data, insights and intelligence without disruption or replacement.

- ✓

No rip-and-replace: Delivers real-time data and insights directly into the systems you already use. For organizations that do not use API, data exports and bespoke reports are provided
- ✓

Enhances existing data: Combines port, vessel and infrastructure inputs for a more complete operational picture
- ✓

Minimal training required: Teams continue using familiar tools, now with smarter, data-driven insights
- ✓

Secure by design: Sensitive data remains protected and controlled

