

OneOcean



# Voyage Performance & Optimisation

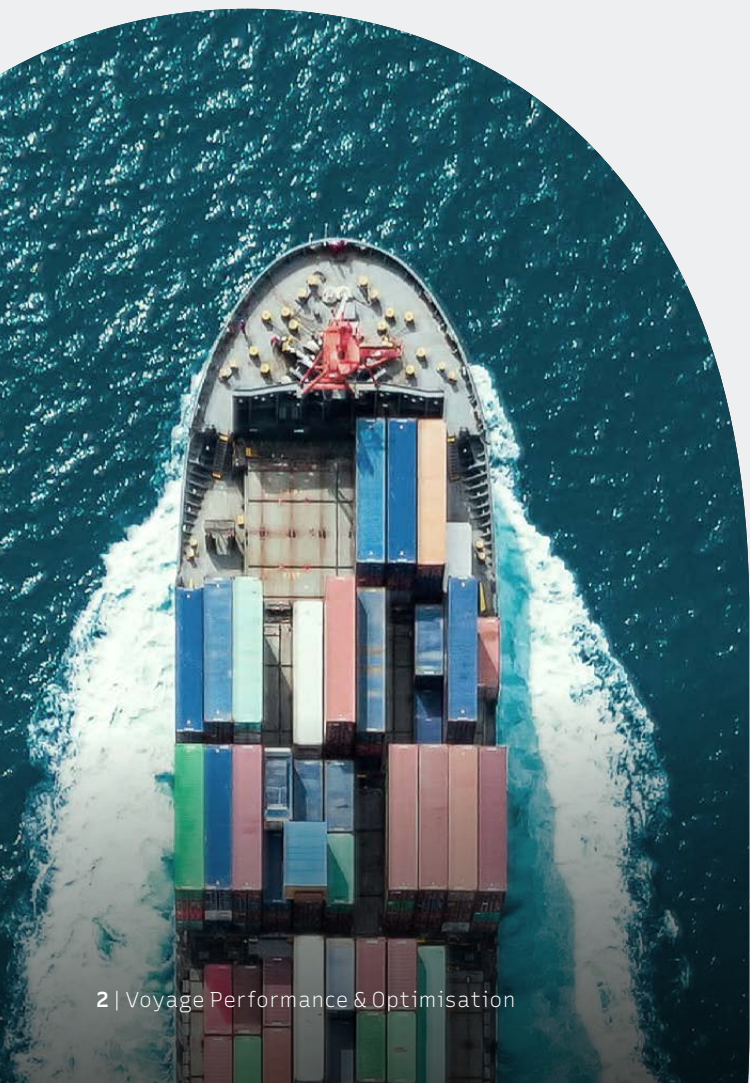
How OneOcean's Voyage Performance & Optimisation solution will help you future-proof your strategy and operations.

# Solving tomorrow's challenges today

In today's maritime environment, managing rising commercial pressures in smart and sustainable ways is a competitive advantage. Knowing how your voyages perform is critical to staying both competitive and compliant.

Fuel has always been the biggest operating cost in shipping, and the most direct lever for improving commercial outcomes. That lever, however, has become harder to pull. Stricter environmental regulations on fuel use and emissions are adding pressure, making it more difficult to balance compliance with profitability.

The European Union has already implemented mandatory monitoring and reporting of greenhouse gas (GHG) intensity for energy used on board. As renewable and low-carbon fuels are adopted across the industry, shipowners, managers, and operators face stricter obligations and financial penalties for non-compliance.







Beyond regulation, operational complexity is increasing. Climate change is driving more extreme weather, while piracy and geopolitical volatility add risk. At the same time, fragmented systems and stretched resources make it difficult to generate the timely, accurate insights needed to operate safely and efficiently.

In this environment, static voyage planning tools are no longer enough. They cannot adapt to changing conditions in real time, leaving crews to make decisions based on incomplete data and exposing operations to inefficiency and risk. Actionable, precise insights are now essential.

Digital solutions represent a reliable and accessible way to make a significant impact on operational success and mitigate exposure to environmental regulations.





# The data differential

OneOcean's Voyage Performance & Optimisation solution helps maritime businesses minimise emissions exposure, optimise commercial outcomes, and ensure vessel, crew, and cargo safety.

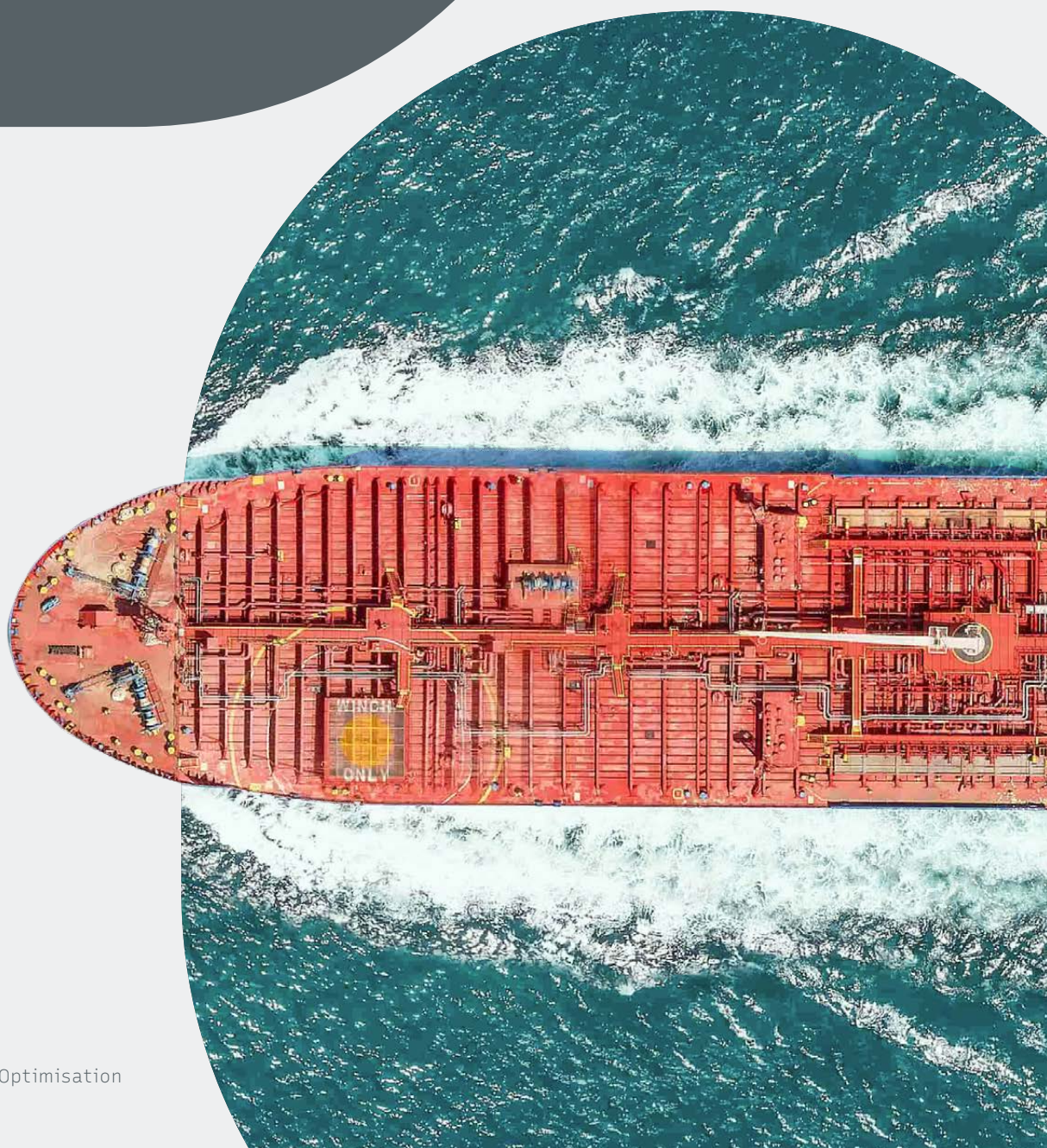
Using the Voyage Performance & Optimisation solution, onshore teams gain real-time access to vessel-specific data, ensuring situational awareness and alignment with crews at sea. Fleet-wide visibility enhances communication and collaboration, while data-driven insights support proactive risk management, optimised voyage performance, and informed decision-making to improve commercial outcomes.





Supported by a dedicated team of maritime experts, the solution enables onboard and ashore professionals to evaluate scenarios, anticipate disruptions, and plan voyages efficiently. It also helps ship managers, owners, operators, and charterers take control of regulatory exposure, ensuring compliance before, during, and after a voyage, with verified reporting through Lloyd's Register (LR).

With nearly 20 years of expertise in ship performance modelling and route optimisation, our Voyage Performance & Optimisation solution turns complex data into actionable insights, helping maritime leaders make confident decisions, improve operational efficiency, and future-proof their operations.



# Benefits of the Voyage Performance & Optimisation solution

Optimise your voyages to enhance commercial outcomes, reduce regulatory exposure, and improve overall performance and profitability.

## Improve efficiency

Improve your vessel's safety, security, and efficiency by responding quickly to unexpected changes such as extreme weather and route congestion.

1

## Optimise profitability

Improve voyage performance with optimised routing and use iterative insights and 24/7 expert advice to optimise current and future voyages for improved profitability.

3

## Improve decision-making

Gain full visibility across the entire voyage lifecycle to support the development of both emissions and voyage optimisation strategies.

5

## Reduce emissions

Manage and reduce your vessel's environmental footprint and fuel costs, reduce exposure to environmental regulations, and avoid financial penalties.

2

## Manage risk

Manage your charter party risk and optimise claim outcomes by monitoring vessel performance against charter party terms, supported by expert advice.

4

## Improve collaboration

Enhance coordination and reduce silos through better stakeholder collaboration and data accuracy.

6



Our Voyage Performance & Optimisation solution comprises a comprehensive suite of tools, including both Voyage Optimisation and Emissions Control tools.

# Voyage Optimisation

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The Voyage Optimisation tool bridges the gap between shoreside planning and at-sea execution. With continuous support before, during, and after every voyage, vessels gain real-time expert advice to stay competitive in a fast-moving maritime landscape.

Supported 24/7 by a team of maritime experts led by former Master Mariners, this tool combines deep industry knowledge with advanced technology to deliver enhanced commercial outcomes, improved situational awareness, and data-driven decisions.

The Voyage Optimisation tool leverages precise vessel modelling, multi-objective routing, and 3D motion simulation to improve safety, security, and efficiency across both current and future voyages.

Trusted charter party reports support risk management and claims, while just-in-time arrivals and 24/7 route advice reduce delays, costs, and environmental impact through optimal routing.



# Emissions Control

OneOcean's Emissions Control tool helps you take a holistic approach to managing your FuelEU and EU ETS exposure.

It leverages our extensive global experience in vessel routing and the industry's best vessel models, weather forecasts, and route optimisation engine to build a strong emissions strategy.

Different fuel types can be easily simulated per voyage to support planning, including assessing the potential financial benefits of banking, borrowing, and pooling. The tool monitors risk through forecasting future exposure and provides insights to adjust fuel strategies, while verifying FuelEU and EU ETS compliance seamlessly via integration with LR Emissions Verifier.

Emissions Control is a comprehensive tool delivering actionable insights for efficient fuel strategies, regulatory compliance, and penalty mitigation.



## Before a voyage

Manage your GHG intensity and EUA exposure by simulating different fuel types per voyage.

## During a voyage

Get a clear view of your realised GHG intensity and compliance balance with accurate fuel consumption data.

## After a voyage

Balance your compliance costs, request voyage reports from LR and plan ahead by simulating pooling options.



# Find out more about **Voyage Performance & Optimisation**

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See further

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