



## DIGITAL SOLUTIONS

# NAVIGATOR INSIGHT

## EU-MRV ready reporting solution ensuring data quality for unique fleet performance analysis

The quality of operational data is essential for fleet performance analysis and is a challenge without an intuitive system implemented onboard with proper plausibility checks. Navigator Insight brings traditional ship-to-shore reporting systems into one user-friendly solution that complies with the EU-MRV regulation.

Improving operational performance of your fleet, measured in fuel consumption, total operating costs and environmental footprint, is only possible based on quality data and analysis.

High quality voyage data management is also essential for all required reporting for to charterers, cargo owners, NGOs such as ESI or CCWG and for the EU's MRV scheme (monitoring, reporting and verification of emissions) as well as the upcoming IMO DCS (data collection system for fuel oil consumption of ships).

From 1 January 2018 the EU-MRV regulation requires ship owners and operators to annually monitor, report and verify CO<sub>2</sub> emissions for vessels larger than 5,000 gross tonnage (GT) calling at any EU port. From 1 January 2019, all seagoing vessels larger than 5,000 (GT) must comply with the requirements for reporting according to the IMO DCS scheme.

### Ensuring data quality

DNV GL-Software has developed the Navigator Insight system to help ship owners and managers to ensure data quality for unique fleet performance analysis. The system provides an onboard module for structured and harmonized data reporting with intelligent validation that instantaneously alerts officers of potential reporting errors or implausible data. The event-based reports are logged on the onshore server for further evaluation. All required data can be sent automatically to various stakeholders, such as the operation department, technical and fleet management or third parties such as agents, charterers, etc.

### Unique fleet performance analysis

The data collected onboard in Navigator Insight can easily be presented in DNV GL's performance management portal, ECO Insight. ECO Insight provides comprehensive performance dashboards, benchmarks and industry data such as AIS, fuel quality or weather data. Combined, you have all the information for industry best practice performance management.

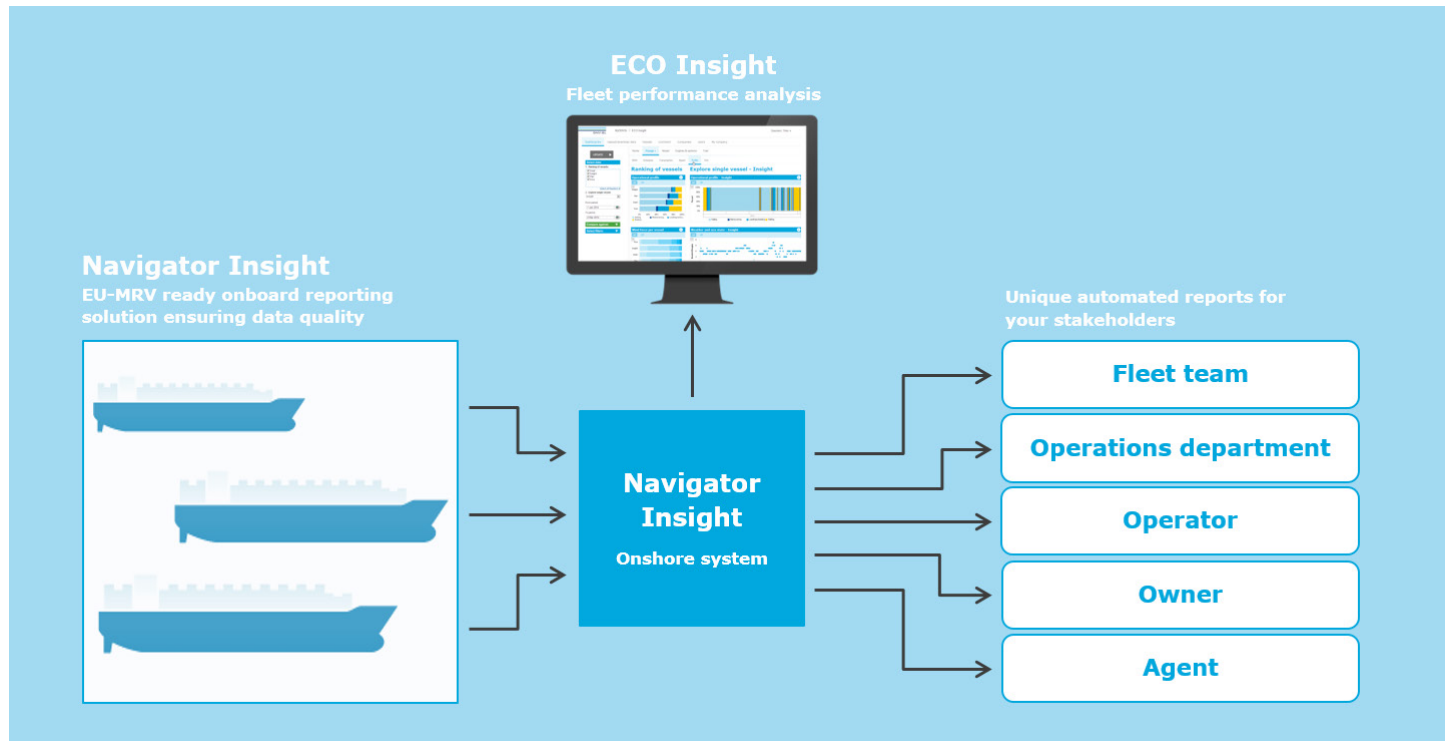
### Report your voyage data and be EU-MRV ready:

- Use the core set of voyage reports from departure to arrival with all relevant and industry standard parameters from both nautical and technical officers
- Include a fully integrated bunkering and ROB management to consume only what has been bunkered before
- Improve data integrity and quality with more than 450 ship-specific plausibility checks
- Allow for an easy and fast fleetwide implementation

### KEY BENEFITS OF NAVIGATOR INSIGHT

- Complies with EU-MRV requirements
- Comprehensive plausibility checking and data quality/consistency assurance against ship-specific technical data
- Onshore system collects data for the entire fleet in operational reports (log abstracts, noon, departure and arrival, bunker, ballast water operations, disposals and many more) and management reports, for example EEOI for fleets
- Allows comprehensive fleet performance monitoring with in-depth analysis
- All information is structured for re-use in any type of analysis or reporting to stakeholders
- Supports environmental reporting schemes such as CCWG, CSI and ESI

With its intuitive workflow and intelligent data checks, Navigator Insight strikes the balance between completely manual reporting systems, which often suffer from data quality issues, and less controlled automated performance monitoring. It is simple to use without onboard training needs and easy to implement across your fleet. You can further integrate this information into your internal processes.



Navigator Insight and ECO Insight for streamlined reporting and unique operational insight