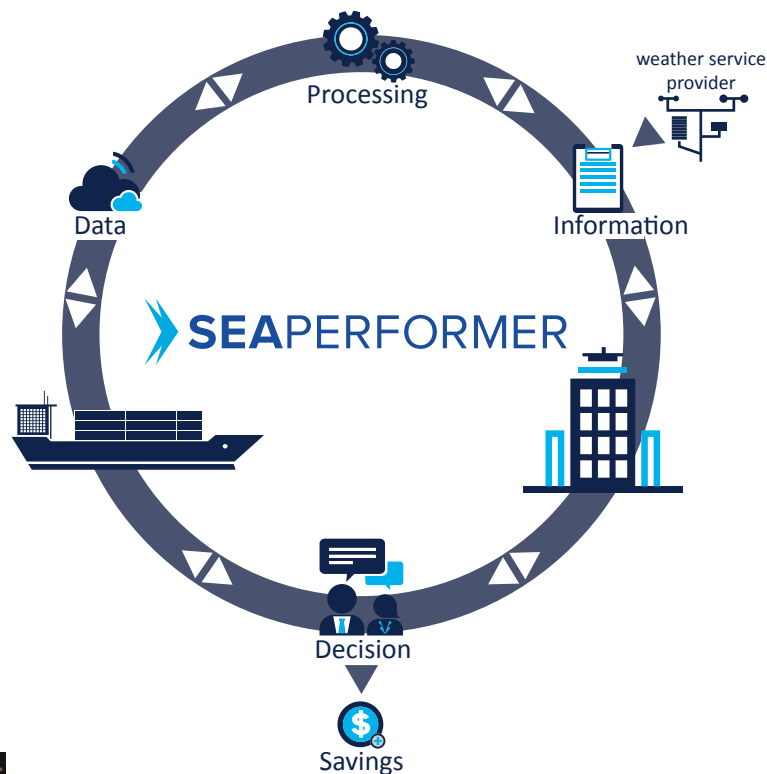


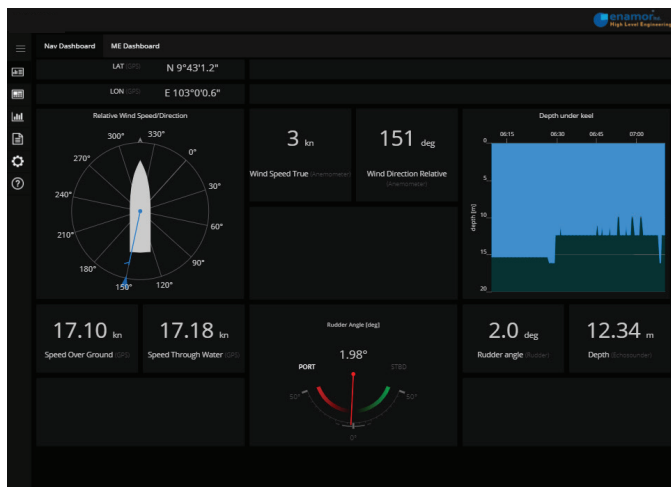
SeaPerformer

SHIP EFFICIENCY MANAGEMENT SYSTEM

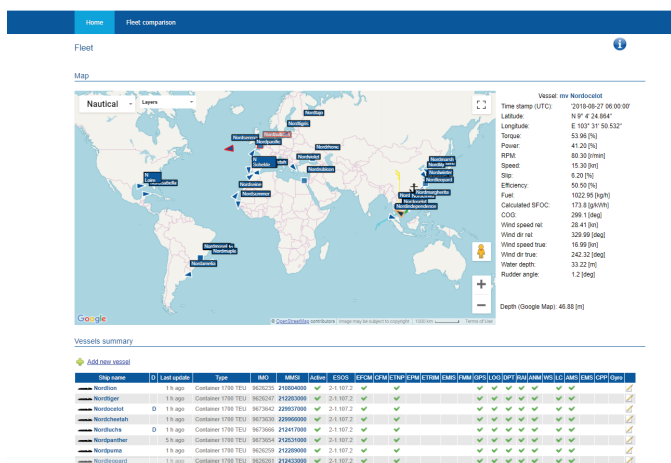
- Performance solution for individual ship and whole fleet
- Bridge between the office and crew
- Handy tool for superintendent
- Data-driven approach to fuel consumption cuts and emissions reduction
- Onboard situation awareness
- Tailor-made system configuration and worldwide product care
- Applicable for newbuild and retrofit projects



Onboard System



Web-Based System



SeaPerformer system is an advanced solution for fleet management and ship operational performance. It collects data from subsystems and dedicated sensors and presents them both onboard and on the web application. A reliable analysis gives decision support to fleet manager and leads to reduction of operational costs and negative impact on the environment by fuel consumption optimisation.

FEATURES:

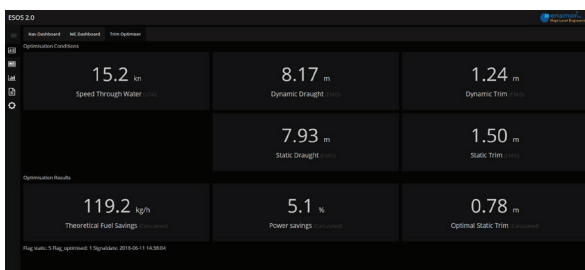
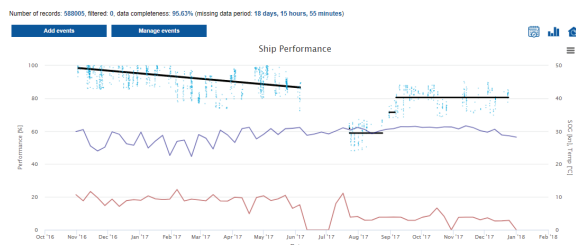
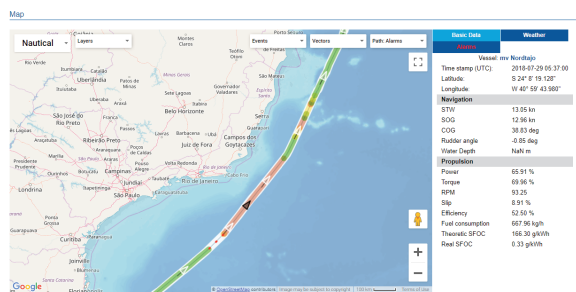
- Onboard access to information via ship LAN
- Secure access to ship data through web application
- Automated, bidirectional and lightweight ship-shore data transfer
- Managing fleet performance by comparison of different ships' parameters in time
- Instantaneous ship performance overview
- Supports customisable views as well as raw data access for variety of sensors and subsystems
- Weather service integration
- Raising crew & office awareness with alarms functionality based on our long-term experience and cooperation with Owners
- EU-MRV, IMO-DCS, noon/trip reporting interface

SeaPerformer

SHIP EFFICIENCY MANAGEMENT SYSTEM

The average values of ETNP parameters for last 24 hours

Torque (t/min)	Power (t/min)	RPM (t/min)	Speed Over Ground (t/min)
20,31 %	11,08 %	44,57 r/min	5,22 km
Slip Speed Over Ground (t/min)	Efficiency (t/min)	Estimated ME Fuel consumption (t/min)	Theoretical SFDC (t/min)
33,65 %	41,84 %	136,82 kg/h	178,39 g/kWh



Ship data access

SeaPerformer integrates all vital signals onboard and provides single interface for visualisation and trending for a crew. Data collected onboard is sent to cloud server and integrated with weather data. Web-based system provides owner with access to the information in clear yet comprehensive manner. System facilitates EU-MRV, IMO-DCS and daily basis reporting.

Situation awareness

Alarm mechanism is implemented to the system. Information on non-optimum conditions and failures is readily available for the crew as well as for owner technical team. Colour indication simplifies detection of abnormal situations. SeaPerformer supports transparency of ship operation and allows superintendent to support crew providing access to data.

Performance analysis

SeaPerformer renders performance analyses of ship systems and hull condition. Onboard data is constantly compared against reference models giving clear indication of performance degradation. Main engine underperformance or hull fouling resulting in excessive fuel consumption can be easily diagnosed. SeaPerformer helps in planning of maintenance operations and evaluates their cost effectiveness.

Performance optimisation

Key performance indicators are computed in real time allowing for detection of non-optimum operation. SeaPerformer evaluates possibilities of improvements and suggests best solution taking into account actual ship operation. Optimisation routines allow for reduction of fuel costs and environmental impact.

“SEAPERFORMER – ship efficiency management system, a tool for reduction of ship’s operation impact on environment” project has received a funding from European Regional Development Fund under the Intelligent Development Operational Program.



European Union
European Regional
Development Fund

