

An aerial photograph of a white cargo ship on a dark blue sea. A semi-circular radar or navigation overlay is centered on the ship, featuring concentric white lines, tick marks, and a scale. The text 'Leading the world in e-NAVIGATION' is superimposed in white, bold, italicized font over the radar overlay.

*Leading the world  
in e-NAVIGATION*

**NAVTOR** 

**Simplifying** tasks,  
**increasing** efficiency  
and **improving** operations  
for navigators, shipowners  
and operators.

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**NAVTOR**

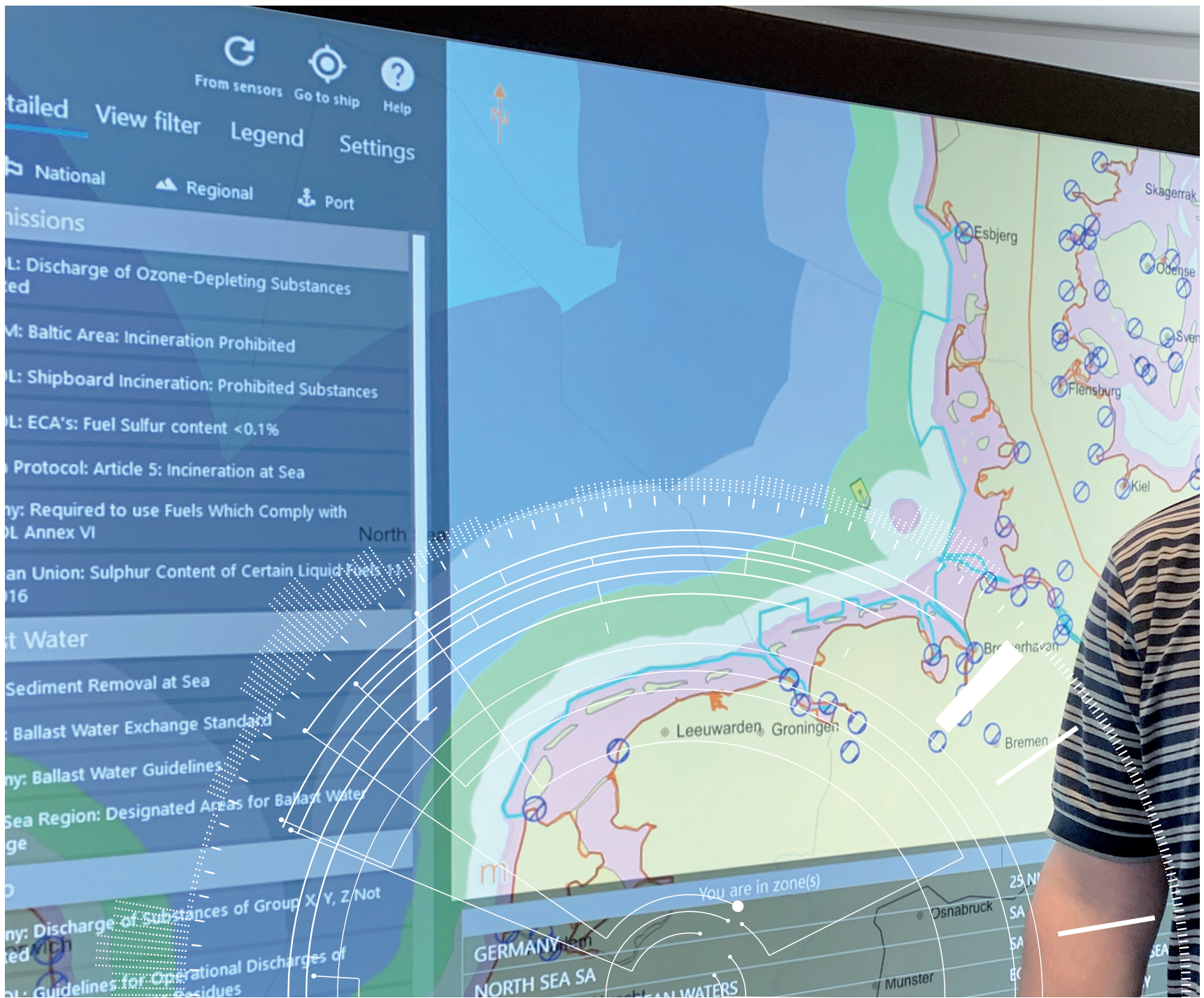


*Leading the world  
in e-Navigation*

**NAVTOR**



*e-Navigation made easy*



## The benefits of innovation

NAVTOR® is a leading force in the provision of innovative e-navigation solutions, and a total supplier of navigational products and services for the maritime sector. Every day we strive to make life easier for navigators, and safer, clearer and more efficient for shipowners, ship managers and operators.

## Charting success

The industry's appreciation of our products, services and expertise has driven spectacular global growth. From a standing start in 2011, the firm now has an established network of subsidiaries and distributors worldwide.



OUR GLOBAL REACH:

OPERATING FROM  
**20 OFFICES**

We are headquartered in Egersund, Norway, with a worldwide network of subsidiaries and distributors.

SUPPLYING  
CUSTOMERS  
IN MORE THAN  
**60 COUNTRIES**

We have a global presence and supply all types of vessels with navigational products and services.

## A team you can trust

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People are at the heart of NAVTOR®. With unrivalled experience, knowledge and understanding - of both navigational technology and the needs of shipping companies - our experts tailor products and services that deliver powerful performance, value and benefits. We are dedicated to e-navigation, dedicated to you.

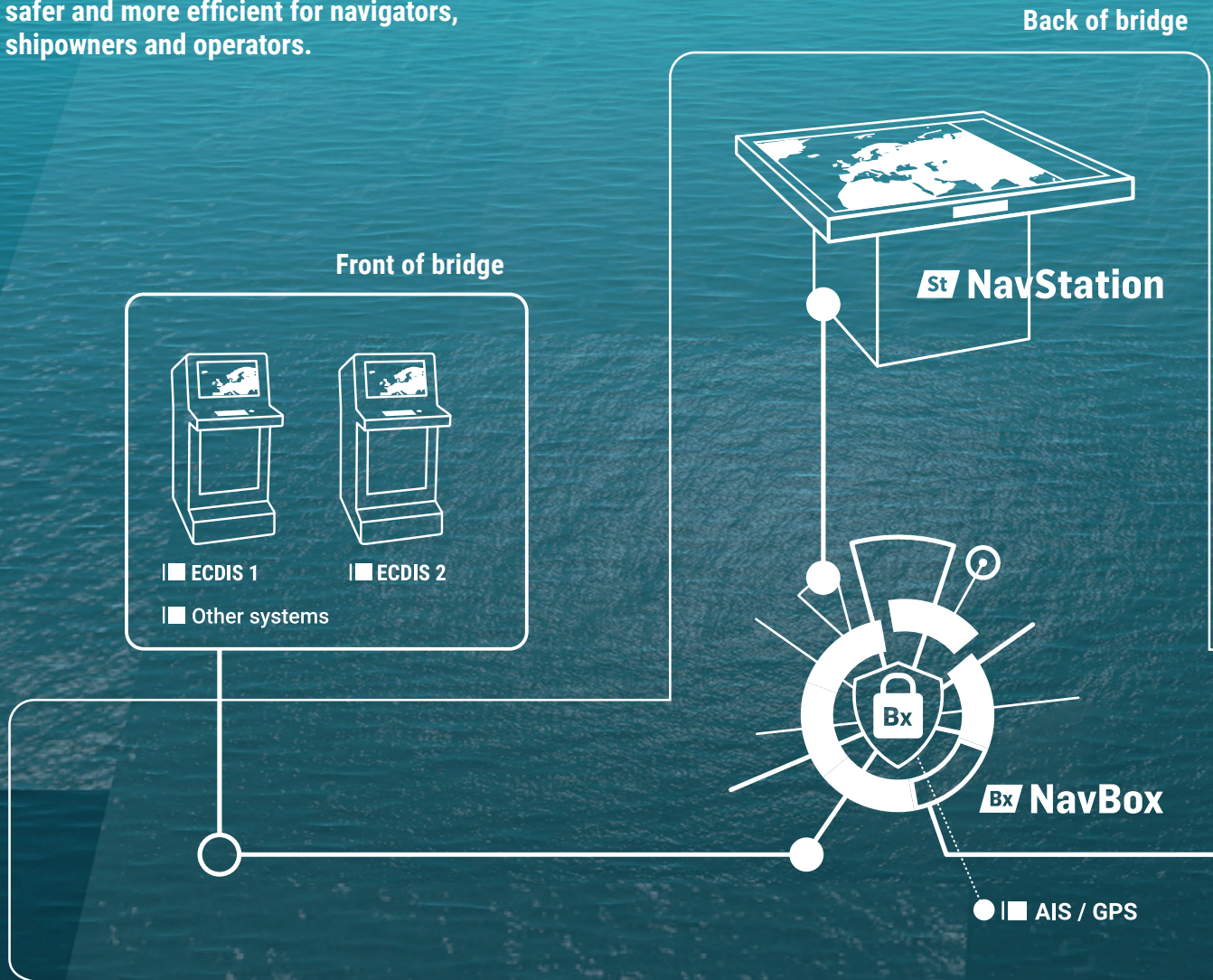
## The way ahead

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Shipping never stands still, and neither does NAVTOR®. We are committed to finding new solutions, technology and ways of working to further enhance performance, user experience and results for our customers. We aim to lead the industry in realising the full potential of e-navigation, staying true to our philosophy of simplifying tasks, increasing efficiency and improving operations.

# e-Navigation Suite

Using the most efficient e-Navigation technology and delivery platforms, NAVTOR® makes life easier, safer and more efficient for navigators, shipowners and operators.



## NavTracker®

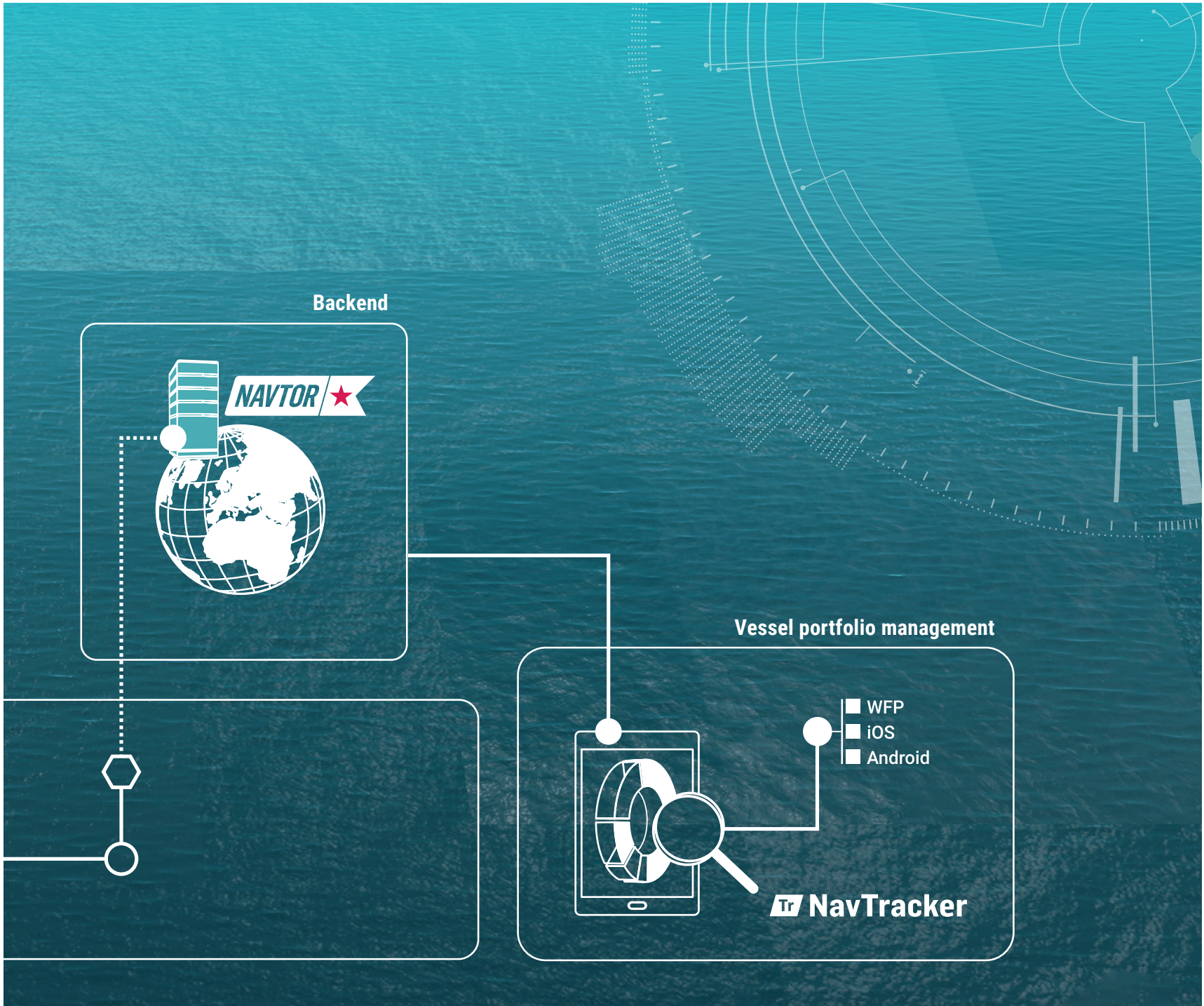
Tr / St / Bx / Sy / Si Page 18

- Calculate and control costs
- Keep track and estimate chart usage
- Update and reports

## NavStation®

Tr / St / Bx / Sy / Si Page 8

- The optimal route planning tool
- Integrates all navigational data in one screen
- Voyage optimization



## NavBox®

Tr / St / **Bx** / Sy / Si Page 16

- Installs as software or hardware
- Automatic download of new navigational data
- Full seamless ENC distribution

## NavSync®

Tr / St / Bx / **Sy** / Si Page 16

- Auto-updates
- Generate reports
- Email reminders
- Works with NavStick®

## NavStick®

Tr / St / Bx / Sy / **Si** Page 16

- Pre-loaded USB
- Load latest ENC to ECDIS
- Global charts and licenses
- Works with NavSync®

# Realising the full potential of e-Navigation

NavStation® puts all critical voyage information in one place – at the fingertips of navigators. It is the ultimate maritime route and passage planning tool.

## St NavStation®

To simplify the passage planning process, NAVTOR has developed NavStation® – a digital planning station for organising a safe, secure and economical voyage.

The NavStation® software can run from any standard computer, or through any sized monitor, including touch screen monitors. Navigators get an intuitive and user-friendly interface, and by integrating all digital navigational data for optimal on-screen presentation, navigators can grab, swipe and manoeuvre “layers” to discover a new e-Navigation reality.

### Optimal integration and presentation

NavStation® includes access to an array of digital e-Navigation information, such as the United Kingdom Hydrographic Office’s ADMIRALTY Digital Publications (ADP) and ADMIRALTY e-Nautical Publications (AENP). NavArea warnings, weather, weather routing and Environmental Regulations modules are incorporated additionally as overlays on top of official ENC charts.

NavStation also includes an e-Publication Reader which provides access to other digital publications. With the Passage Planning module, navigators can effortlessly access and create required documentation while planning vessel voyages.

### Save time and costs

With databases and permits automatically distributed and updated seamlessly through our cyber-secure NavBox®, NavStation® puts the navigator in complete control, delivering everything they need to plan and organise the voyage. Once the plan is complete, the verified and approved routes are transferred to the ECDIS at the front of the bridge and to shore (NavTracker®).

**13. Manoeuvring Assistant**

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**11. Environmental Regulations**

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**9. Weather Routeing**

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**7. e-Publication Reader**

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**5. ADP**

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**3. AIO**

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**1. NavStation Desktop**

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**12. Passage Planning**

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**10. NavArea Warnings**

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**8. Weather Overlay**

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**6. AENP**

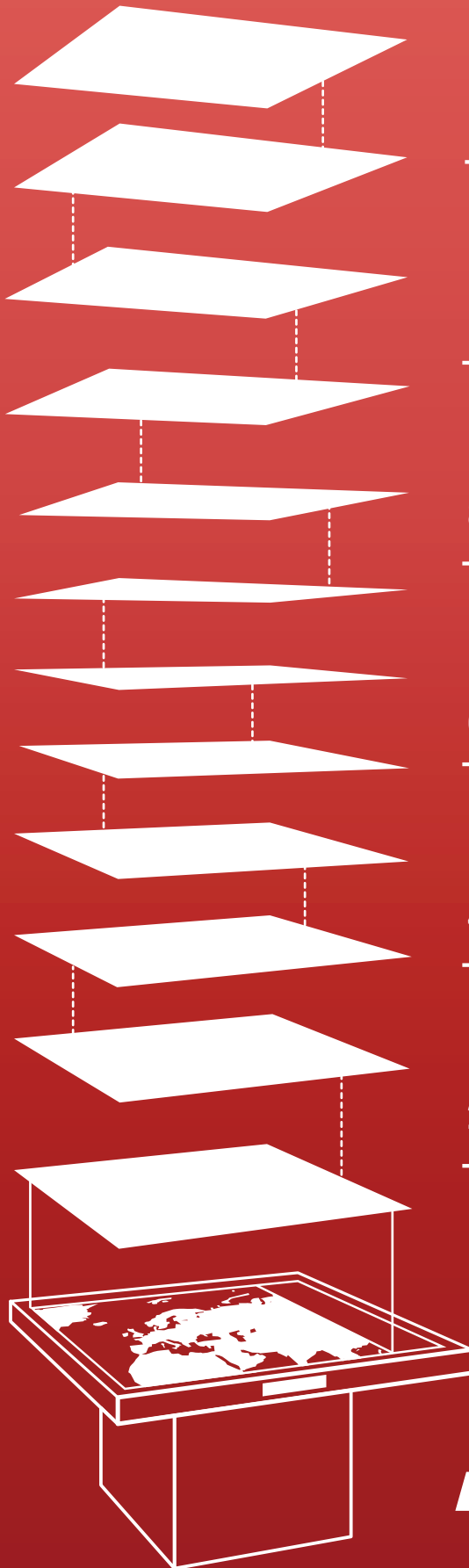
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**4. Route Planning**

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**2. ENC**

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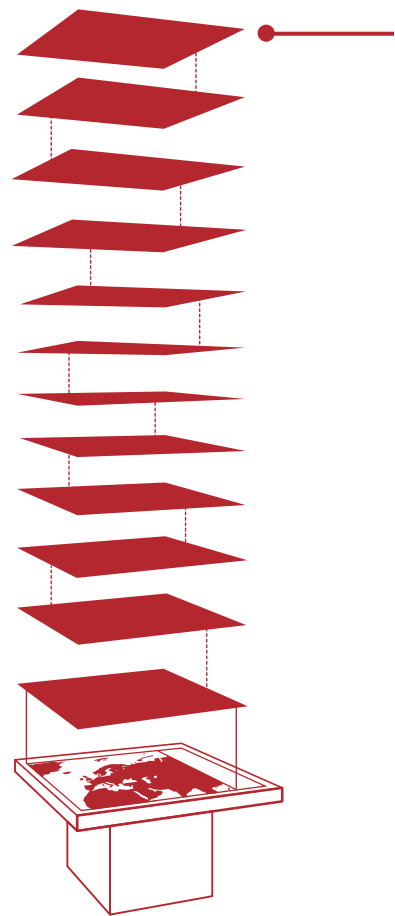
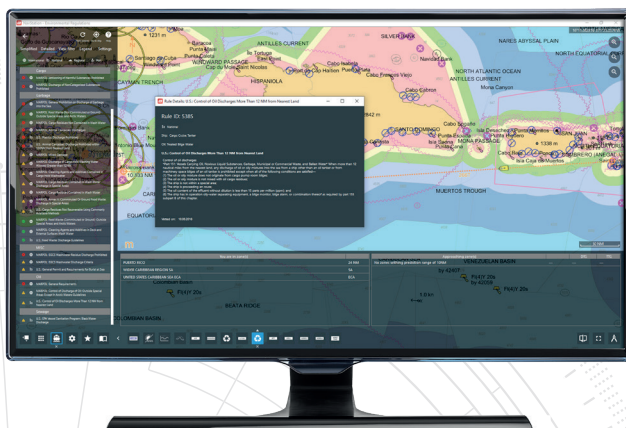
# Environmental Regulations

## Stay compliant at all time

NAVTOR's Environmental Regulations Software Module is a part of the Maritime Route Planning tool NavStation®. The module gives easy access to environmental rules and regulations - all the way from MARPOL down to port level. NAVTOR provides the most comprehensive rules and regulations database available, as a layer on top of the ENC in our voyage planning tool NavStation®.

The navigator can quickly identify all regulations and rules for every single point for the entire route. This is a crucial resource, giving full control of the environmental regulations, helping crews schedule, for example, vessel discharges at safe and timely locations.

The environmental data are seamlessly updated through NAVTOR's e-Navigation Suite® with the award-winning cyber-secure NavBox®, keeping you up to date with the latest regulations.



**St NavStation**



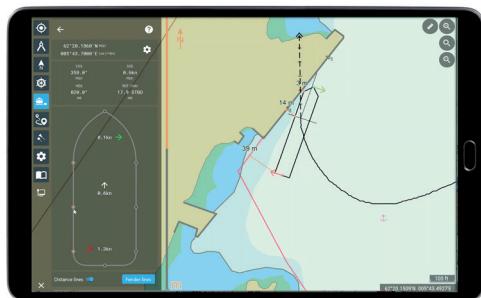
## Manoeuvring Assistant

### Assess risk from real time information

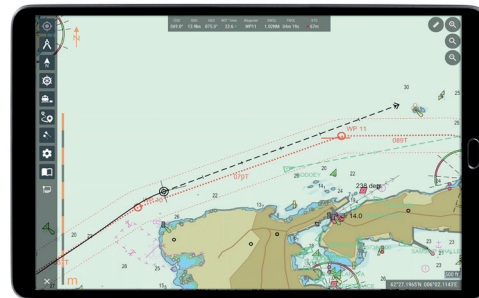
NAVTOR's Manoeuvring Assistant Module is a part of the Maritime Route Planning tool NavStation® and combines routes, sensor data and AIS targets with updated ENC's. The module provides the bridge-team with all necessary information in one module, and allows the team to assess risk empowered by real-time information. When a route can be monitored on ENC's, sensor and AIS data can be received over Wi-Fi allowing any Windows tablet PCs to be used as portable tools to enable safe and optimal maneuvering in heavy traffic and berthing operations (e.g. allowing officers to stand at the bridge wing for full situational awareness).

The system can also be used as a "take me home" solution for an emergency navigational system.

The data are seamlessly updated through NAVTOR's e-Navigation Suite® with the award-winning cyber-secure NavBox®.



Docking mode



Monitoring mode



## e-Publication Reader

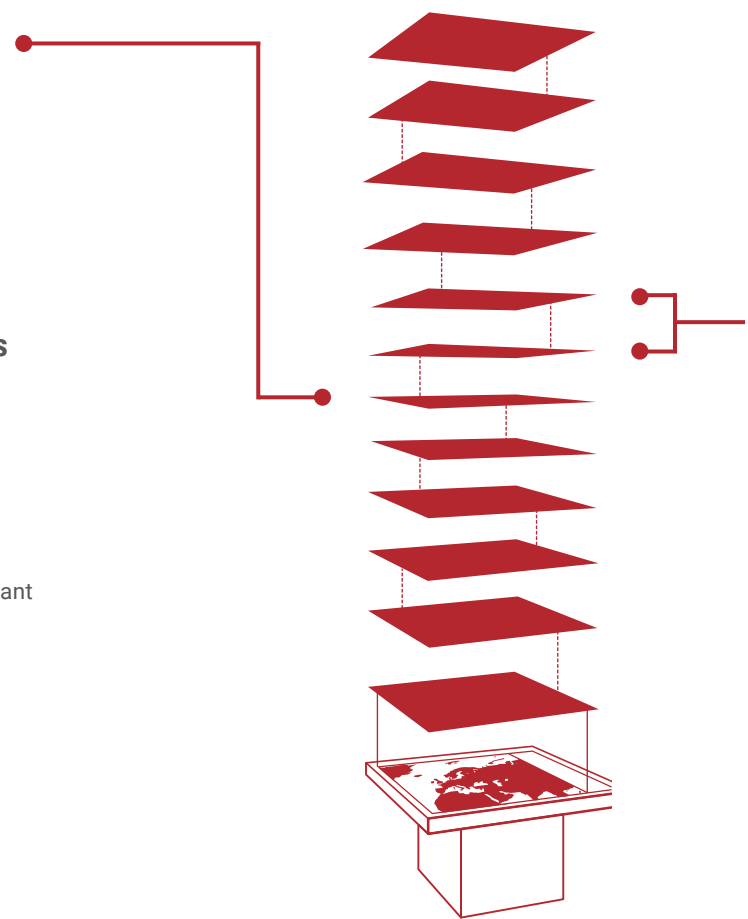
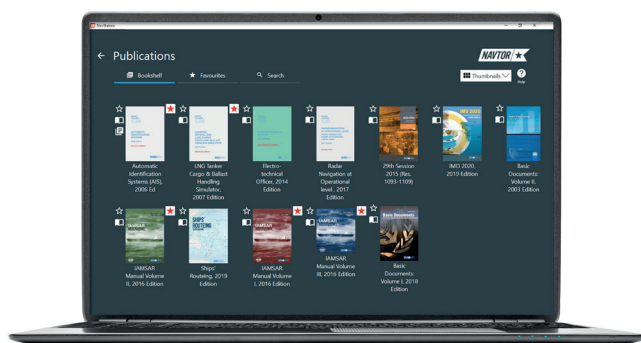
### An onboard digital publication library

**Easy access to navigational and maritime publications in just a few clicks!**

NAVTOR's e-Publication Reader Module is a part of the Maritime Route Planning tool NavStation®. This module is fully Integrated and implemented in NavStation®, and provides a complete publication management.

Search- and highlight options makes it easy to use, by getting an instant view of topics and digital books.

The data are seamlessly updated through NAVTOR's e-Navigation Suite® with the award-winning cyber-secure NavBox®.



**St NavStation**



## The next step in Maritime Weather & Routing Services

Through a collaboration agreement with Weathernews inc.(WNI), the world's largest private weather service company, we have significantly upgraded our weather service in NavStation®.

Weather can make all the difference between profit and loss for shipowners and operators. With WNI's expertise integrated

in our e-Navigation services we aim to deliver the best, most comprehensive weather data available, allowing navigators to minimize risks and plan the safest, most cost effective and optimal routes for their individual vessels.

This module provides an easy ordering system and enhanced presentation of weather data. In addition to wind, wave, currents, swell and air pressure, new parameters such as tropical cyclones and weather fronts are also available in the weather service.



Tr / St / Bx / Sy / Si



 **3,5 hours**  
Manual Passage planning



 **0,5 hours**  
NavStation® Passage Planning

# Eliminating hours of administrative workload

NavStation®'s Passage Planning module reduce the amount of time spent on paper shuffling and administration duties for appraisal and planning of upcoming voyages. It is an embodiment of "e-Navigation made easy" that minimize fuss, administration and risk of human error.

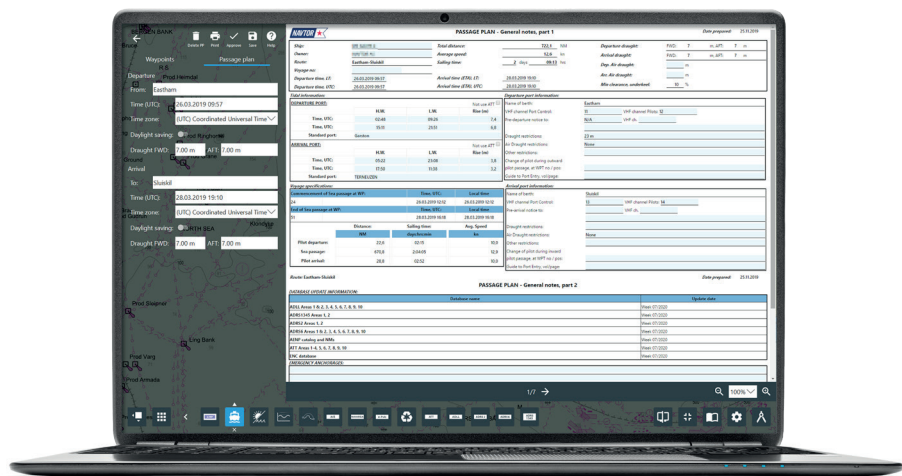
Passage Planning has never been easier. Navigators can now plan their routes on the latest updated ENC's, with the required ADMIRALTY Digital Publications, ADMIRALTY e-Nautical Publications, NavArea Warnings and Navtex stations automatically added to each waypoint/leg in the route.

This will make a real impact on day-to-day operations by eliminating hours of administrative work. With all critical voyage information available, the navigators can plan their routes on the latest updated ENC's. All ENC cells, ADP, AENP, T&P, UKC calculations, NavArea Warnings and other nautical information for each waypoint is automatically added in the Passage Plan documentation. Any changes made in the route will be updated simultaneously in the Passage Plan.

The Passage Planning module also ensures that the documentation carries all the relevant information for Vetting and Port State Control, thus reducing the risk of being detained.



**st NavStation®**



# Save time with **seamless, automatic** data distribution

NavBox® automates distribution and updating of navigational data, ensuring your vessel will always be fully compliant and up-to-date.

## **Bx** NavBox®

NavBox® takes the strain of administration, so you don't have to. Installed as a hardware box for integration into the bridge network, it will automatically deliver the latest chart updates and all other types of navigational data such as: ENC, ADP, AENP, NavArea Warnings, Weather Data, e-Publication Reader and MARPOL. **No fuss, no faults, no worries.**

NavBox® has a cyber secure certification (IEC 61162-460 Gateway) from DNV GL.



**CYBER SECURE**  
CYBER SECURE CERTIFICATION FOR NAVBOX  
IEC 61162-460 GATEWAY

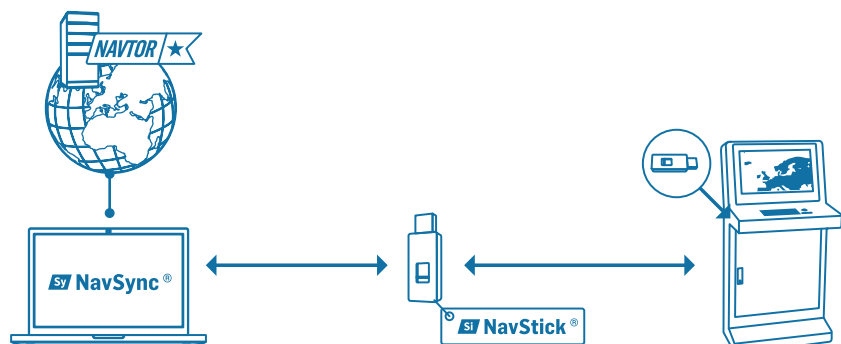
## Alternative solutions to the NavBox®:

### **Sy** NavSync®

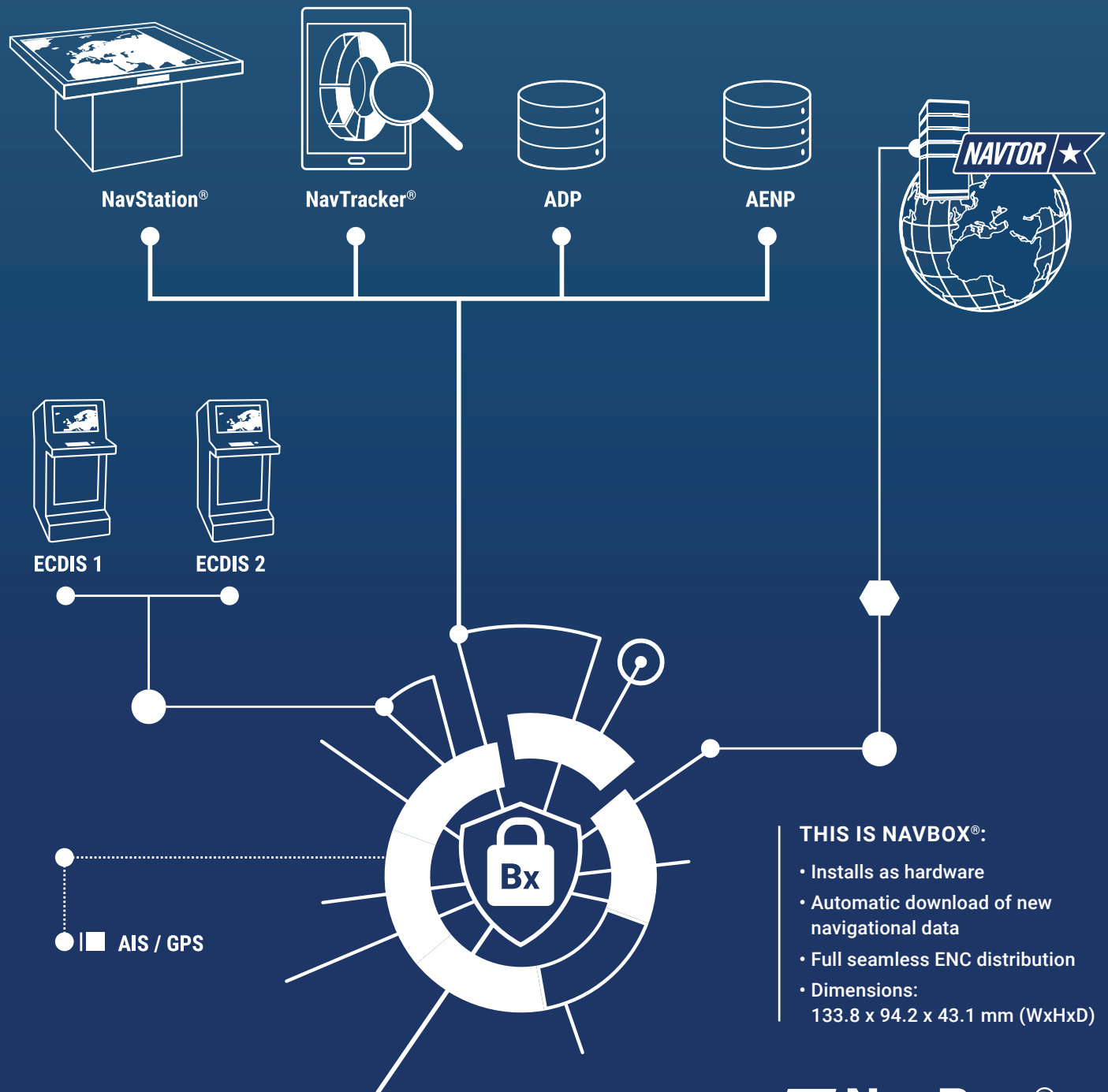
NavSync® gives you easy access to the latest versions of nautical charts. NavSync is a software for automatically updating of databases and permits. It can be installed on a PC – simplifying the ordering, licencing and updating of your ENC chart portfolio.

### **Si** NavStick®

This pre-loaded USB-based solution acts as the bridge between the ECDIS and an internet-enabled computer, allowing navigators to instantly download global charts and licenses to the ECDIS.



## Seamless updating with the NavBox®



**Bx NavBox®**

# Keeping track

## – Full control and always compliant

Full overview of chart usage, chart update history, vessel tracking and service management for navigators on board and ship management on shore.

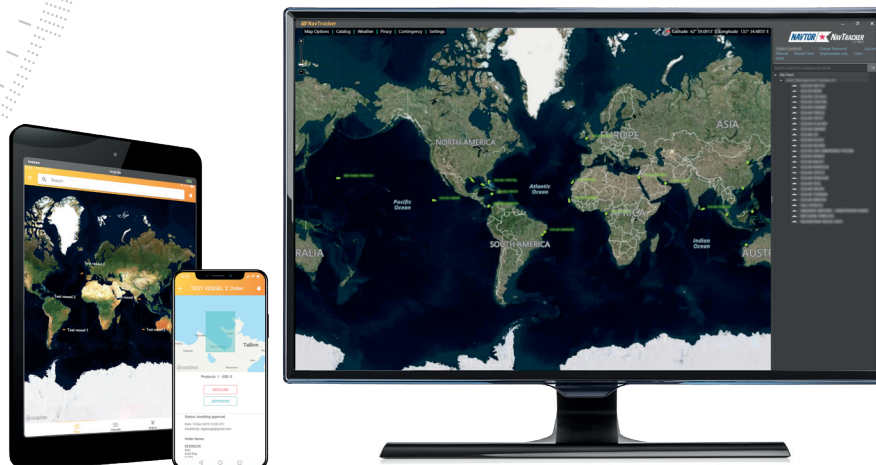
### Tr NavTracker®

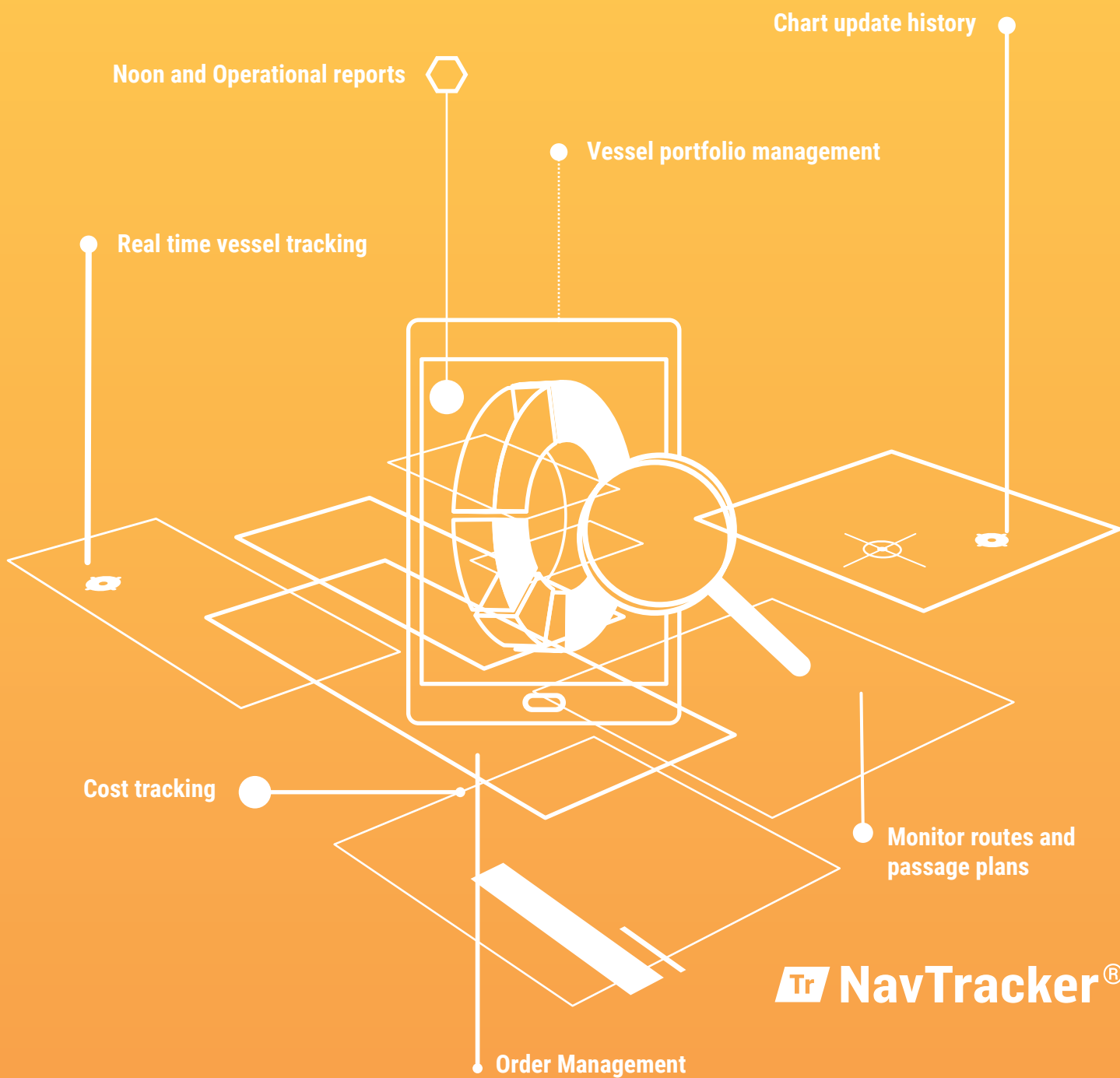
NavTracker® software is an easy way to track, report and manage vessel and fleet movement, chart usage and chart update history. NavTracker® is available as PC software and a mobile app, and is included with the subscription to NAVTOR®'s ENC Services.

#### Full control of vessel and fleet

NavTracker® ensures that both the crew on board and management onshore have access to the latest versions of required ENCs, the newest reports and up-to-the-minute tracking of individual vessels and entire fleet movements. It provides navigators and ship management with a full overview of chart usage, chart update history, vessel tracking and service management, in addition to a free three-day weather prediction service.

NavTracker® also gives users a simple way to generate various reports – both for individual vessels and entire company fleets. Examples of available reports include data updates, cost reports, vessel status reports, active products and subscriptions, detailed ADP and AENP holdings for all fleet vessels and Operational Reports giving an overview of actual speed over ground (SOG), course over ground (COG) and total distance and time.





Noon and Operational reports

Chart update history

Vessel portfolio management

Real time vessel tracking

Cost tracking

Monitor routes and passage plans

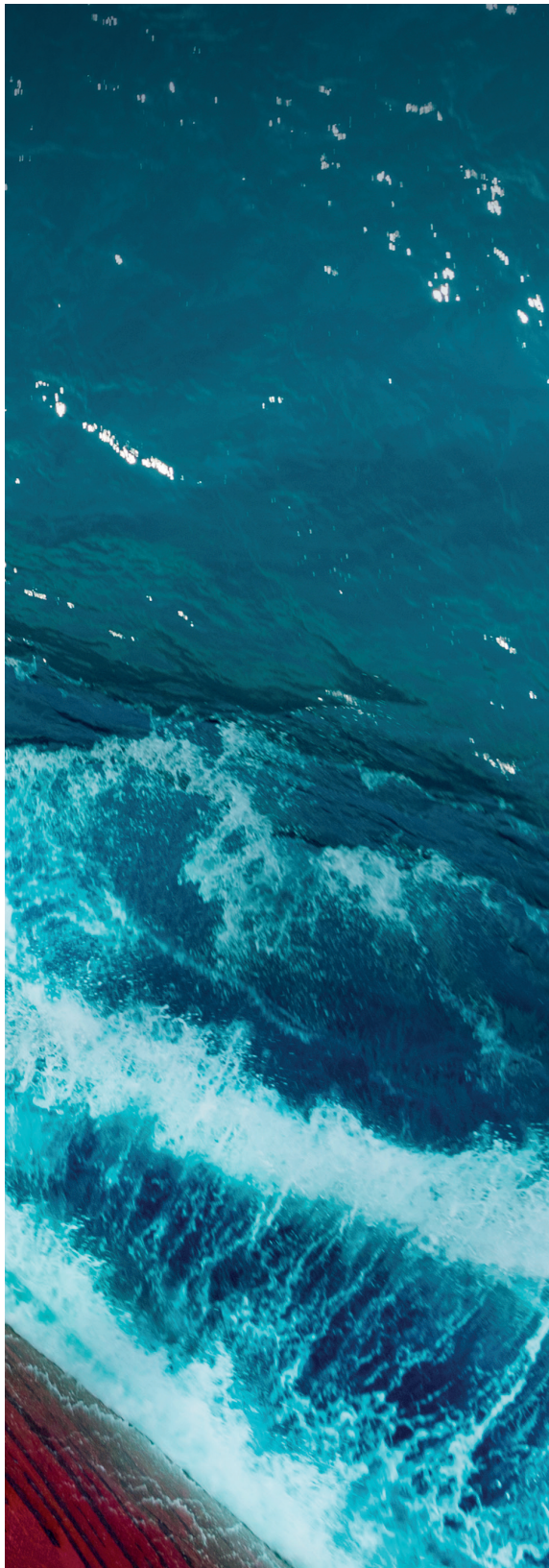
Order Management

**Tr NavTracker®**



**SIMPLE, FAST, EFFICIENT:**

- No more DVD shipments with the NAVTOR® service
- NAVTOR® delivers optimal compression and a service defined by its elegance and simplicity



# Seamless **ENC distribution** and updating

**ENCs are the heart of e-Navigation. NAVTOR® is dedicated to both exploiting their potential and simplifying their management – providing solutions to seamlessly distribute, update and optimise your ENC portfolio.**

NAVTOR®'s ENC service is compatible with all makes of ECDIS, providing a real advantage for shipowners with multiple ECDIS brands across their fleet. Not only does this make the ECDIS mandate easier to comply with, it also delivers additional services that help unlock the true operational potential of e-Navigation.

**NAVTOR® offers a range of subscriptions to meet the individual needs of your vessels:**

### **Pay As You Sail**

Unlike traditional ENC subscription models, which are based on set areas and time scales, NAVTOR®'s Pay As You Sail only charges vessels for the charts navigators actually use during voyages, while allowing them to instantly access any chart for planning. This flexible, user-friendly and cost effective way to navigate is now widely accepted by the industry, and most authorities

### **License By Route**

With a Licensing By Route-subscription navigators import a route or make a new one in NavTracker®, set a corridor and make an order.

### **Standard Subscription**

This is the standard method of ordering ENCs. Licenses can be chosen in any combination of three, six, or 12-month durations.

# ADMIRALTY

## Maritime Products & Services

We use only the most trustworthy and comprehensive databases for charts and publications, which ensures our products and services to deliver global and fully compliant coverage. Integrated as graphical overlays in NavStation®, databases and permits are automatically distributed and updated seamlessly through our cyber-secure NavBox®.

### Digital Charts & Publications

#### AVCS

##### ADMIRALTY Vector Chart Service (AVCS)

The most comprehensive, official, digital maritime chart service in the world; with over 15 000 Electronic Navigational Charts (ENCs) from hydrographic offices around the world.

#### ADP

##### ADMIRALTY Digital Publications (ADP)

The digital applications of the UKHO's market-leading nautical reference guides. ADP currently include ADMIRALTY Digital List of Lights (ADLL), ADMIRALTY TotalTide (ATT) and ADMIRALTY Digital Radio Signals (ADRS).

#### AENP

##### ADMIRALTY e-Nautical Publications (AENP)

The world's leading Nautical Publications available as e-books. AENPs allow bridge crews to add NM updates faster and more accurately than paper publications, giving them easier access to the information they need.

### Paper Charts & Publications

##### ADMIRALTY Standard Nautical Charts

ADMIRALTY Standard Nautical Charts (SNCs) are the world's most trusted and widely used official paper charts. The range includes comprehensive paper coverage of commercial shipping routes, ports and harbours to help bridge crews safely navigate in accordance with SOLAS regulations.

##### ADMIRALTY Nautical Paper Publications

Internationally recognised for their accuracy and excellence by mariners around the globe, the ADMIRALTY nautical publications complement the Standard Nautical Charts with Sailing Directions, Tidal Publications and List of Radio Signals.



## Your partner in the transition to digital

Paper charts remain an important piece of the navigational jigsaw. That's why NAVTOR® supplies its customers with a full range of both paper and digital Nautical Charts and Publications. We are a 'one stop shop' for the industry, helping navigators plot an optimal route from paper to digital.

We deliver the complete spectrum of IMO, Witherby and Admiralty paper products. We also offer publications from The Nautical Institute, Flag State Regulations and The Stationary Office.

In addition to paper charts and publications, we offer all kinds of nautical equipment, from logbooks, parallel rulers and other charts table instruments, sextants, binoculars, national flags, signal flags, merchant flags and IMO Signs & Symbols.

In other words, NAVTOR® is a total supplier of navigational products and services.

## NavTrace – Correction Service for Paper Charts and Publications

NavTrace allows vessels to define their own portfolio, see the status of applied corrections for Admiralty Paper Charts and receive the Weekly Notices to Mariners (NM's), including their Tracings, automatically. This enables navigators to ensure that the vessel's charts are maintained and up to date.

NM's and Tracings are available online in NavTracker® for immediate viewing and printing, as well as on the Navstick® for offline use. These can be downloaded together with NavSync® for the weekly updating of ENCs.

In addition to ADMIRALTY Notices to Mariners (NMs) corrections, NavTrace also includes corrections for Japan, Australia and Norway.



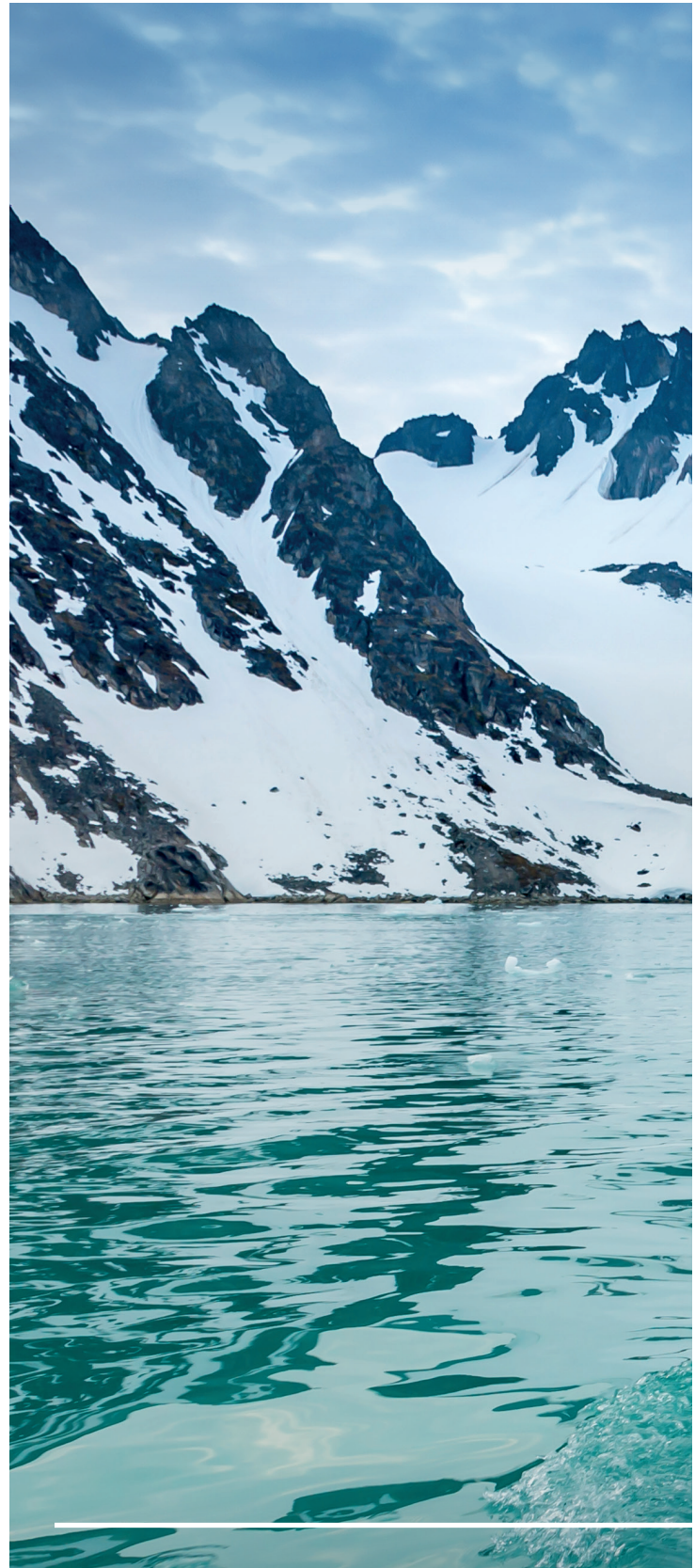
# Working with industry leaders to **shape the future** of e-Navigation

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**Digital integration of navigational equipment has been one of NAVTOR®'s most important focus areas, and few can rival the experience and know-how of our team when it comes to integrating our own services with bridge manufacturer's systems.**

Through technical and strategic partnerships with leading bridge equipment manufacturers, NAVTOR®'s ECDIS kernel SDK is one of the most popular ECDIS developer tools in the market. Used by several of the biggest bridge suppliers in the world, NAVTOR® has become a trusted partner and advisor that the industry looks to for guidance on how to comply with new industry standards, improve data sharing and enhance overall vessel safety and efficiency.

These strategic partnerships with bridge manufacturers and suppliers, combined with NAVTOR®'s involvement in numerous projects in several sectors of the maritime industry, will play an important role in discovering new solutions that will shape the bridge of tomorrow.





Leading the world in e-Navigation





# Our **global** reach

 NAVTOR Offices

 NAVTOR Distributors

## NAVTOR offices

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Leading the world in e-Navigation

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