ORCA AI

The Future of Autonomous Shipping is Already Here

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More data, harder seas



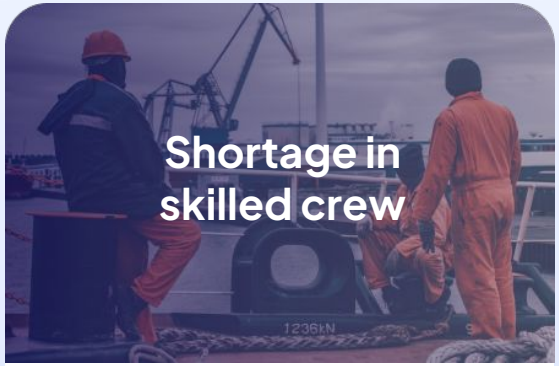
Waterways and ports are more congested

- Red Sea crisis → vessels rerouted via the Cape of Good Hope
- U.S.-China tariff war → congestion in European ports (Rotterdam, Hamburg, Southampton)



Geopolitics and security demands

- 124,000+ vessels hit by GPS jamming in Q3 2026
- Conflict zones demand more readiness on the bridge



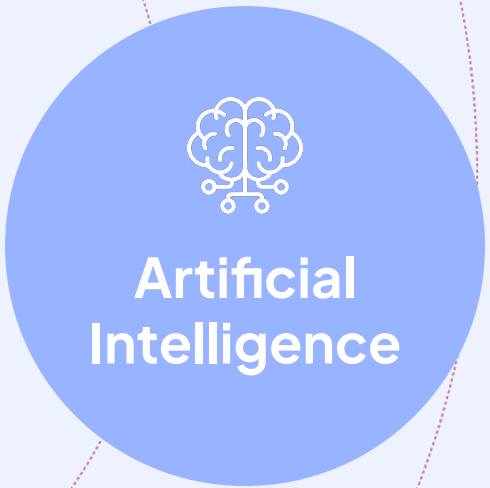
Shortage in skilled crew

- 39,100 officers short today, 113,735 more needed by 2030*
- Fewer people means less experienced crews carry more responsibility

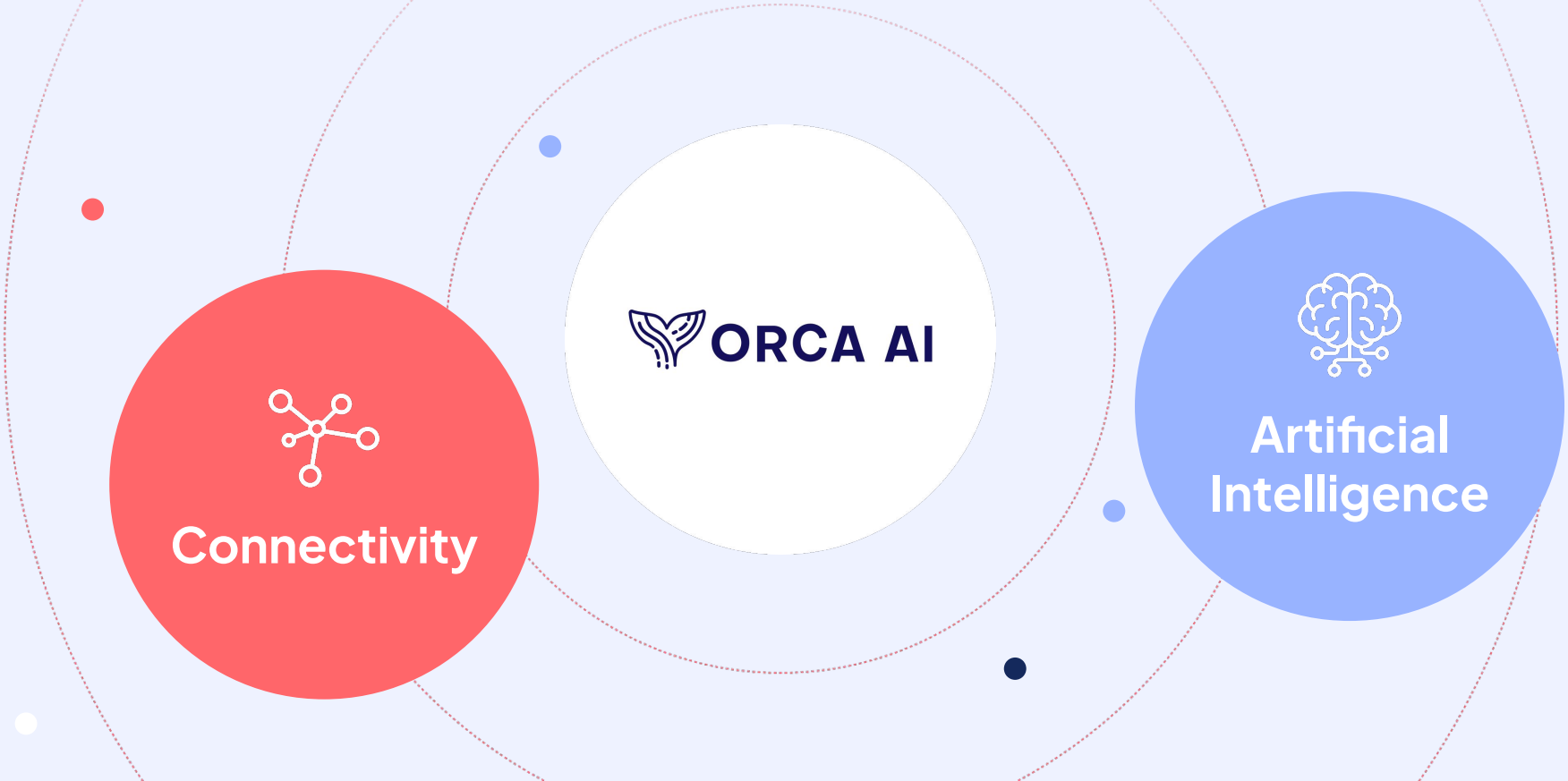
*BIMCO/ICS Seafarer Workforce Report 2026

Two breakthroughs reshaping maritime operations





Two breakthroughs reshaping maritime operations



2018

Headquartered in London, UK, we are the creators of a first-of-its-kind digital watchkeeper to maximize voyage safety and operational efficiency for ships and fleets.

200M+

We have more than 200M nautical miles of navigation data collected - the basis to an unmatched situational awareness capabilities

2,000

Vessels operate with Orca AI

無人運航船プロジェクト
MEGURI 2040
日本財団 THE NIPPON FOUNDATION

Officially certified by ClassNK (Type Qualification) in 2026. Powering Japan's first commercially certified autonomous Ro-Ro and NYK Line's next-generation autonomous car carrier

SAMSUNG
SAMSUNG HEAVY INDUSTRIES

Orca AI embedded as the standard situational awareness platform on all Samsung Heavy Industries (SHI) autonomous newbuilds and retrofits

NorthStandard

Collaborating with the world's largest marine insurer

SeaPod: compliant, certified and bridge-ready

Your 24/7 digital watchkeeper for enhanced situational awareness



Lloyd's Register

ABS TYPE APPROVED PRODUCT

ClassNK

2023 TECHNOLOGY AWARD SMART SEA EUROPORT

THE ROYAL INSTITUTION OF NAVAL ARCHITECTS

Information Security Management System ISO 27001 Certified

Designed to help the bridge team meet the requirements of Rule 5 by providing uninterrupted visual and thermal coverage that the human eye cannot maintain alone, especially in low visibility.

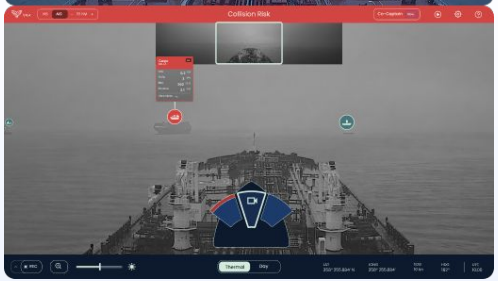
Supporting crews when conditions get tough

In fog and at night, Orca AI gives the crew a clearer picture, the first step on the path to autonomy.

Naked eye



With Orca AI



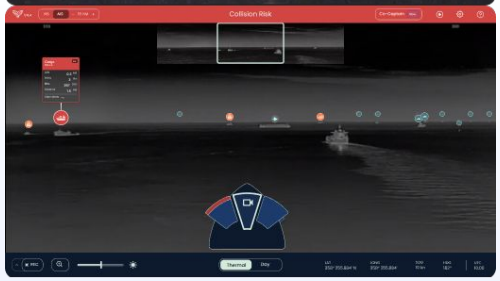
In fog

Vessels the bridge can't see are detected and marked on screen

Naked eye



With Orca AI

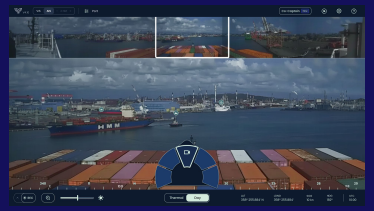


At night

Thermal cameras make vessels stand out against dark water

Autonomy is already here, one step at a time

The level of autonomy changes with the waters.



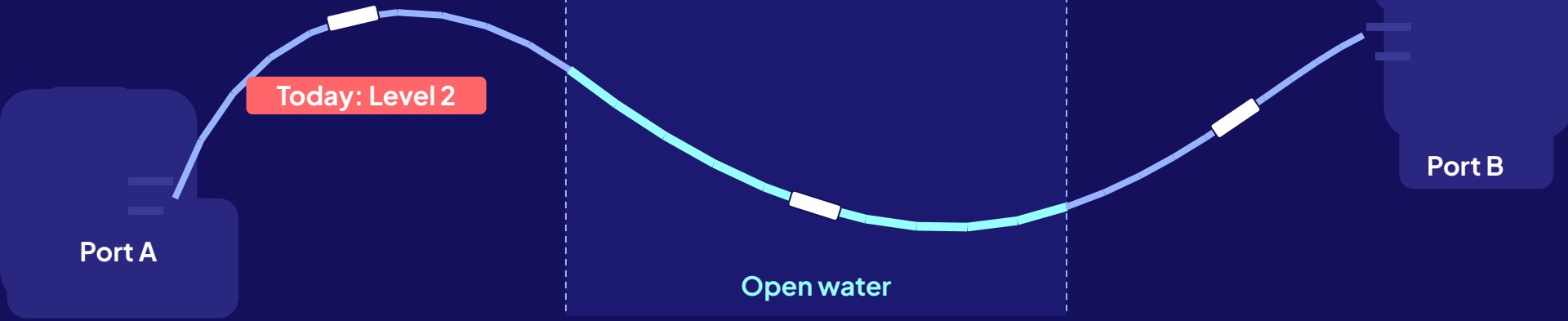
Port departure · Level 1–2
Human-led, AI-assisted



Open water · Level 3–4
AI-led, human in the loop



Docking · Level 1–2
Human-led, AI-assisted



Safety you can measure

NorthStandard

Lloyd's Register



52%

Fewer close encounters

98.6%

Recall

Key findings:

- NorthStandard: 52% fewer high-severity close encounters across 139 vessels and 10.8M nautical miles
- Lloyd's Register: first class validation of computer vision detection, on a live 5-day voyage

GPS interference, in numbers

Jamming and spoofing are now part of daily navigation in the Gulf.

5,131

GPS jamming incidents a day worldwide, Q3 2026

74%

of ships in the Gulf returned no AIS match in July

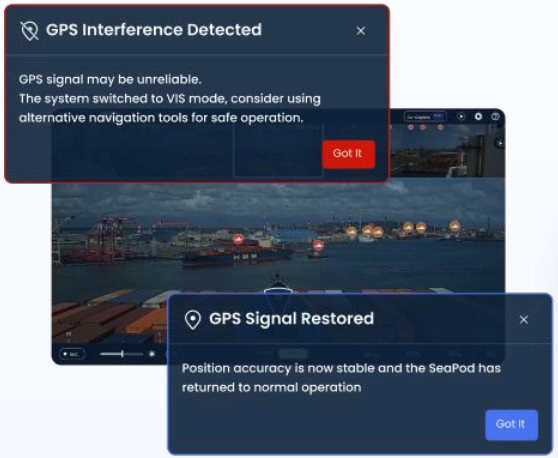
61%

of Hormuz transits in August were fake, caused by jamming

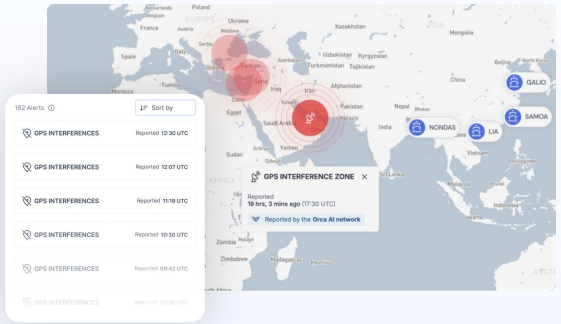
Sources: Windward, Q3 2026 Maritime Risk Report and Strait of Hormuz analysis (August 2026); TradeWinds / Windward (July 2026)

Navigate safely through GPS spoofing

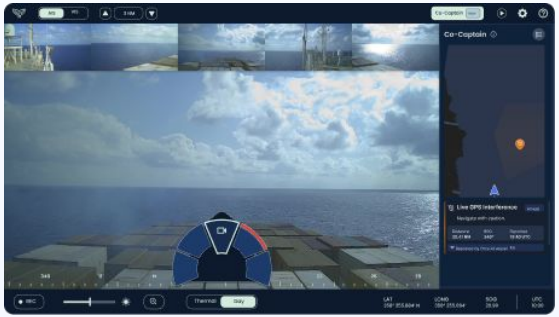
Orca AI works alongside the ship's existing sensors, and when one of them fails, like GPS, the cameras keep the picture clear.



Maintain operational continuity during spoofing events



Real-time fleet monitoring and proactive route planning



Co-Captain: spoofing alerts shared across the connected fleet network

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Thank you!