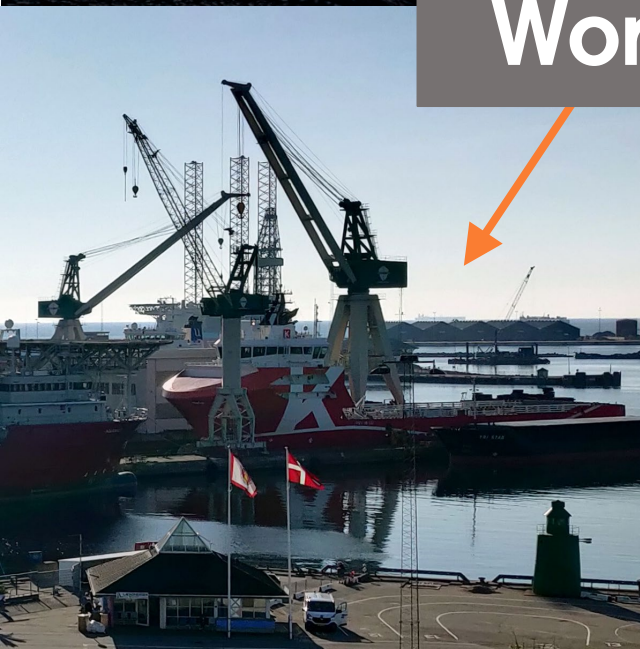


sternula 
Connecting the Oceans

Take part in the
Worldwide AIS 2.0 Demo



Need: Digitalization

- Public services
- Commercial services

Bookings of
shipyard, port
slots, or pilots

Vessel Traffic
Service (VTS)

Engine monitoring

Maritime Safety
Information (MSI)



Solution: Connect over the VHF antenna!

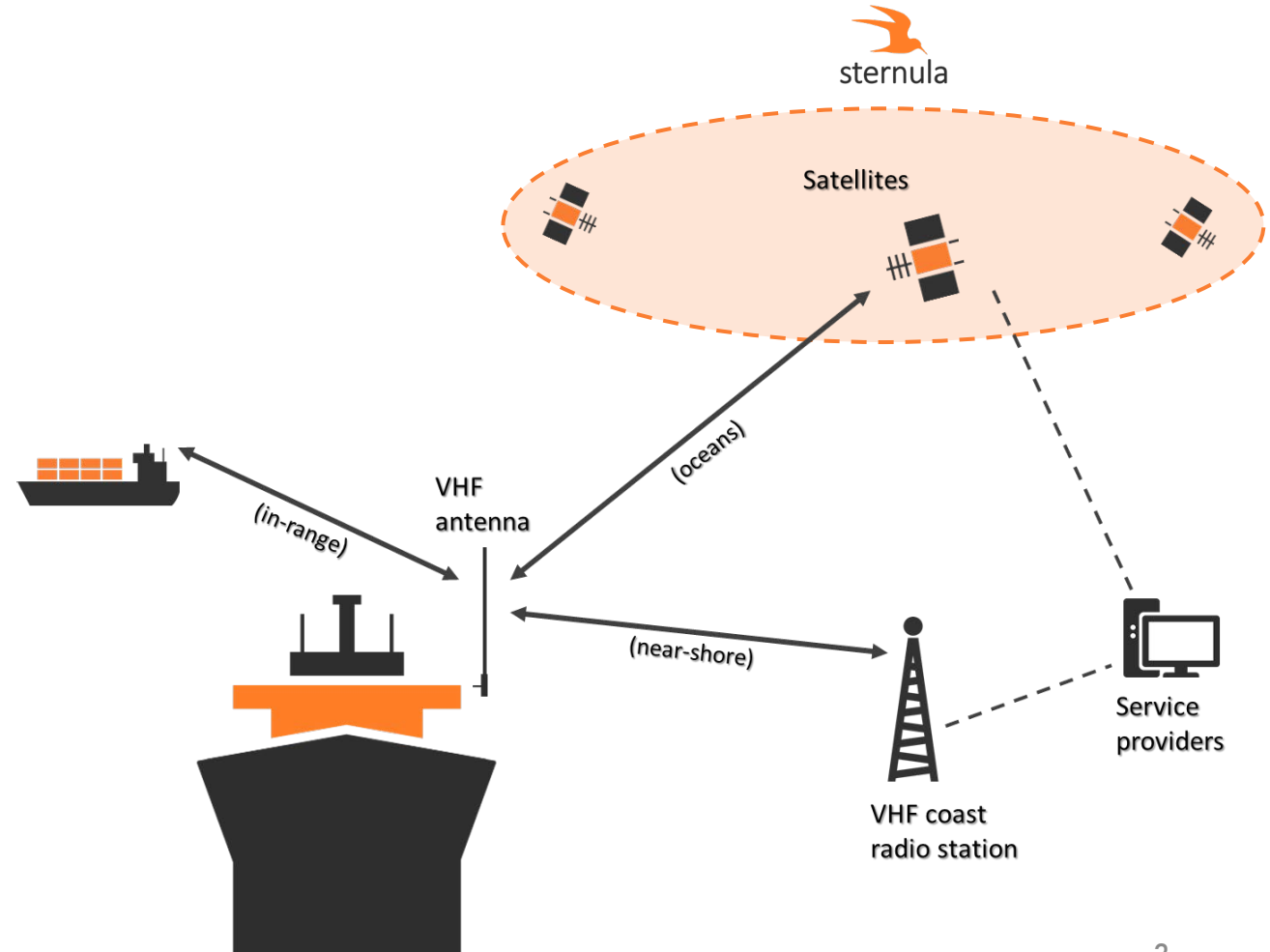
AIS 2.0 (VDES) is a new maritime telecommunication network

- ship-to-ship
- ship-to-shore (coastal radio)
- ship-to-shore (via satellite)

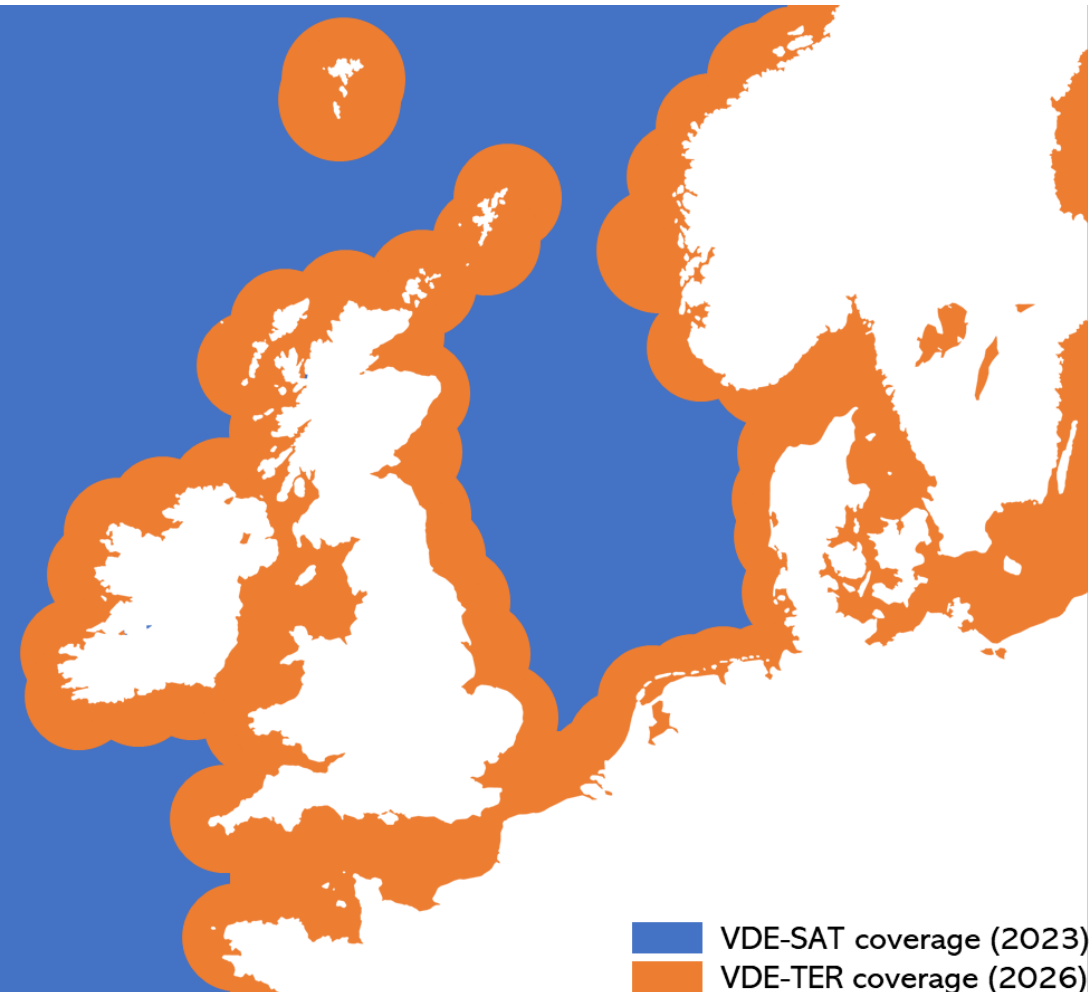
AIS 2.0 is a global standard

- ITU: Rec. M.2092
- IMO: SOLAS chap. IV & V (update ongoing)

Sternula offers global satellite-based AIS 2.0



When?: From 2023

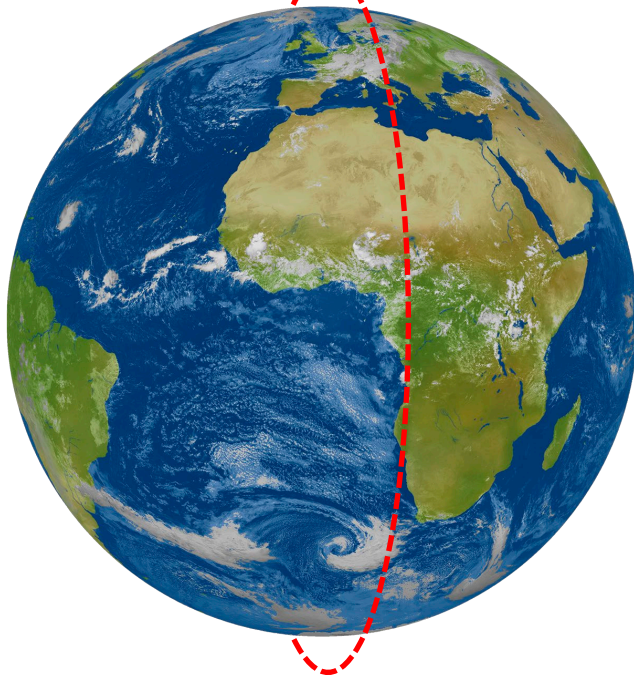
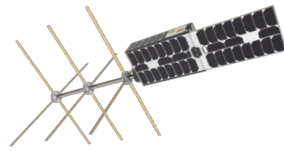


- VDE-SAT (Sternula) operational from 2023
 - First satellite launched November 2022
- VDE-TER (coastal radio)
 - Test projects are ongoing...

Sternula: Ramping up our infrastructure...

GO

1 satellite
(1 visit/day at
Equator, 10kb)



2021

2022

2023

2024

2025

2026

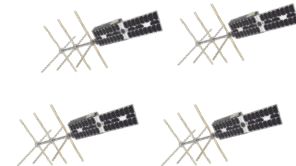
2027

2028



G1

+4 satellites
(6 visits/day at
Equator, 50kb each)



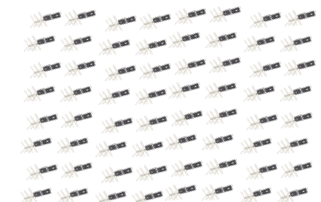
G2

+16 satellites
(1 visit/10 minutes
globally, 100kb each)



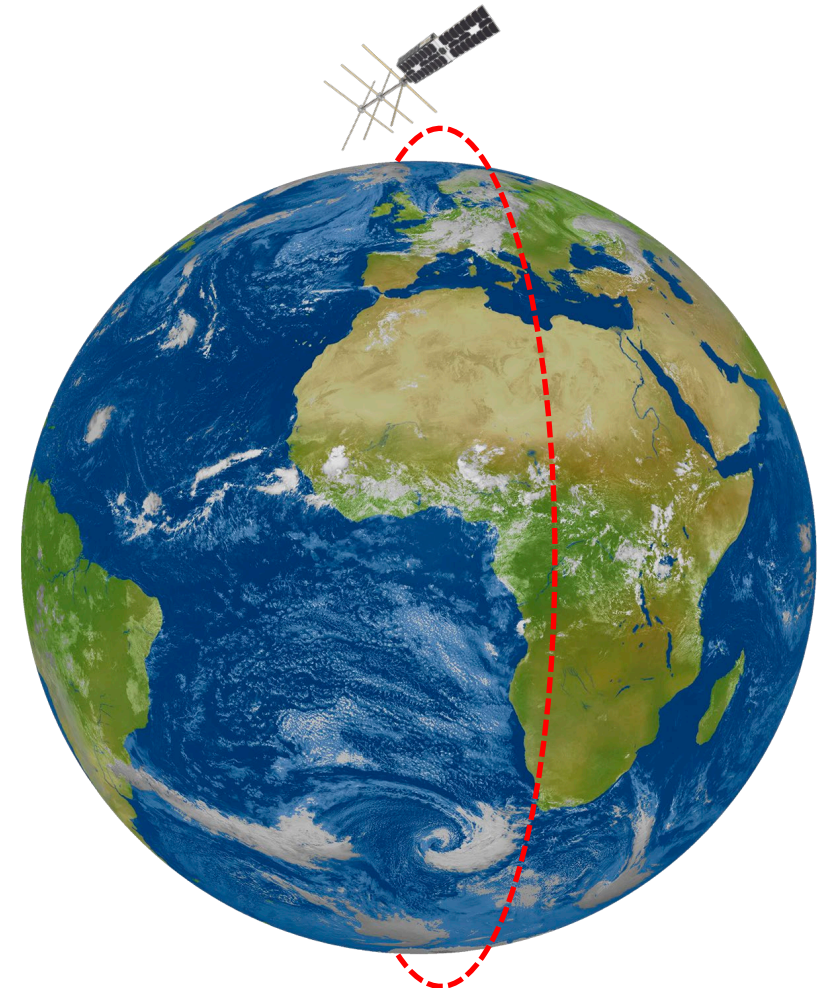
G3

+40 satellites
(realtime globally,
100kbps)



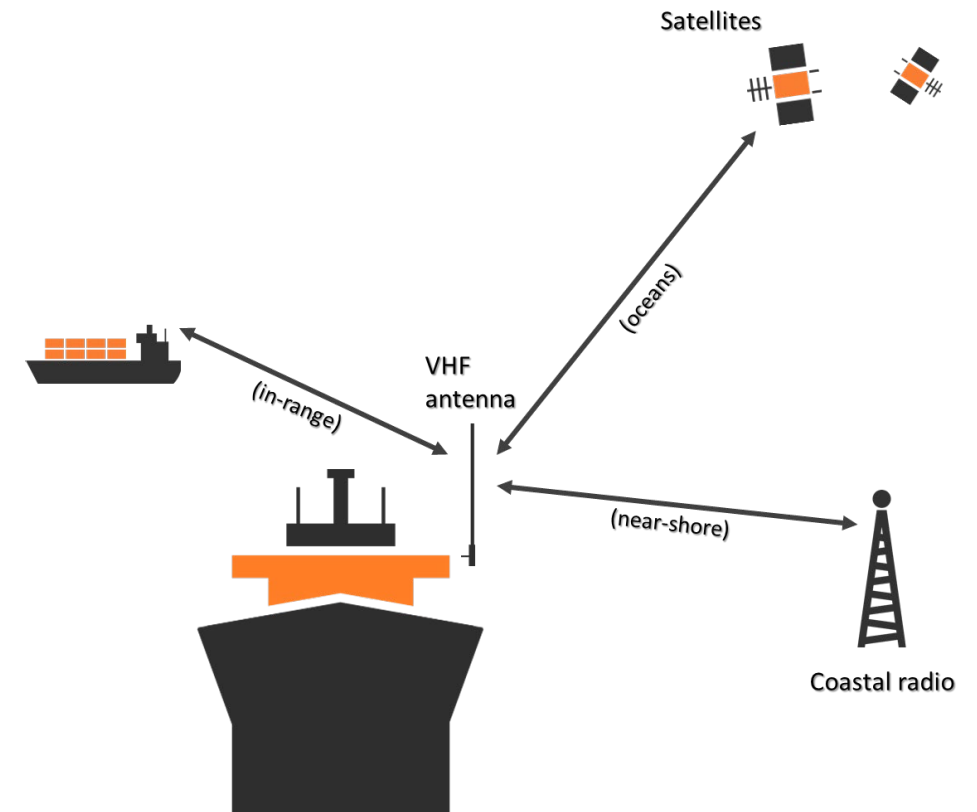
Worldwide AIS 2.0 Demo, What?

- **AIS 2.0 (VDES)** will be the foundation of global maritime connectivity
 - recommended by ITU (M.2092)
 - expected to be required by IMO (SOLAS)
- In early 2023, the **Worldwide AIS 2.0 Demo** project will take place
 - ships equipped with AIS 2.0 terminals
 - selected maritime digital services
 - global connectivity via satellite
- **Sign up now to take part!**
 - See next pages...



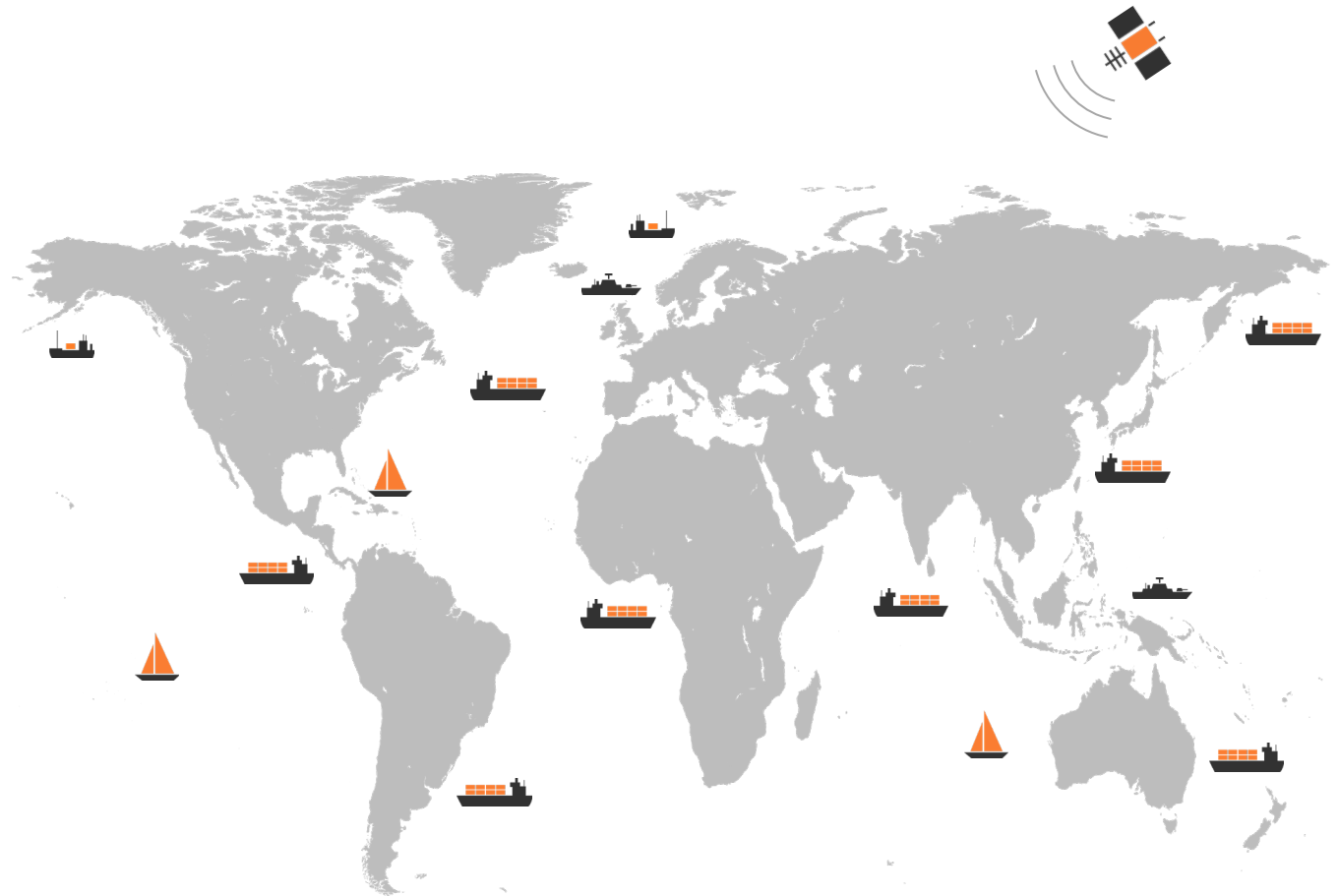
Why?

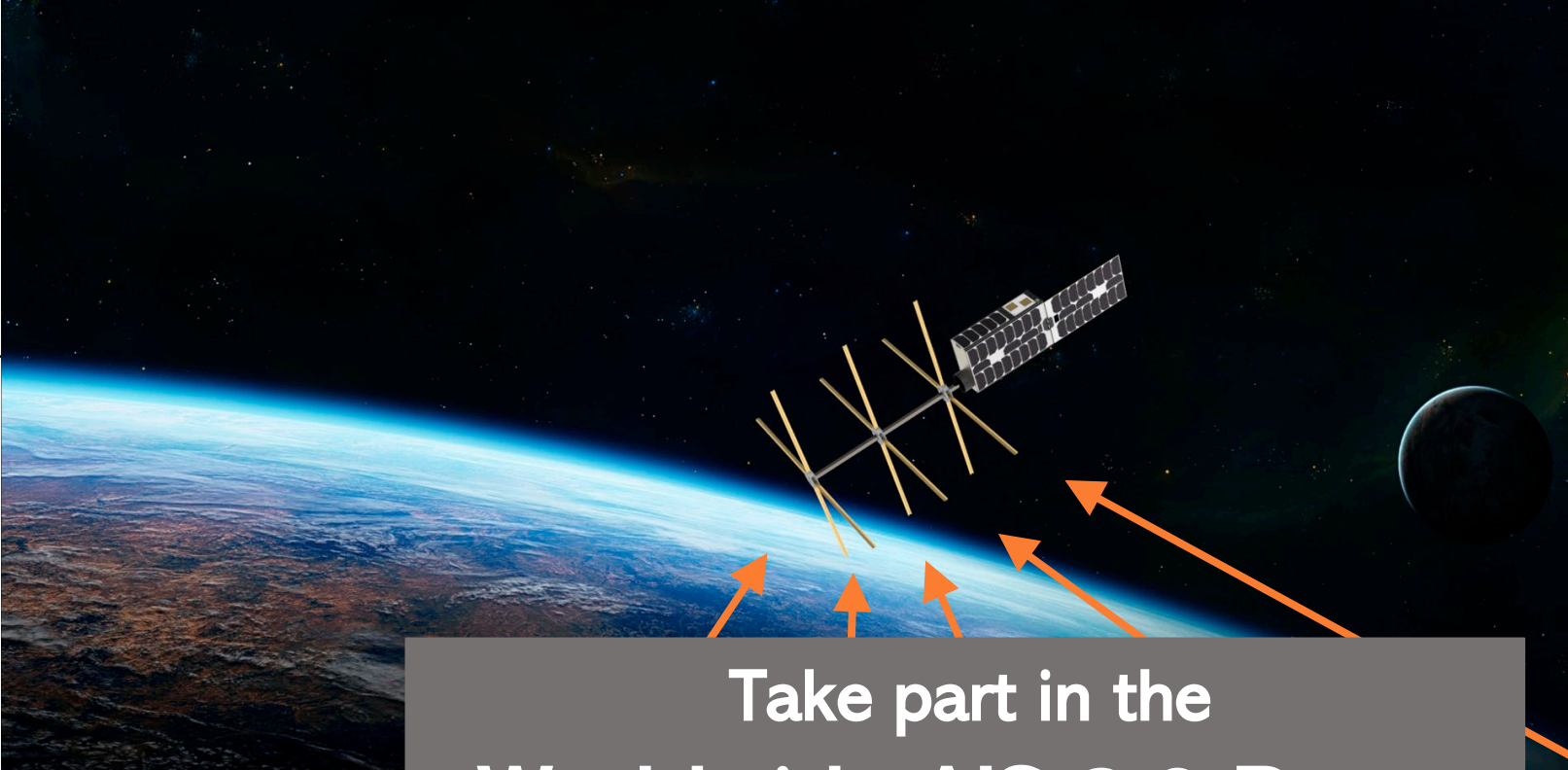
- Digitalization in the maritime domain has always been difficult
 - Connectivity is poor and expensive
 - Critical equipment cannot just be connected
- AIS 2.0 has been developed as the new “available anywhere” connectivity option
 - Affordable ship equipment
 - Global coverage via satellite
 - Extremely simple and robust
- AIS 2.0 ship terminals and global coverage via satellite are now available



How?

- Take part in the **Worldwide AIS 2.0 Demo** project:
 1. Sign up at:
www.sternula.com/index.php/ais2demo
 2. Implement your own demo service(s), or subscribe to:
 - receive virtual Aids-to-Navigation
 - receive Navigational Warnings
 - receive AIS 2.0 Weather Bulletins
 3. Equip one or more vessels with an AIS 2.0 terminal
 4. Carry out your own part of the trial and present the results





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Worldwide AIS 2.0 Demo

