NEW RESEARCH FLEET .NL

Update on the new Dutch Research Fleet

Zeynep ERDEM – National Marine Facilities NIOZ

June 2024

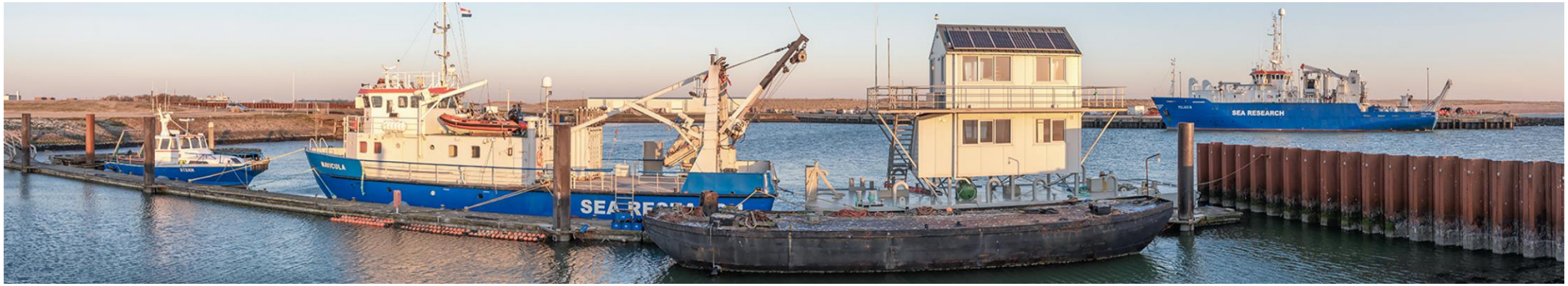
ERVO meeting, Vigo

NIOZ

NWO

Dutch research fleet

RV Stern *RV Navicula* *RV Pelagia*



RV Adriaen Coenen

RV Wim Wolff

RV Anna Weber-van Bosse

The new research fleet

RV Adriaen Coenen *has been* in service since the summer of 2022.

RV Adriaen Coenen

RV Navicula will be replaced by ***RV Wim Wolff*** ~~in fall 2023~~ **delivered today**

RV Wim Wolff

RV Pelagia will be replaced by ***RV Anna Weber van Bosse*** in 2025.

RV Anna Weber-van Bosse

RV Adriaen Coenen

In service since August 2022

Specifications

- Length overall: 19 m
- Beam: 5 m
- Draught: 0.8 m
- Material: Aluminium
- Speed: 20 knts
- Crew: 2
- Max # people: 12
- Features: A-frame, side frame, ADCP & Multibeam deployment, wet lab, dry lab, towing arrangement

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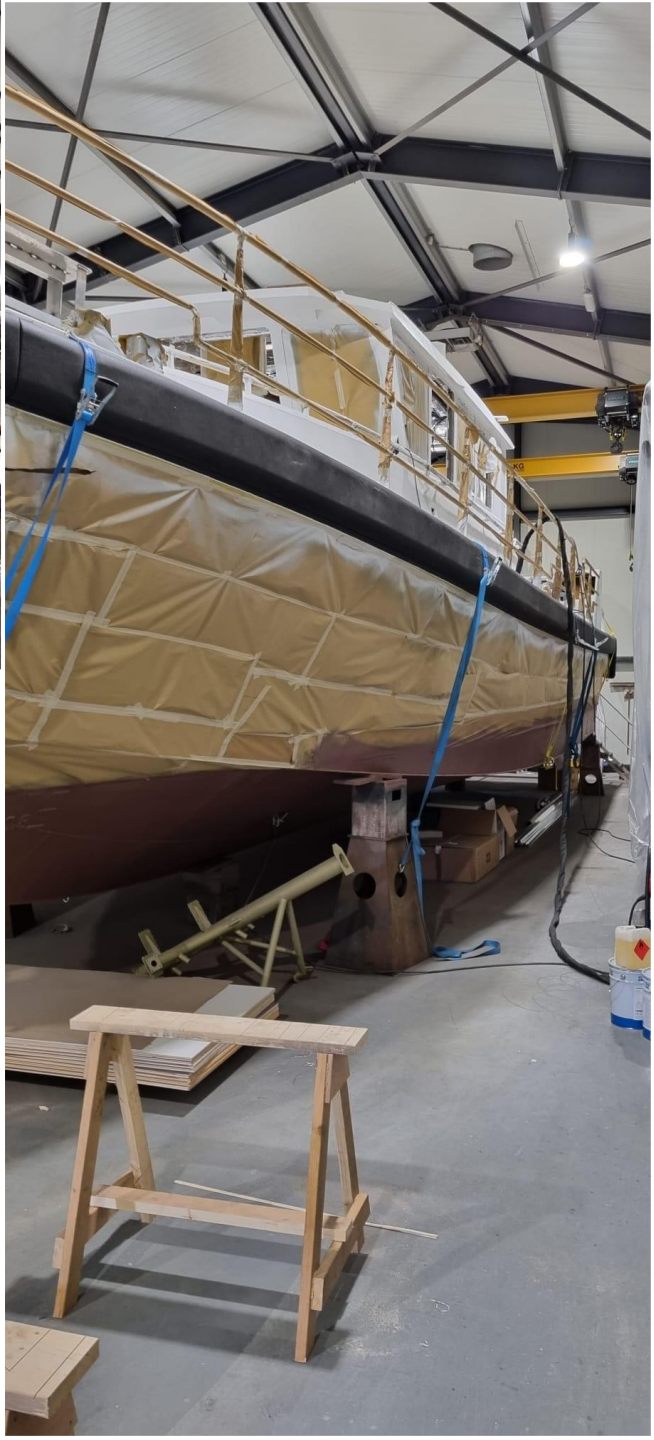
Building process at **Next Generation Shipyards** in Lauwersoog, The Netherlands

NG SHIPYARDS



RV Adriaen Coenen

RV Adriaen Coenen

Technical information

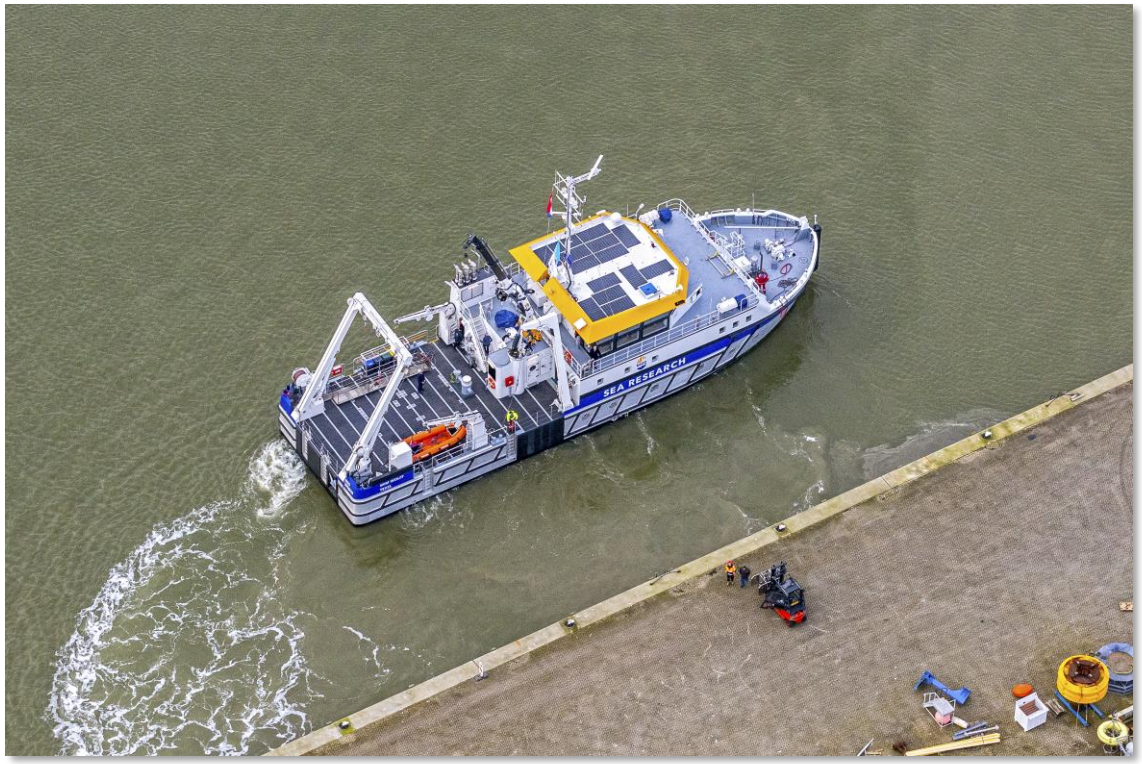
- Engines: Scania (Stage V)
- Water jets: Hamilton

- Energy during cruising: HVO diesel engines
  Anchored/grounded: solar panels and battery pack
  Energy back up by a small generator

RV Navicula

Retired at the age of 41

RV Wim Wolff



Delivered **today** first expedition is planned next week

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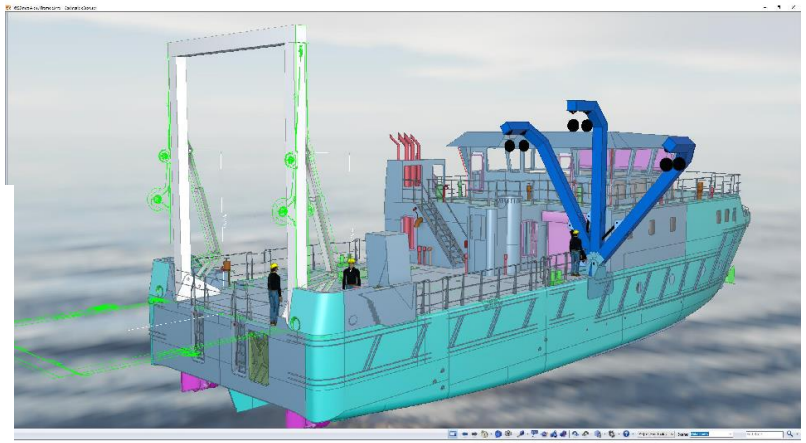
RV Wim Wolff

THECLA BODEWES SHIPYARDS



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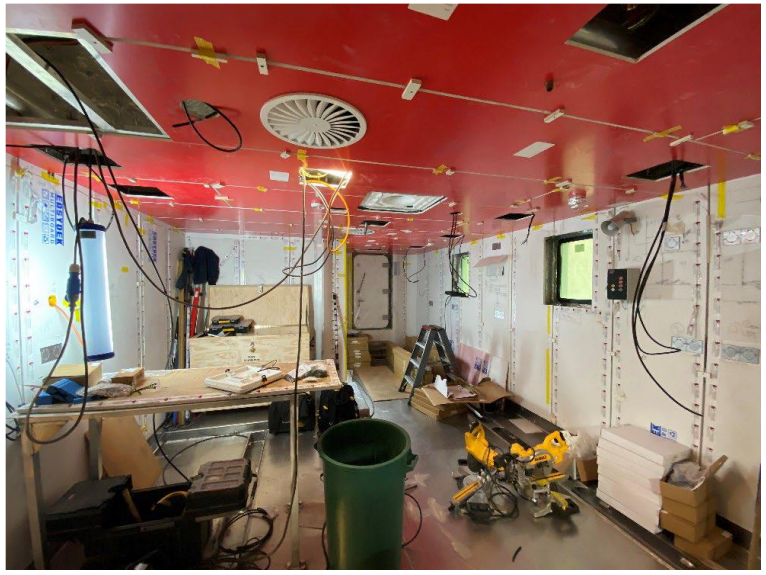
RV Wim Wolff



Building process photos were taken from newsletters ©FH

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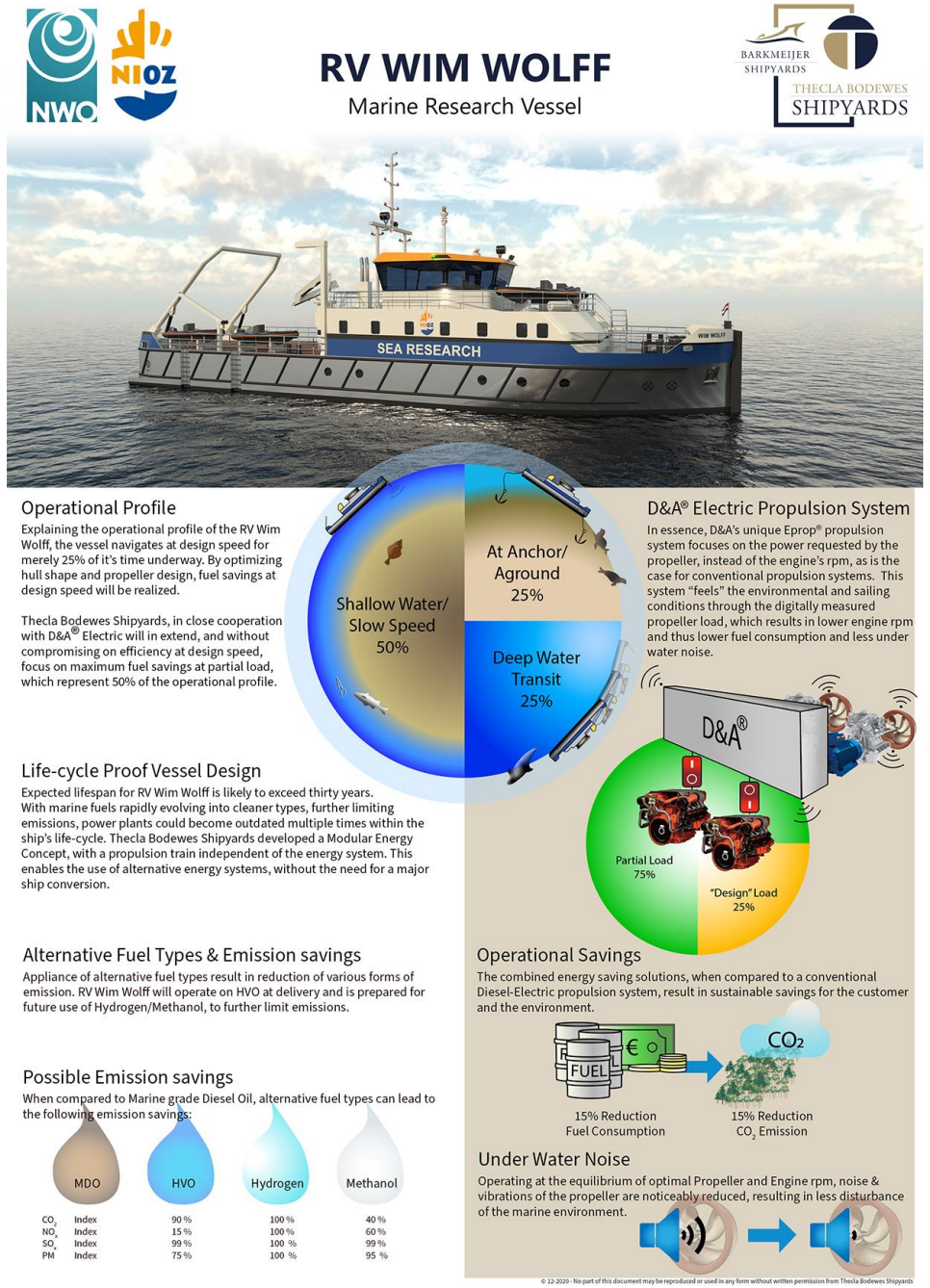
RV Wim Wolff

Specifications

- Length overall: 36 m
- Beam: 10 m
- Draught max.: 1.20m
- Working deck area approx.: ~125m^2
- Speed: 12 knts
- 4 crew + 12 passengers
- dry and wet lab
- 2 container space on the working deck

- hybrid diesel-electric system
- Scania (Stage V) engines using HVO.
- Emissions-neutral by 2031



RV Pelagia

Specifications

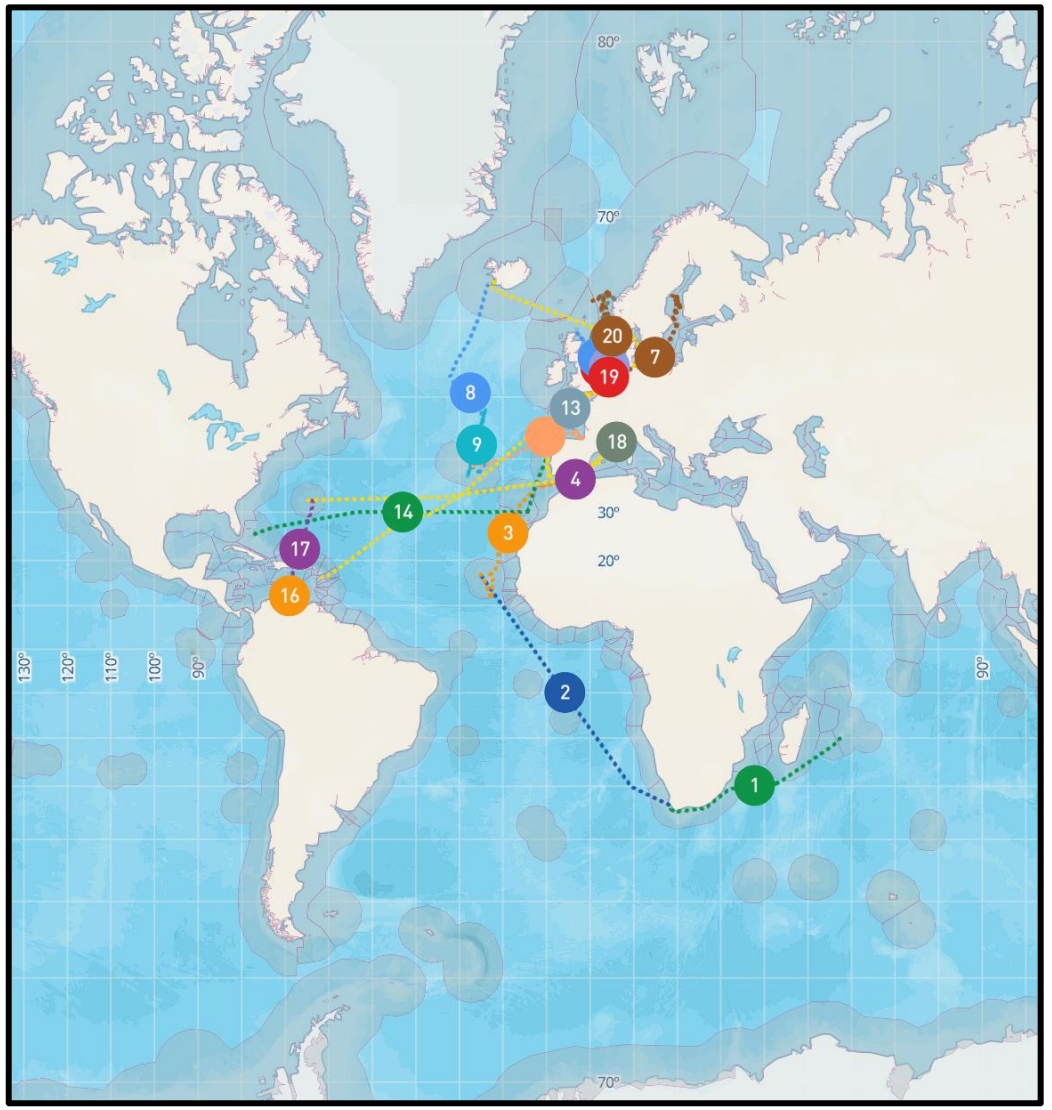
- Length overall: 66 m
- Beam: 12.80m
- Draught: 4.20m
- Cruising speed / Maximum speed: 9knts / 11knts
- Diesel
- Fuel consumption at cruising speed: ~4.5 m^3 per day
- No DP

- 12 scientists + 2 tech support + 11 crew (single berth).

- Planned retirement Summer 2025

RV Pelagia in 2023 and 2024

Reporting Periods	2023, 2024
Total Days	731
Days at sea	335,9
NL EEZ	47,2
Foreign EEZ	200,3
International waters	88,5
NL Ports	112,1
International ports	93,4



Info taken from MFP on June 9th

RV Anna Weber-van Bosse

Specifications

- Length overall 80m
- Breadth molded 17m
- Depth to main deck 8.70m
- Summer draught 5m
- Scantling draught 5.50m
- Accommodation 46

(16 crew and 30 scientists)

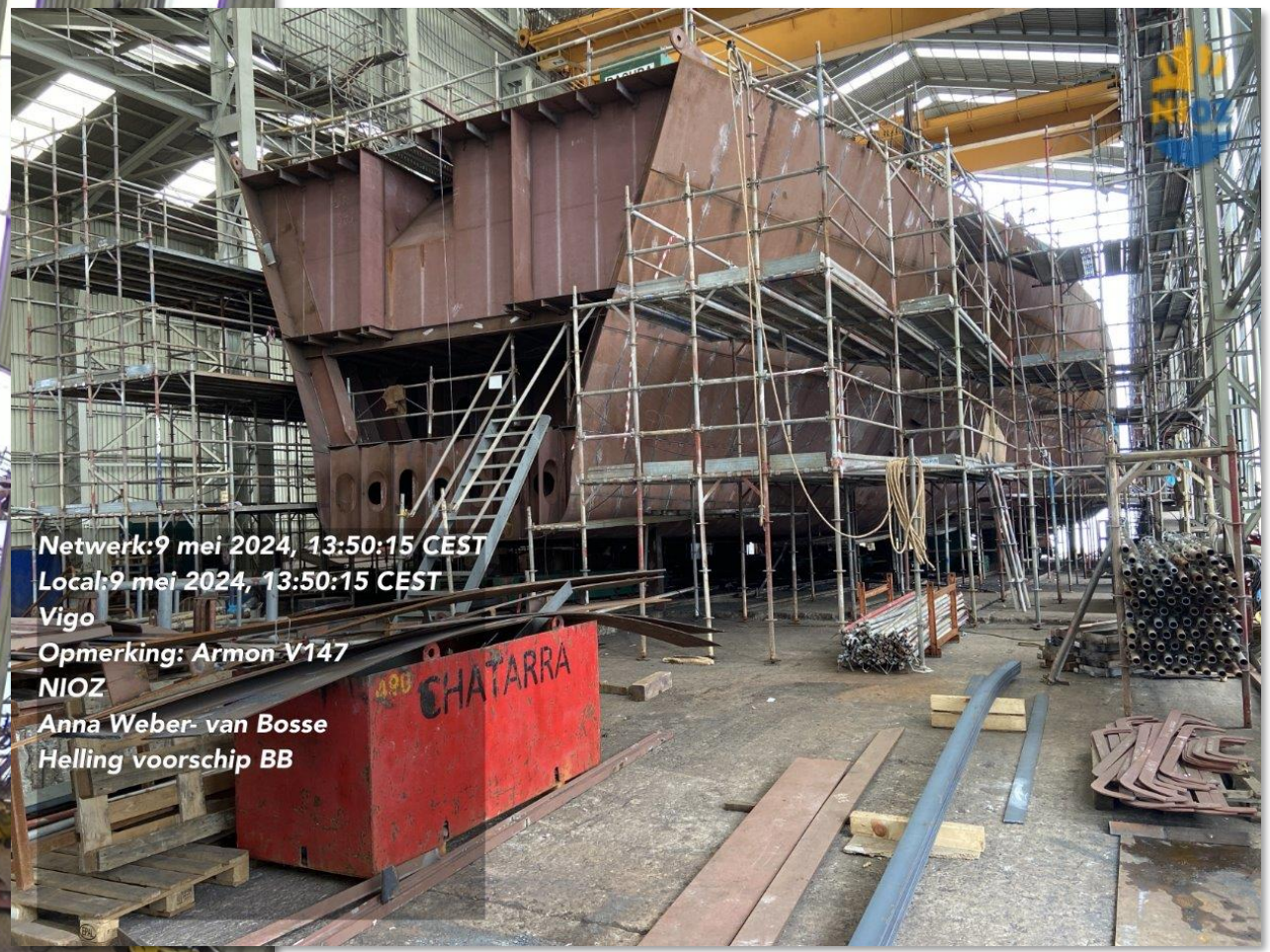
RV Anna Weber-van Bosse

- Ice-class 1C
- Longer periods at sea with more people onboard
- Capable handling equipment; AUV, MEBO, ROCKDRILL
- Piston cores up to 30m
- Main-, dry-, wet- and geolab
- Room for 12 laboratory containers (max 17)
- Dynamic Positioning (DP2)
- Methanol ready
- Aim for ‘zero emission’ after 10 years refit

The *RV Anna Weber-van Bosse* will be built by **Astilleros Armon A.S.** in Vigo, Spain.

Delivery is scheduled for the **3rd quarter of 2025.**

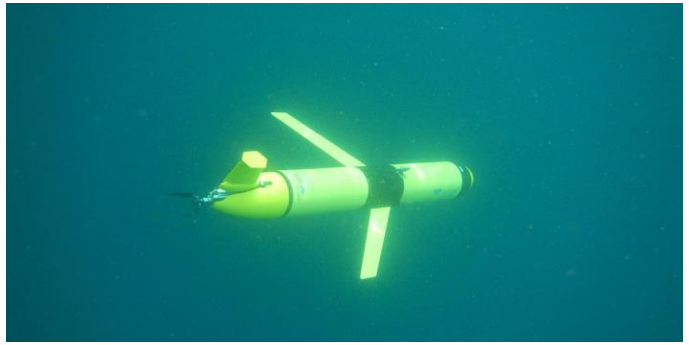
RV Anna Weber-van Bosse

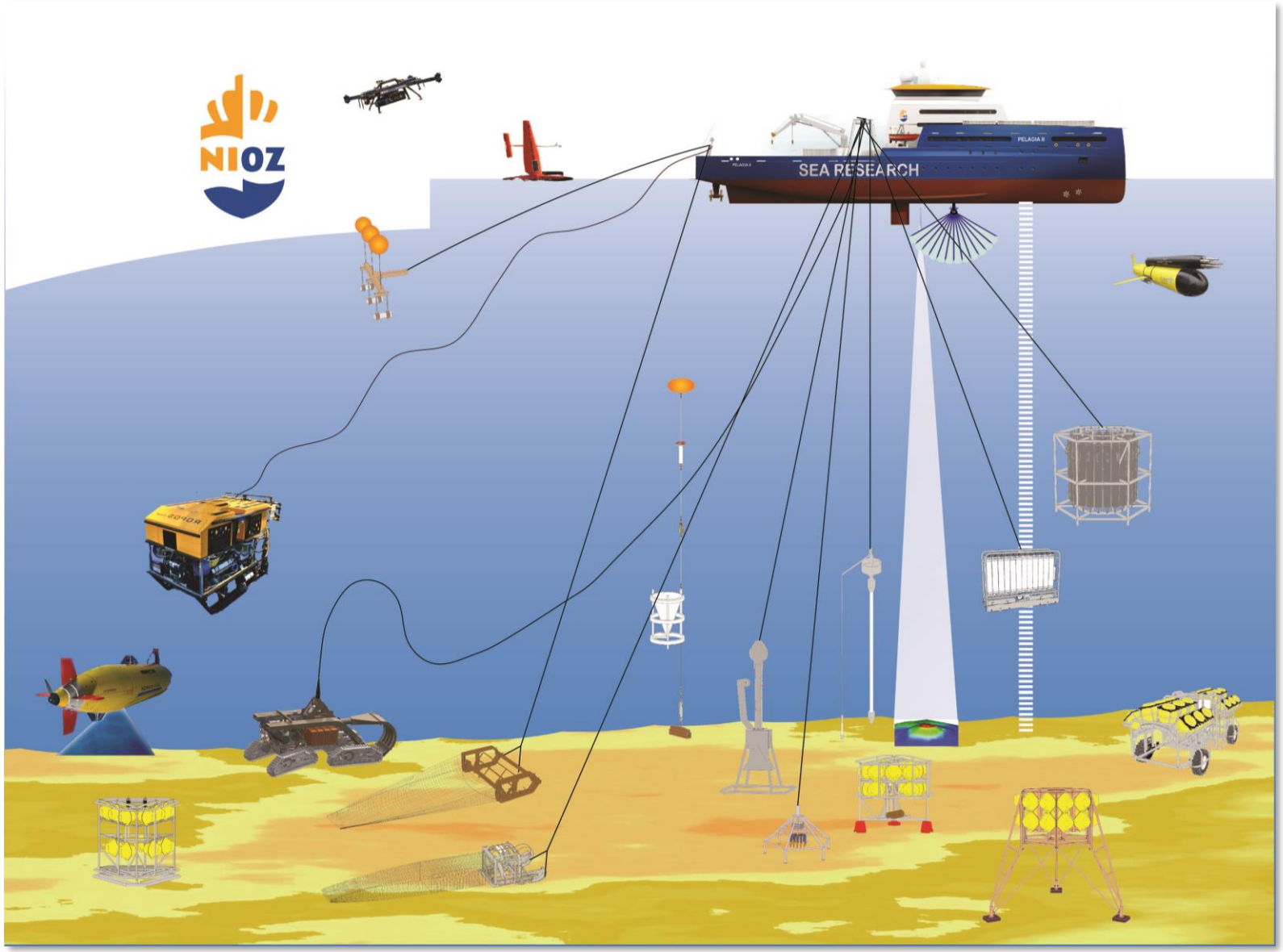


Working area: World wide, and near polar regions

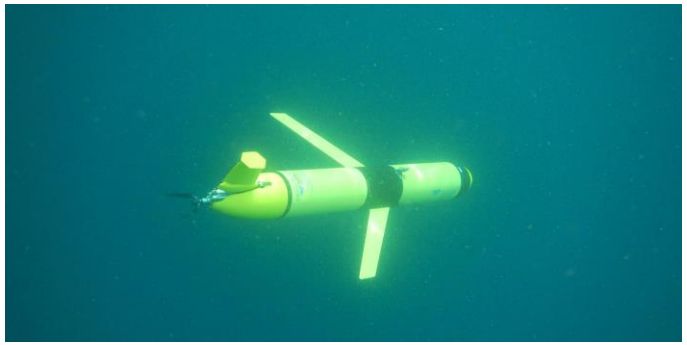
Coming years large scale infrastructure

- 3 gliders
- 1 AUV
- Working class ROV



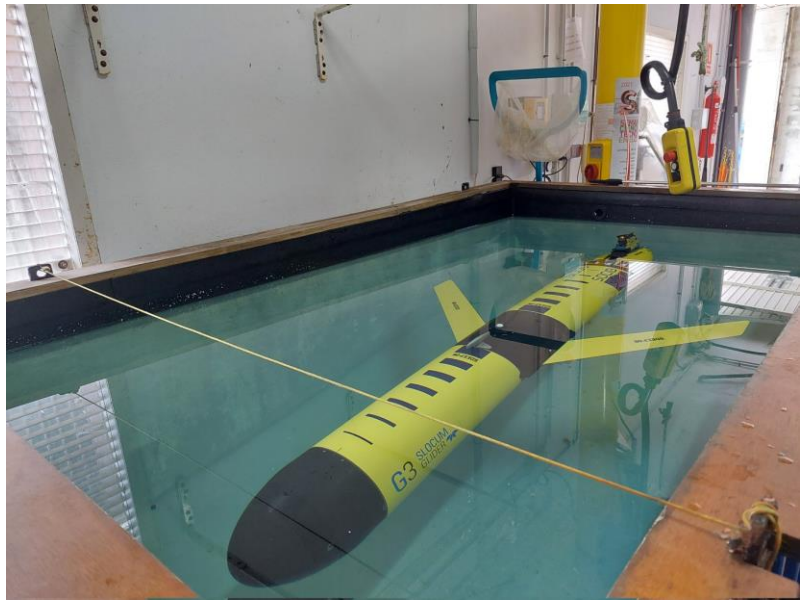


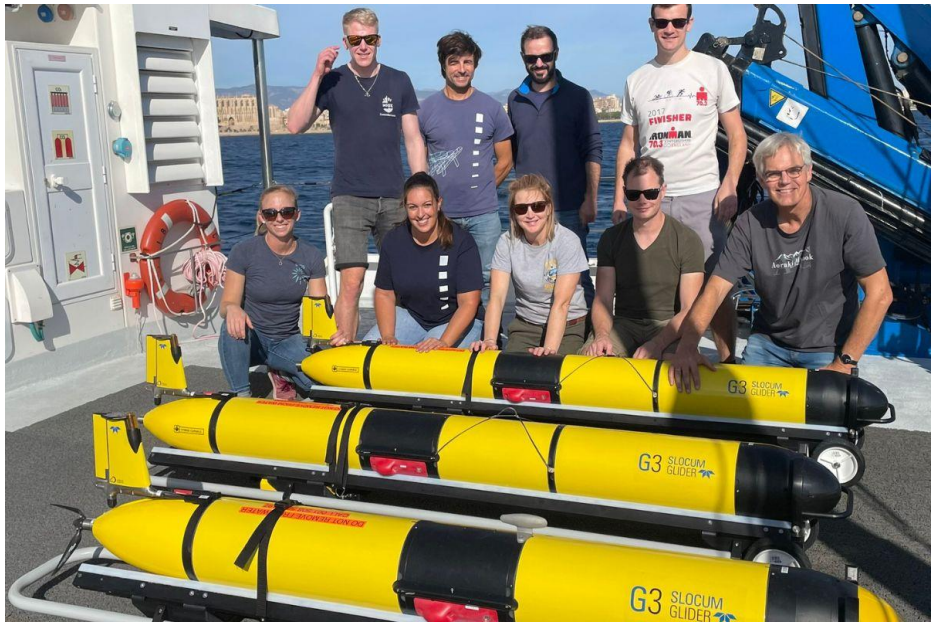
New Equipment

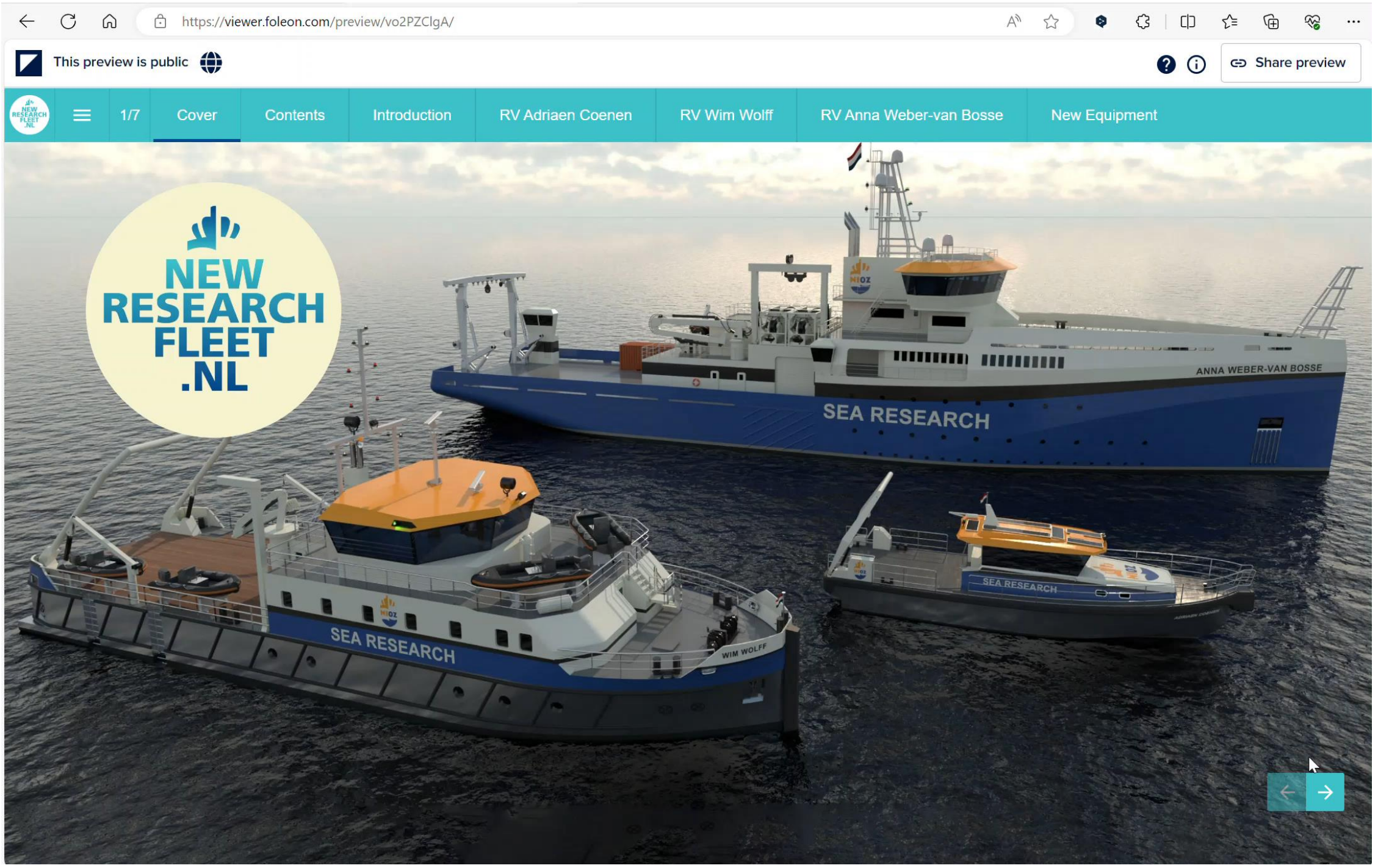


Coming years large scale infrastructure

- 3 gliders (in operation)
- AUV (delivery in early 2025)
- ROV (tender phase)



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Thank you

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Follow the project at: www.newresearchfleet.nl

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