

Upgrading Southern Australia's vessel capability

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24 September 2024



Government
of South Australia

Department of Primary
Industries and Regions

SARDI



SOUTH AUSTRALIAN
RESEARCH AND
DEVELOPMENT
INSTITUTE



The South Australian Government



The Department for Primary Industries and Regions (PIRSA)



The South Australian Research and Development Institute (SARDI)



To advance the prosperity and sustainability of South Australia's primary industries and regional communities.



39 years-old

25m inshore
trawler

Operates up to
150 days per
year

Delivers critical
research but
limited
capability

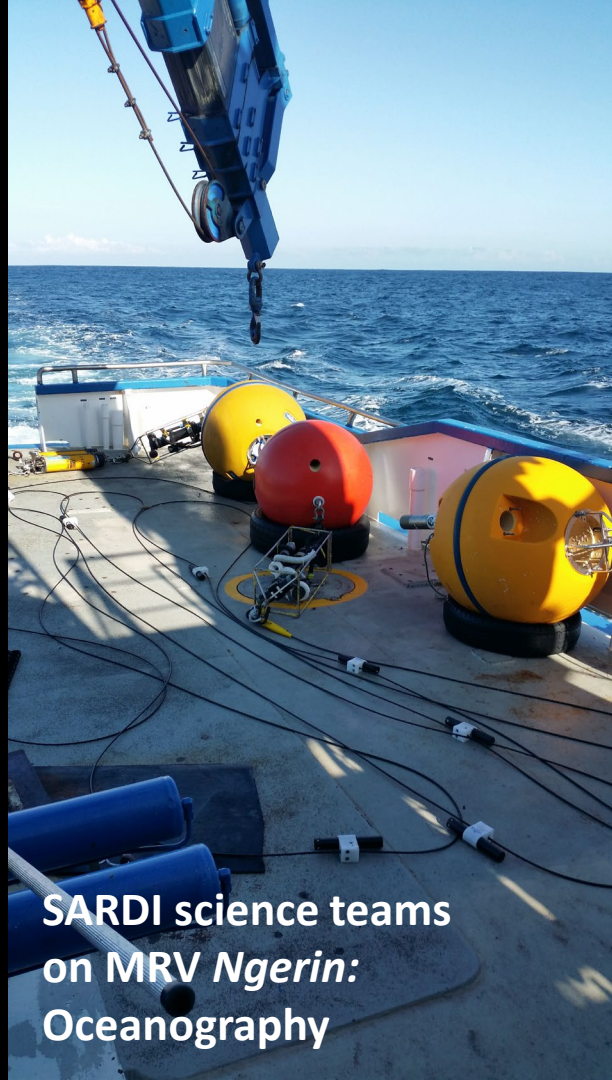
MRV Ngerin:
Needs to be replaced!

**SARDI science teams
on MRV *Ngerin*:
Fisheries**



SARDI science teams
on MRV *Ngerin*:
Marine Ecosystems



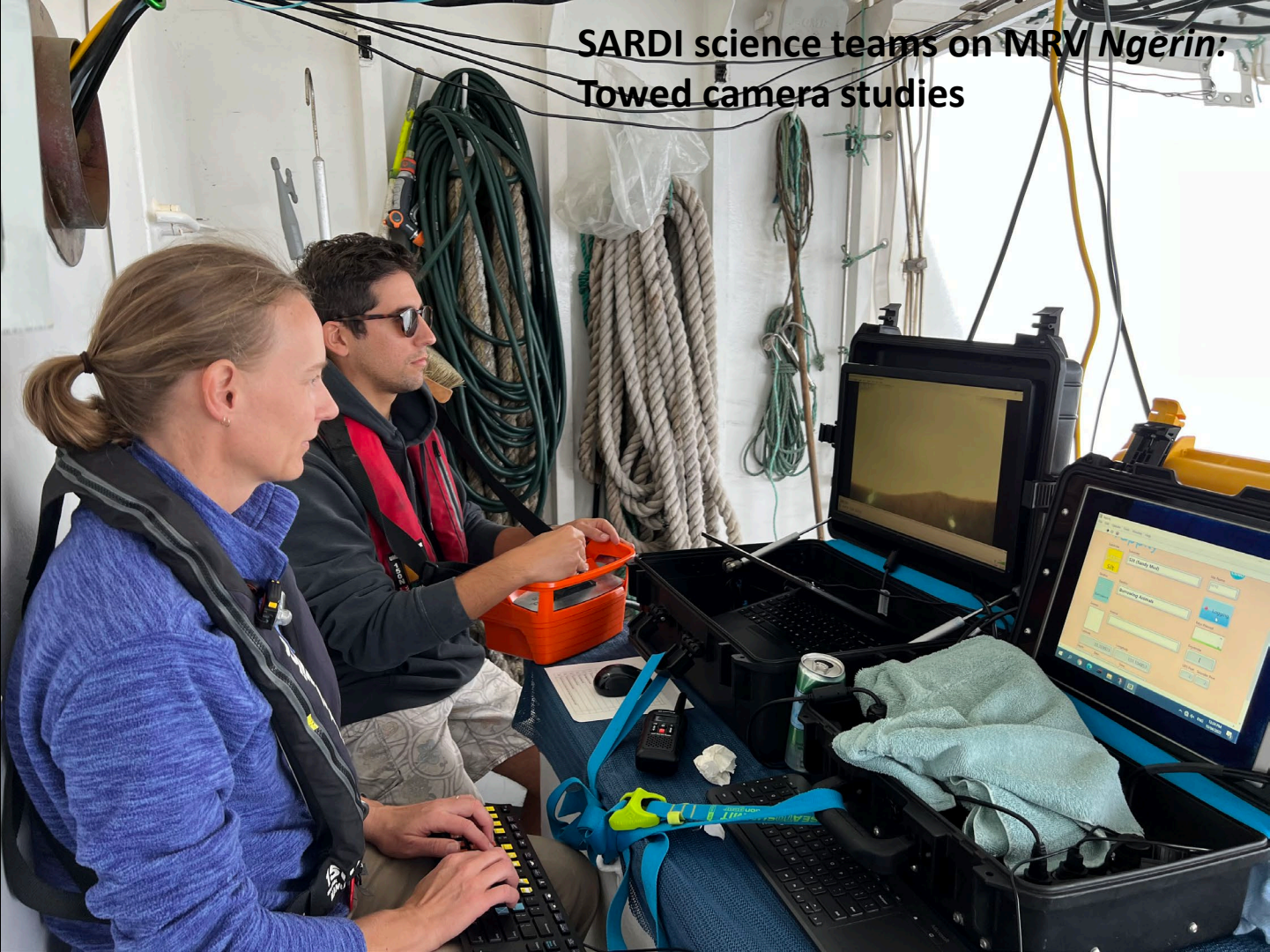


**SARDI science teams
on MRV *Ngerin*:
Oceanography**

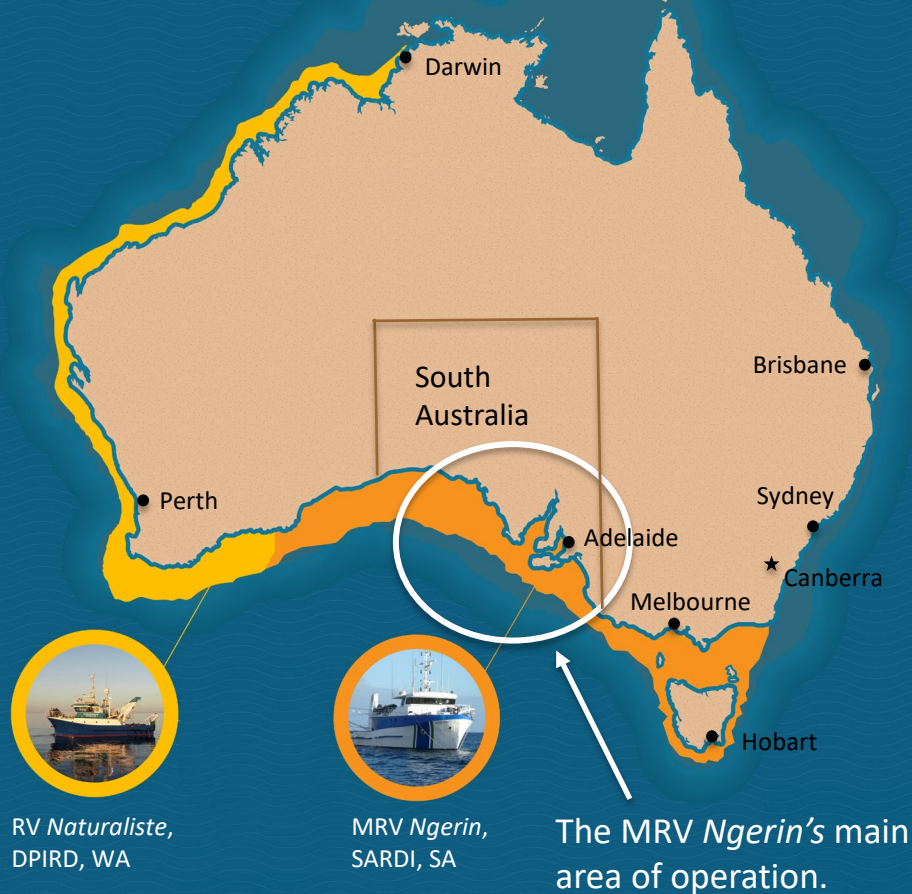
**SARDI science teams on MRV *Ngerin*:
Aquaculture Environmental Monitoring**



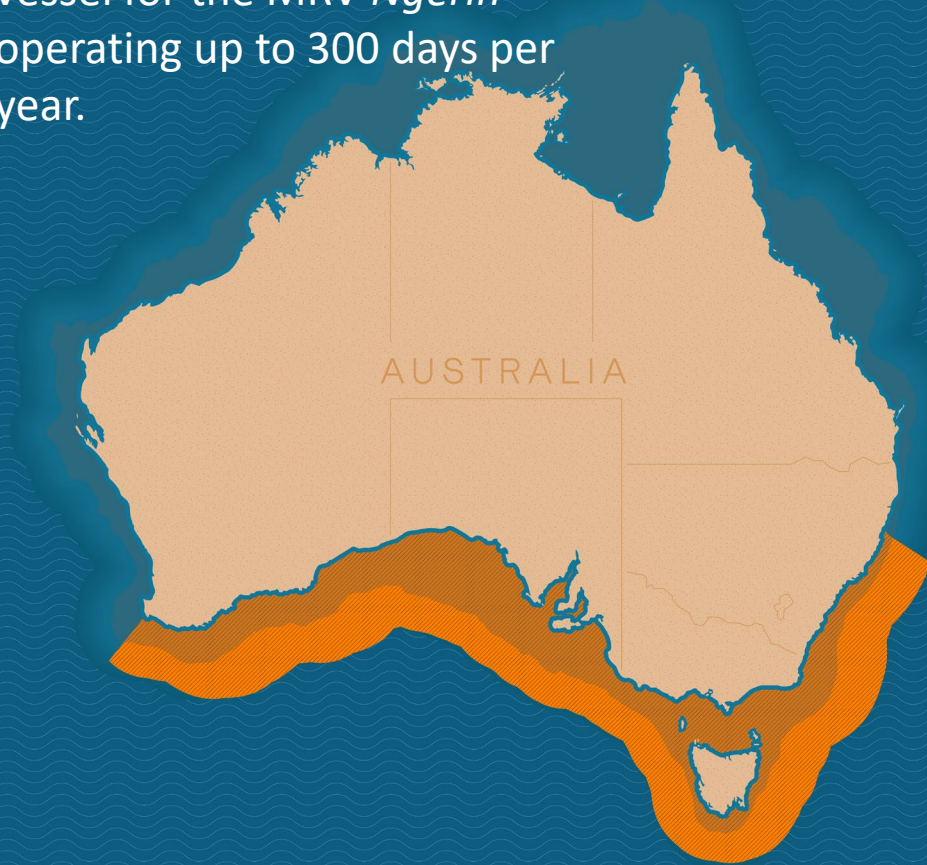
**SARDI science teams on MRV Ngerin:
Towed camera studies**



Limited coastal research vessel capability in southern Australia



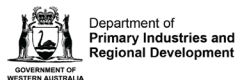
Operating area of replacement vessel for the MRV *Ngerin* – operating up to 300 days per year.



Southern Coastal Research Vessel Fleet



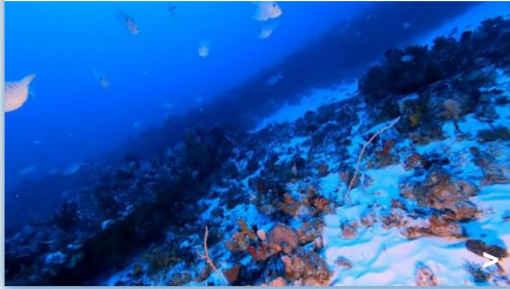
Improving access to existing vessels by providing competitive access to fully funded sea time. This may include the use of 18-20m patrol and research vessels in the region to support in-shore work.



Southern Coastal Research Vessel Fleet

Quantifying seabed habitats, April 2023

Focusing on the Murray Marine Park, this voyage aimed to fill key information gaps in our knowledge of the extent and distribution of seabed habitats for continental shelf regions of temperate Australia.



Baseline monitoring of seagrass and macroalgal habitats, April 2023

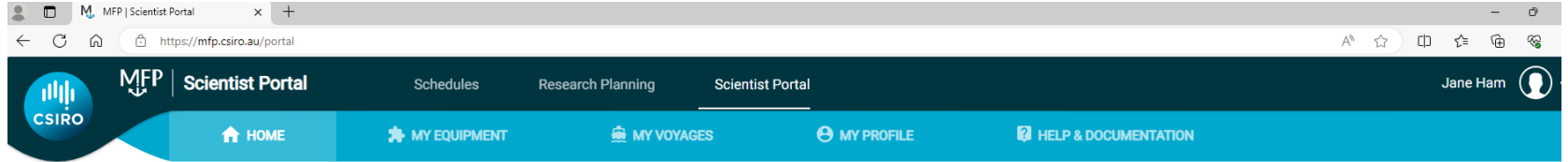
Priority areas across Denham Sound (Shark Bay) were surveyed, many for the first time, collecting fundamental data to improve our understanding of the structure and function of seagrass and algal habitats.



Supporting
research of
national benefit.

pir.sa.gov.au/research-vessels

Marine Facilities Planning

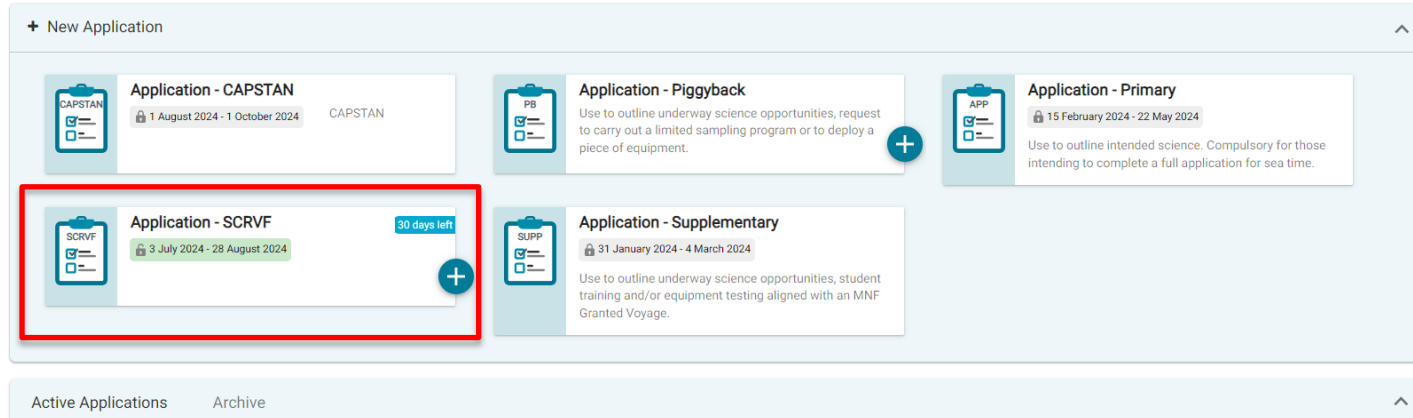


Hello Jane Ham,

Welcome to Marine Facilities Planning (MFP), the CSIRO's online application and planning portal where you can apply for ship time as well as manage your voyages, personal equipment and profile.

All scheduled voyages can be seen by viewing the [Schedule](#).

For help in completing an application or general use, please refer to the [Help & Documentation](#) tab above.



+ New Application

- Application - CAPSTAN**
1 August 2024 - 1 October 2024
CAPSTAN
- Application - Piggyback**
Use to outline underway science opportunities, request to carry out a limited sampling program or to deploy a piece of equipment.
- Application - Primary**
15 February 2024 - 22 May 2024
Use to outline intended science. Compulsory for those intending to complete a full application for sea time.
- Application - SCRVF**
3 July 2024 - 28 August 2024
30 days left
- Application - Supplementary**
31 January 2024 - 4 March 2024
Use to outline underway science opportunities, student training and/or equipment testing aligned with an MNF Granted Voyage.

Active Applications Archive

Assessing replacement vessel needs and capabilities



Internal discussions
(SARDI)



National survey
(marine research
community)



Direct stakeholder
engagement



RVONZA and IRSO

Replacement vessel requirements

Enhanced capability

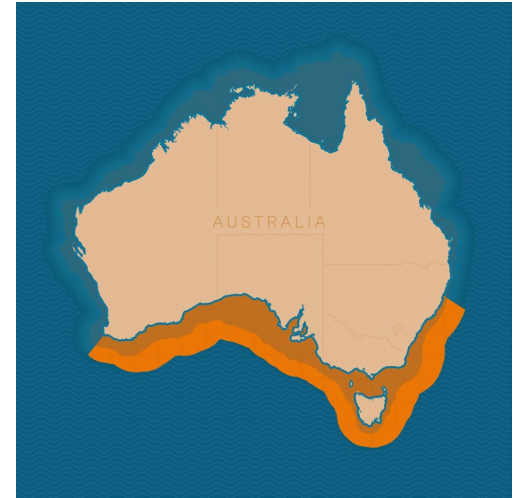
Upgraded facilities

Extended endurance and geographic range

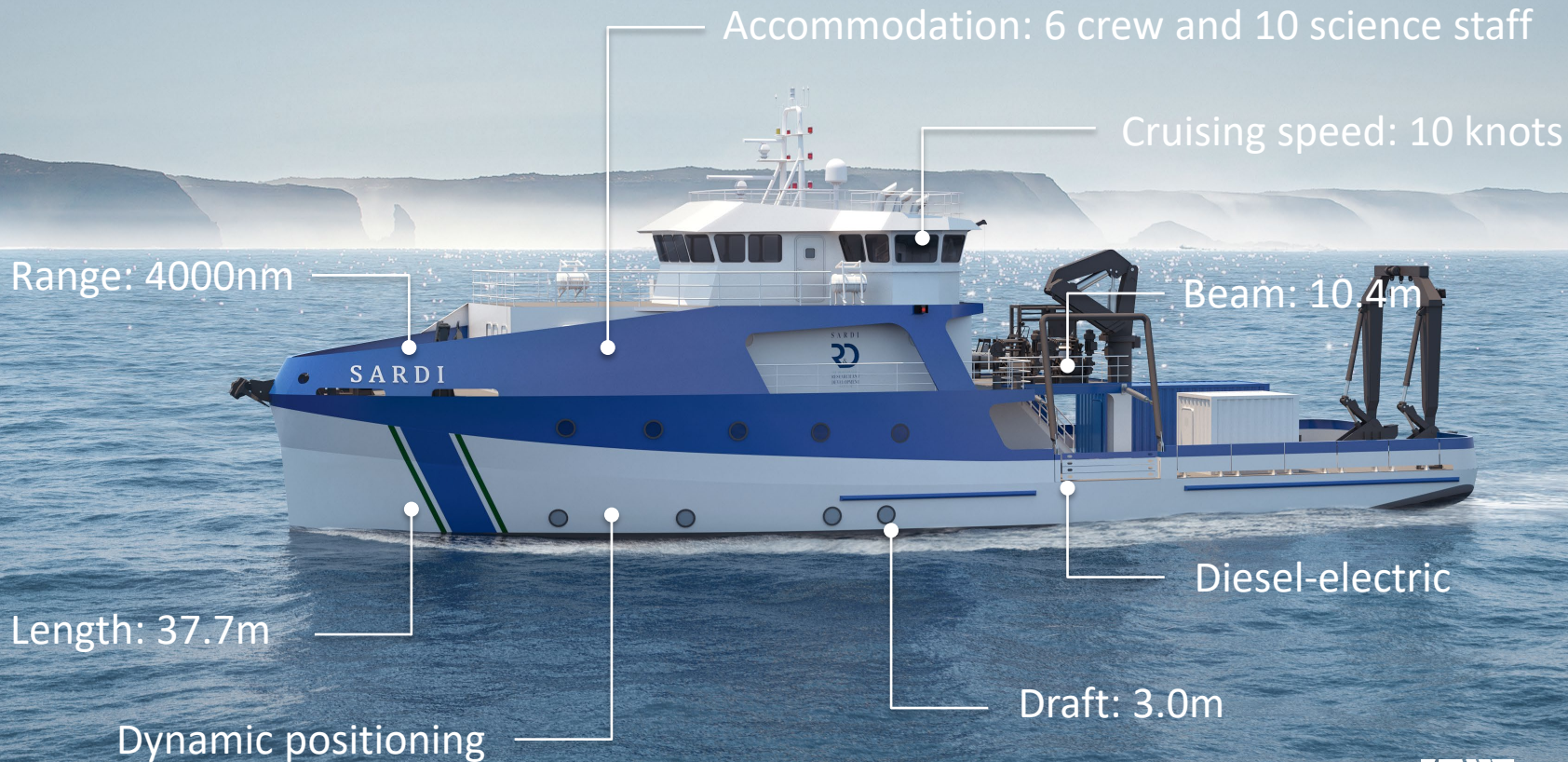
Operate up to 300 days per year

Energy efficient vessel

<500 tonnes



Concept design for replacement vessel



Concept design for replacement vessel



Modular capability

Maximised A-frame

Large open aft deck

Concept design for replacement vessel

Increased accommodation

Generalised lifting frame

Battery room for energy storage

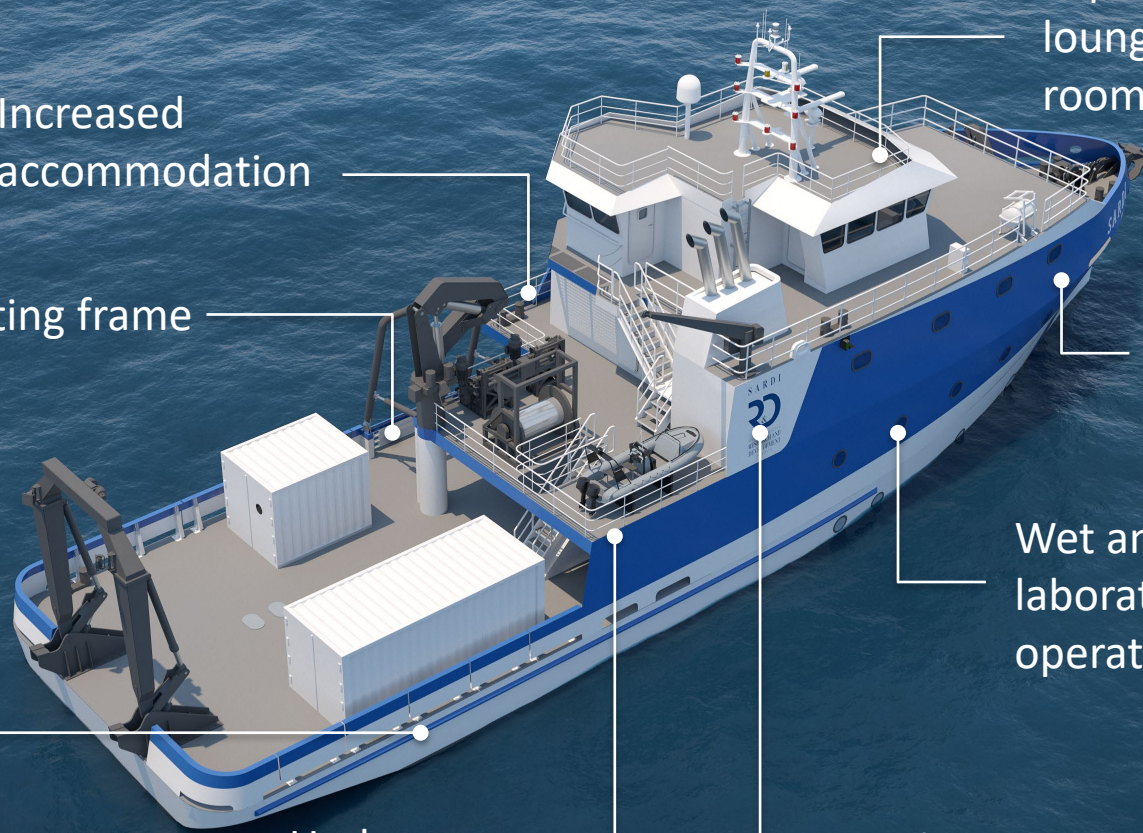
Undercover work area

Separate mess and lounge area/meeting room

Acoustically optimised

Wet and dry laboratories/research operations room

Change room



Thank you

