



THE ROV PROGRAM

Extending Human Reach — Safely and Responsibly



To expand scientific access, documentation, and accountability to depths and locations beyond safe human diving.

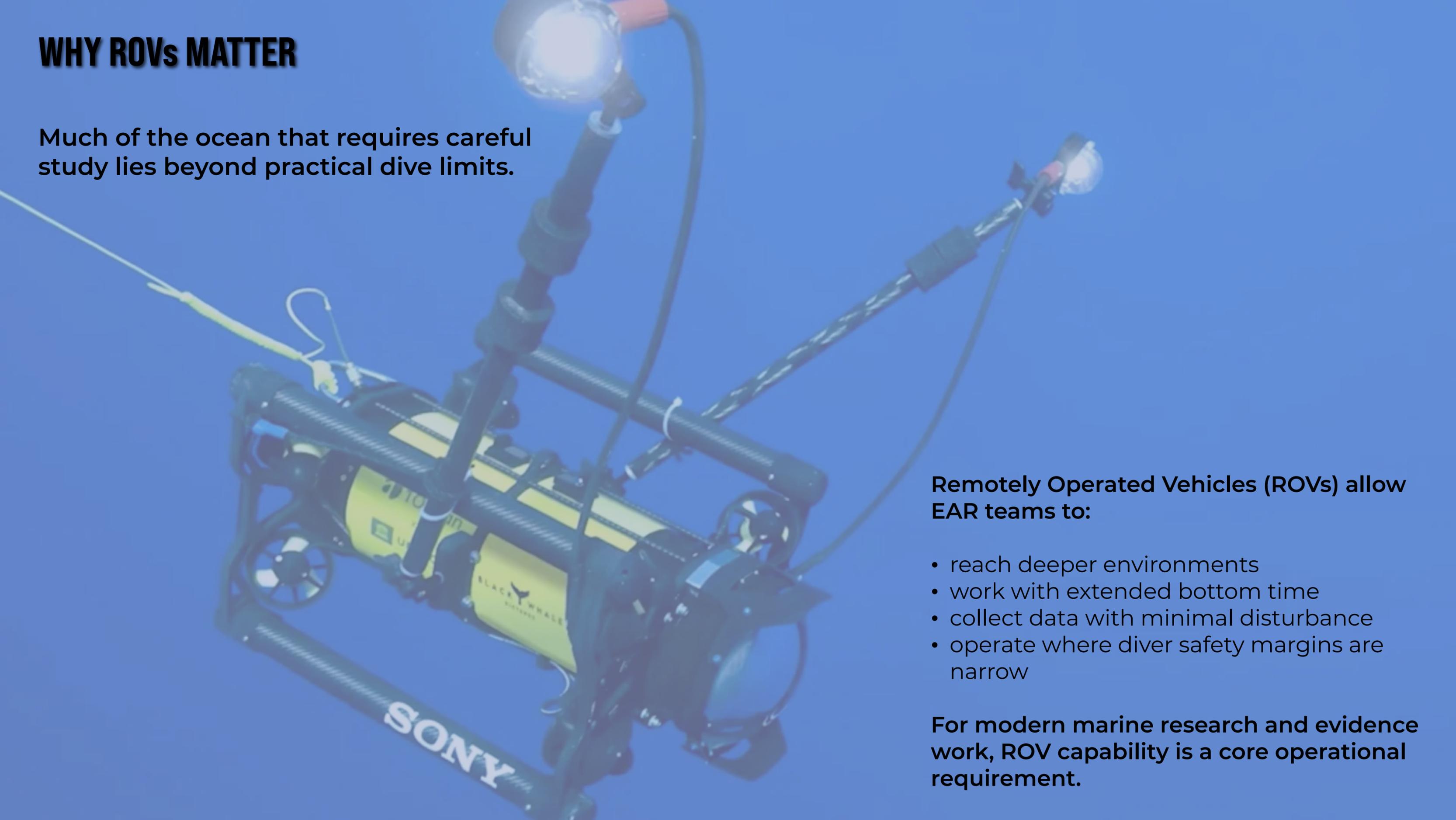
WHY ROVs MATTER

Much of the ocean that requires careful study lies beyond practical dive limits.

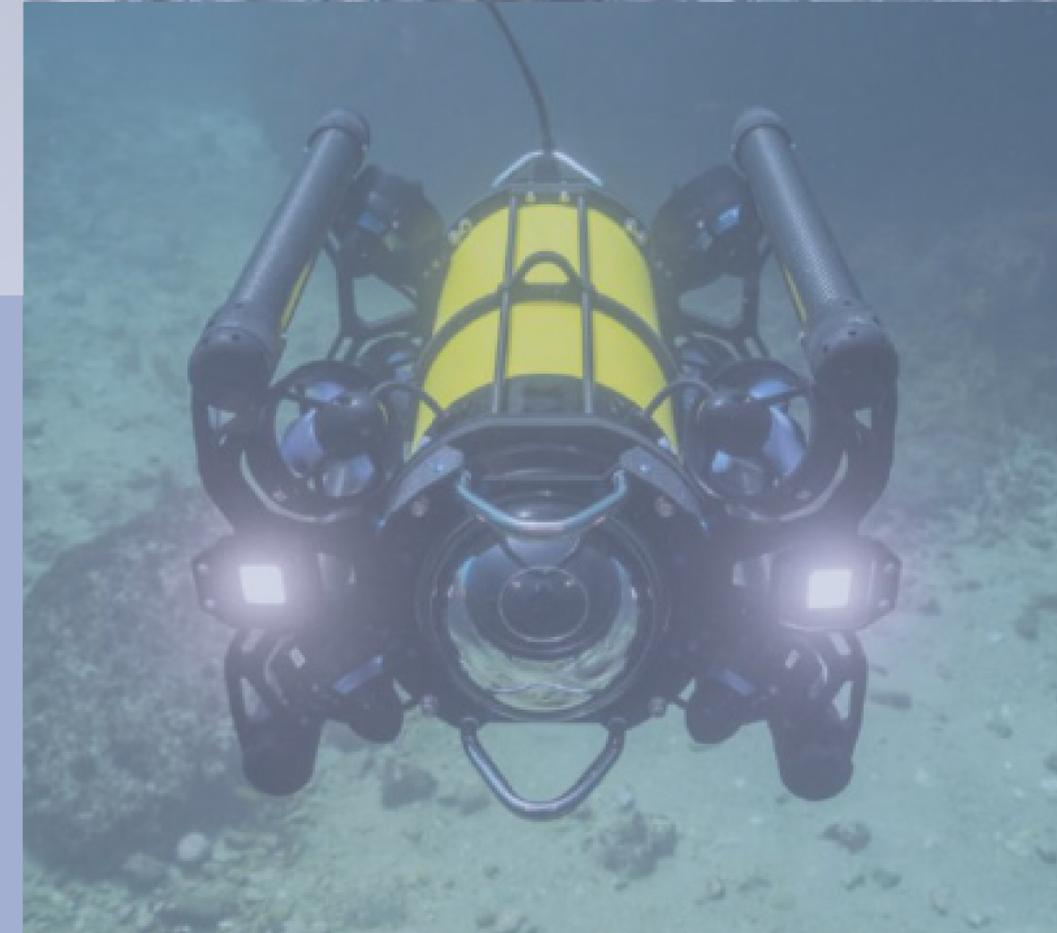
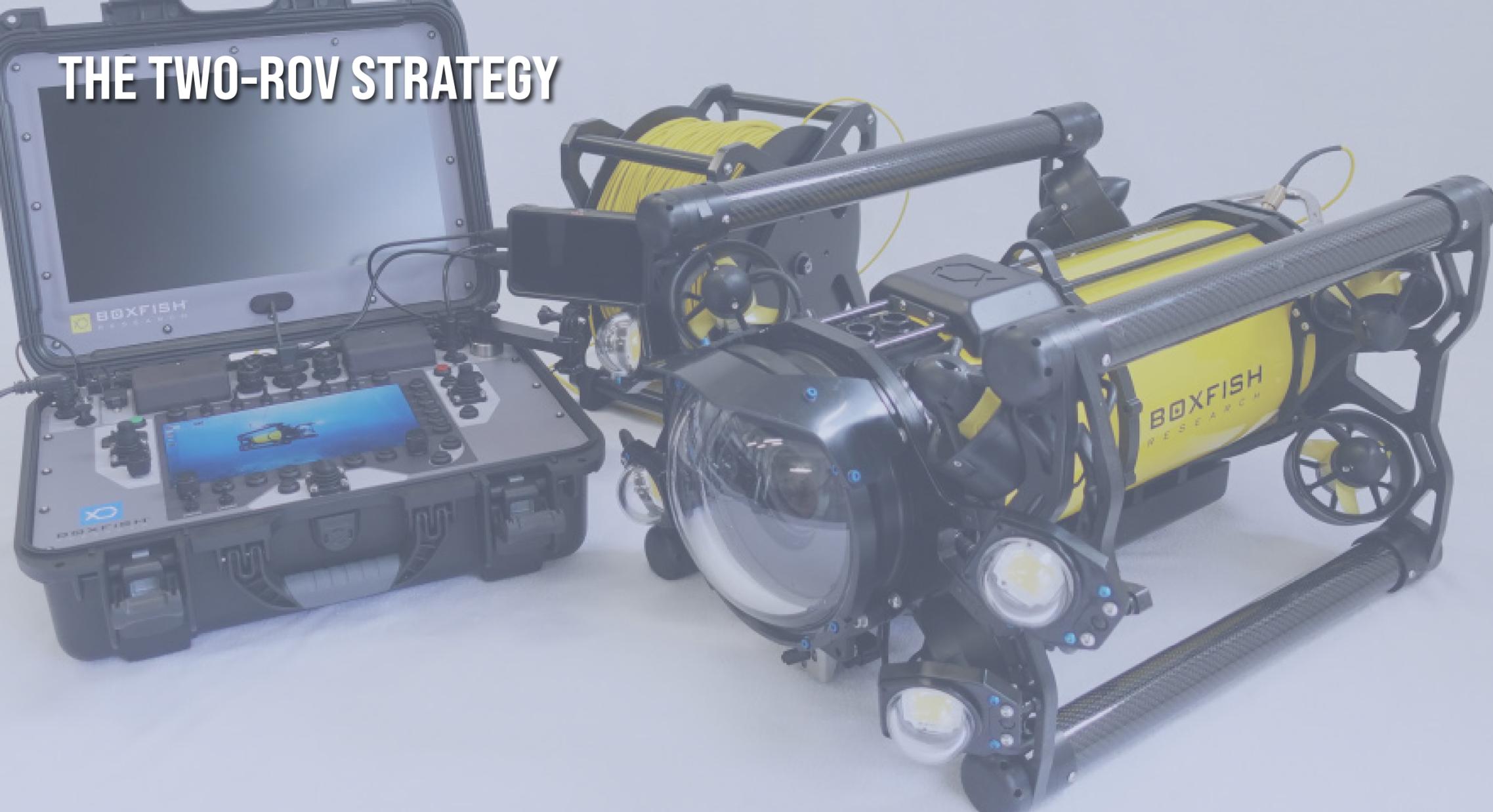
Remotely Operated Vehicles (ROVs) allow EAR teams to:

- reach deeper environments
- work with extended bottom time
- collect data with minimal disturbance
- operate where diver safety margins are narrow

For modern marine research and evidence work, ROV capability is a core operational requirement.



THE TWO-ROV STRATEGY



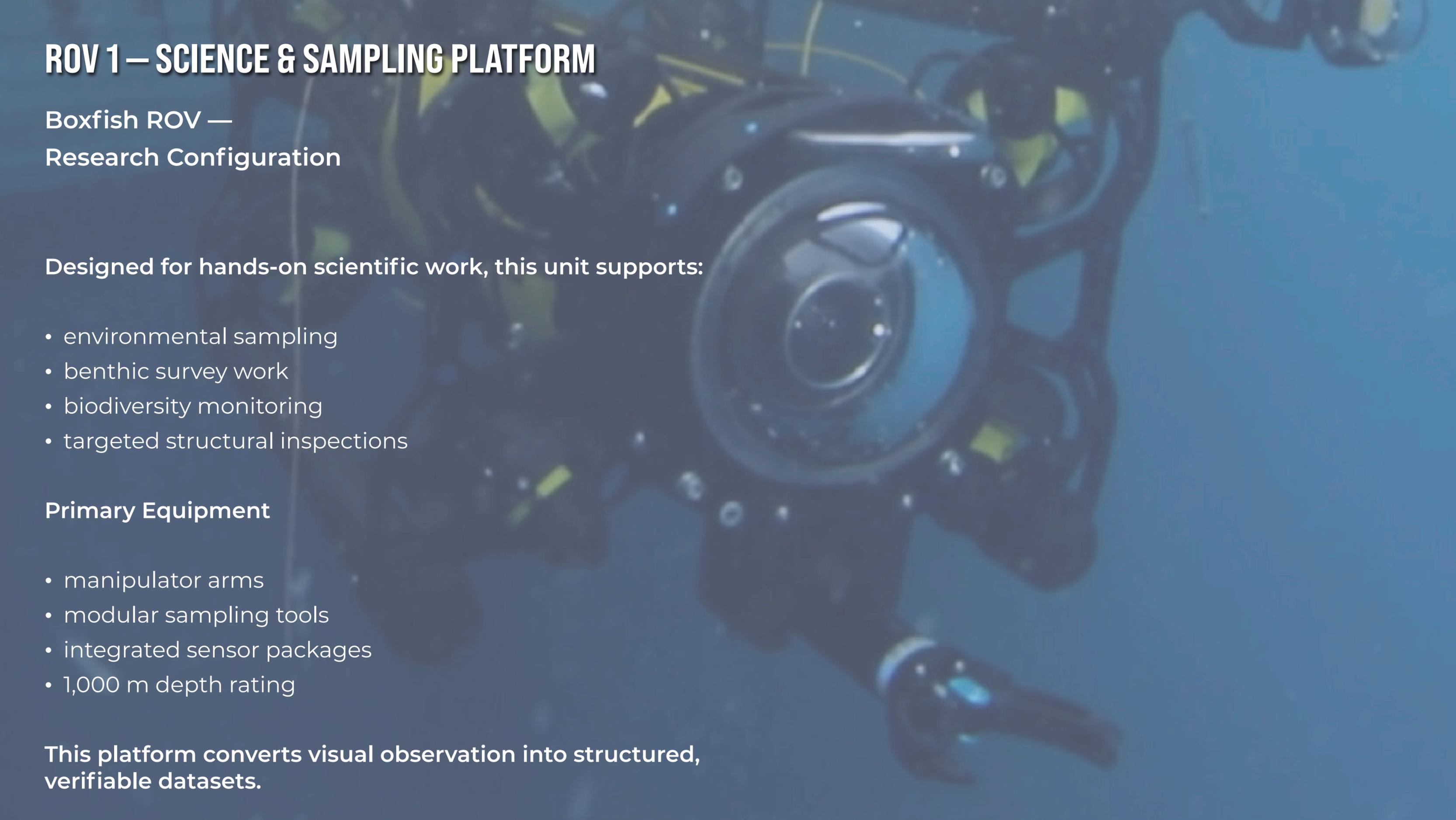
EAR is deploying a paired Boxfish ROV system, each unit rated to 1,000 metres.

This dual-platform approach provides:

- operational redundancy
- mission continuity
- recovery capability if one vehicle becomes disabled
- flexibility across simultaneous tasks

The objective is steady field capability rather than reliance on a single asset.

ROV 1 — SCIENCE & SAMPLING PLATFORM



Boxfish ROV — Research Configuration

Designed for hands-on scientific work, this unit supports:

- environmental sampling
- benthic survey work
- biodiversity monitoring
- targeted structural inspections

Primary Equipment

- manipulator arms
- modular sampling tools
- integrated sensor packages
- 1,000 m depth rating

This platform converts visual observation into structured, verifiable datasets.

ROV 2 – DOCUMENTATION & STORYTELLING PLATFORM

Boxfish Luna — Cinematic Configuration



Purpose-built for:

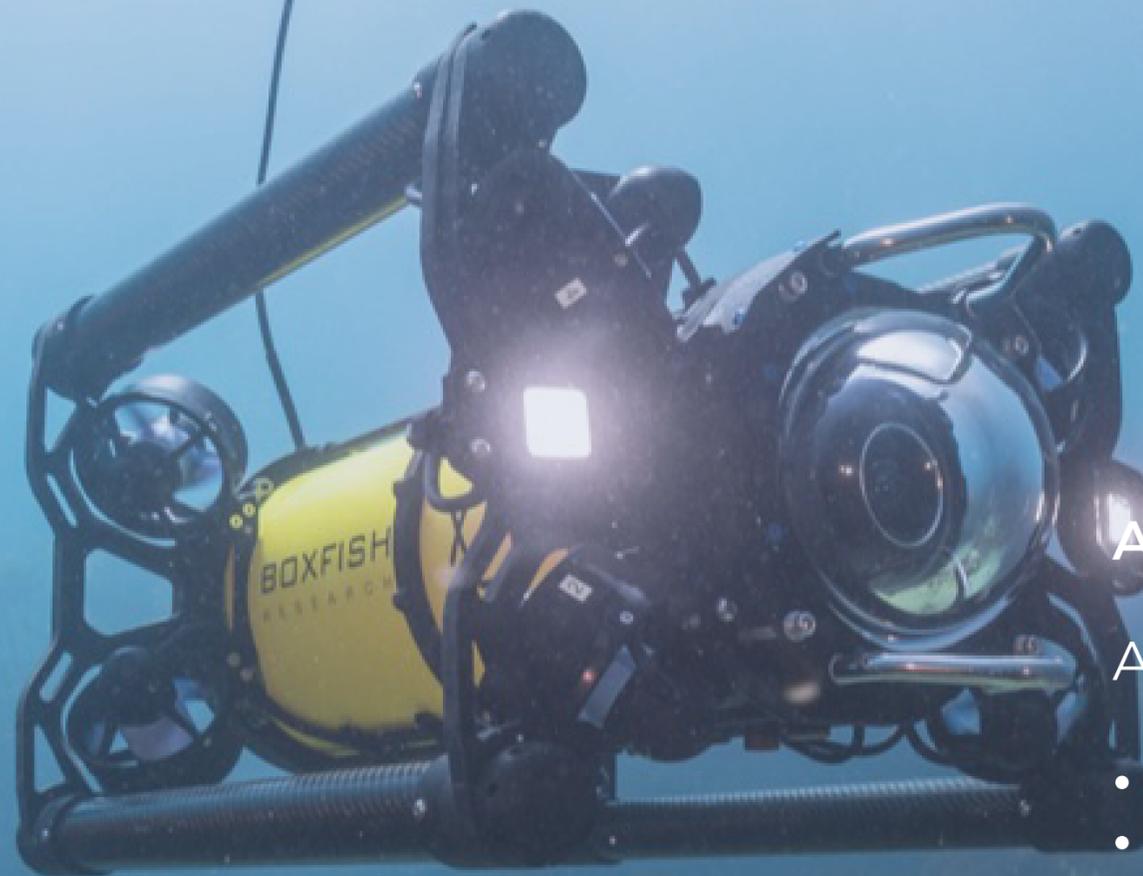
- high-quality underwater imaging
- biodiversity documentation
- evidence capture
- public education media
- outreach content

Primary Equipment

- cinema-grade camera systems
- stabilisation and lighting suite
- matched 1,000 m depth capability

This vehicle ensures field science can be clearly documented and responsibly shared.

WHY TWO MATTERS



A single ROV introduces operational fragility.

A paired system allows EAR to:

- run parallel mission tasks
- maintain continuity during maintenance cycles
- safeguard critical datasets
- support vehicle-to-vehicle recovery if required
- protect donor-funded equipment in the field

This structure supports consistent deployment rather than episodic access.

ACCESSIBILITY & CONTINUITY

When Diving Is Not the Limiting Factor

In 2021, Founder and Expedition Leader Christopher Redman sustained a traumatic brain injury that ended his ability to conduct scientific diving.

ROV operations ensure continued direct engagement in:

- expedition leadership
- scientific oversight
- mentorship of early-career researchers
- responsible underwater documentation

This programme preserves field experience and leadership continuity across the organisation.



WHAT THIS ENABLES



With paired ROV capability, EAR can:

- expand deep-water research coverage
- support Indigenous-led marine monitoring
- document environmental conditions with verifiable imagery
- train youth and emerging scientists
- operate in higher-risk environments without diver exposure

ROV deployment strengthens the effectiveness of every field mission.

THE ASK

Programme Objective

- Paired Boxfish ROV systems
- Research + documentation configurations
- 1,000 metre capability each

This is mission infrastructure designed to support long-range field operations and sustained data collection.



Two ROVs. One mission. No single point of failure.

The Invitation



Supporting Sub-Surface Access

The ROV Programme expands EAR's ability to document, study, and share conditions below the surface.

We are engaging partners who value careful, field-based science and long-term operational capacity.

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