



**ROBOTS WITHOUT TETHERS,
THAT'S REAL FREEDOM.**

JUL 2023

nauticus
robotics

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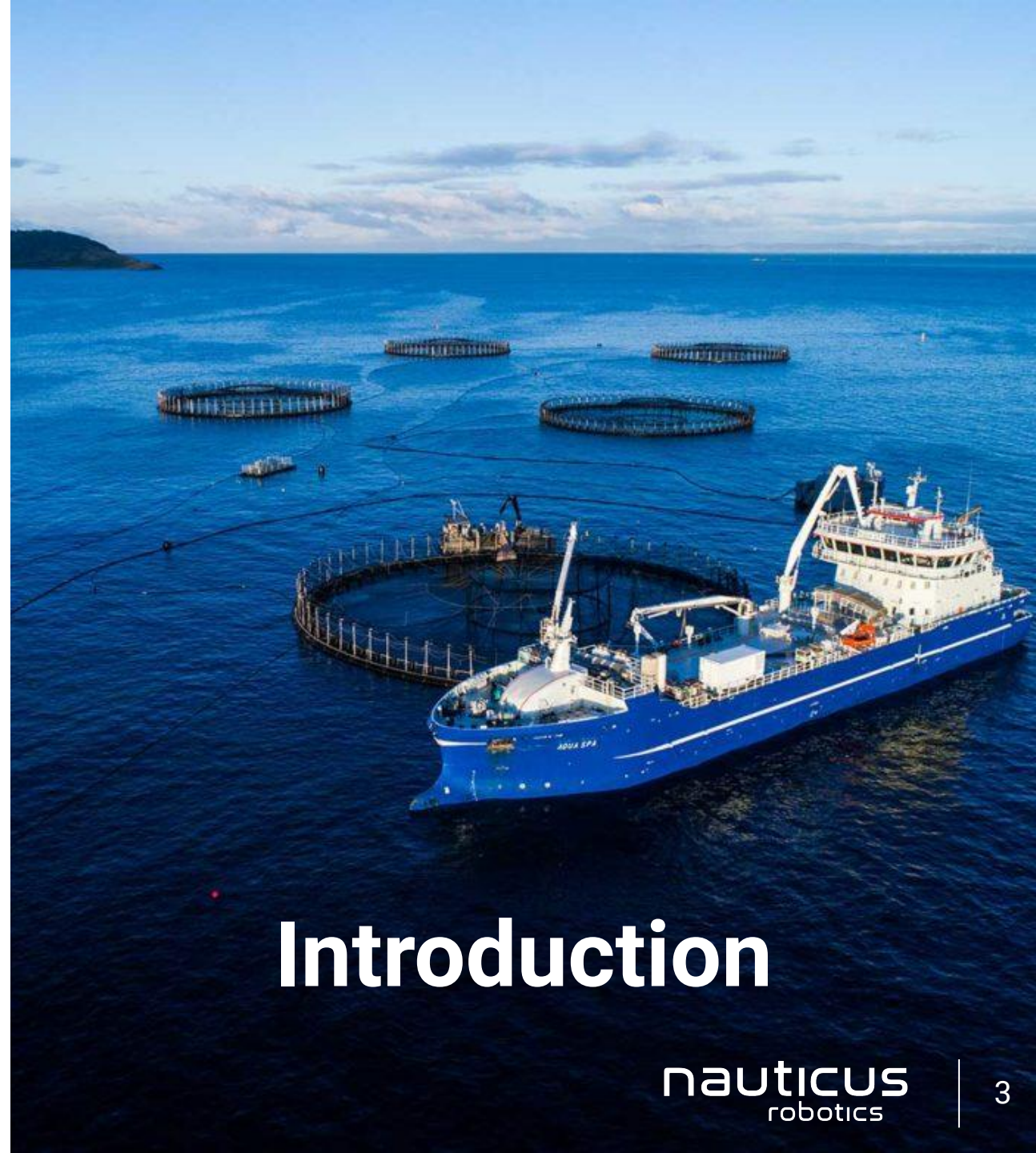
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“Business-as-usual growth of economic activities in the ocean is not an option for the future”

- OECD, 2016

In the Gulf of Mexico and the North Sea, **there is enough oil and gas infrastructure to circle the earth, two and half times**. Over the decade, there will be **over 1 trillion dollars worth of windfarms installed** and maintained offshore. Studying climate change will require significant amounts of time spent at sea collecting data. Sustainable fish farming needs to grow at **an exponential pace**. Allied navies and defense groups are faced with a modern technology landscape using autonomous **drones for intervention**. All these tasks will be installed, maintained, operated, serviced, and supported with underwater robots.

However **costly infrastructure and scores of people working offshore are no longer viable** for routine work in the ocean. Nauticus will drive and capitalize on this transformation and become the leading maritime robotics company.



Introduction

DISRUPTABLE TARGET MARKET



Total Addressable Market

\$30B

Serviceable Obtainable Market

\$6B

ENERGY



Today, manned service vessels are used to service the offshore energy sectors. Mega-trend toward surface & subsea robotics to be supervised and operated from shore.

PORT MANAGEMENT



Growing need for persistent robotic presence in ports and harbors to monitor ship traffic and costal impacts.

AQUACULTURE



Current operations for sea-based aquaculture farms are highly dependent on manual labor and divers. Autonomous robotics systems and remotely controlled operations are growing in need for the rapid increase in global fish farming.

OCEAN DEFENSE



Multi-role UUVs that can travel large distances and gather information, have high maneuverability, and an ability to intervene. Desire to increase standoff distance of the warfighter.

CURRENT OFFERING HAS DRAWBACKS

Vessels in UK will pay a
50% fuel tax by 2030
and 100% by 2035

Emits up to
70MT CO₂ /
day

Maintenance-heavy
umbilicals

Antiquated machines
with little to no advanced
technology

Risks the safety of scores
of people offshore

Up to \$100K/day

Vessel could be the size
of a football field

Leaky hydraulics are a
recordable incident at
even small level of spills
and leaks

Representative incumbent technology and industry

SIZE DOES MATTER

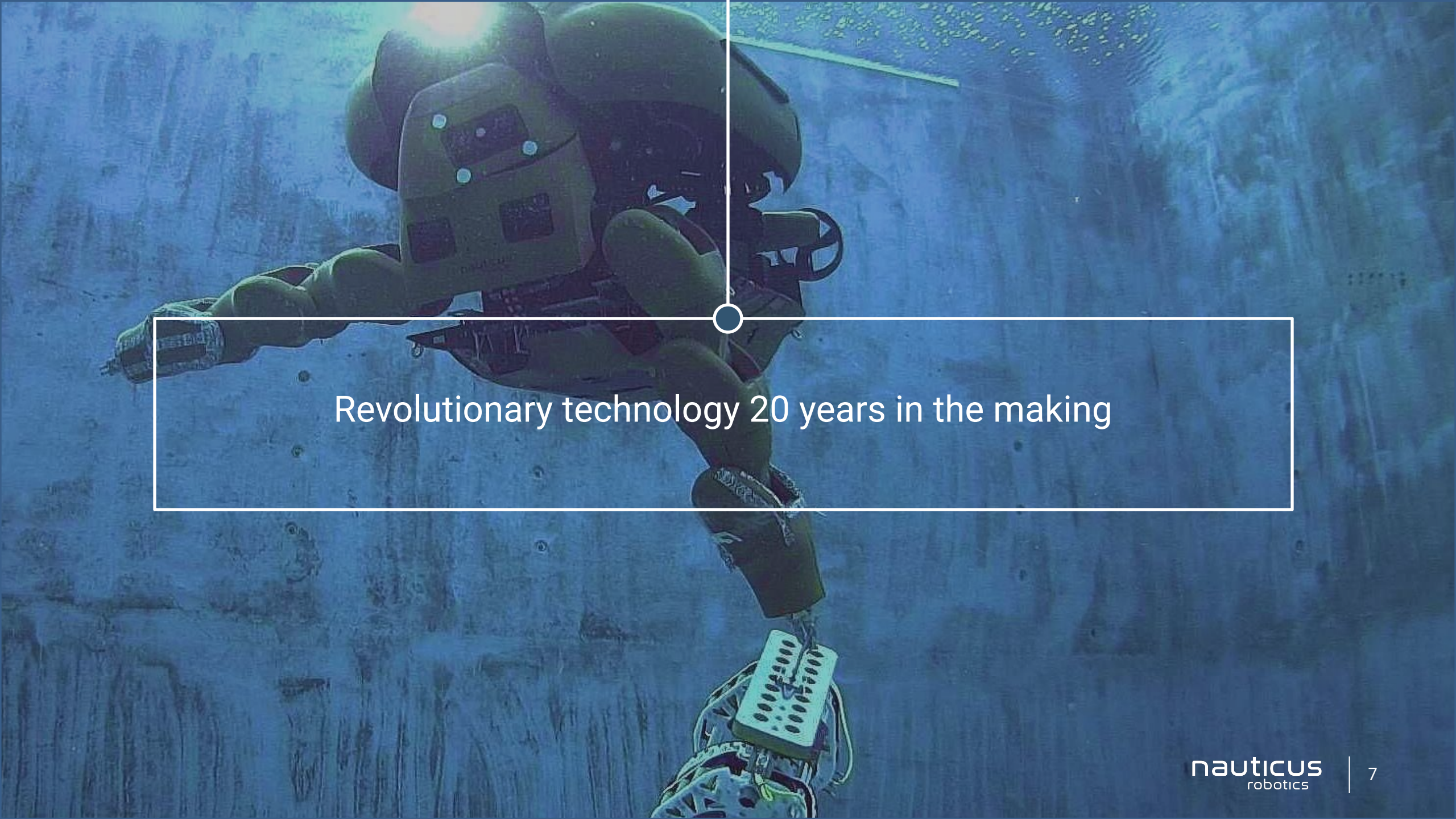


Offshore
Service Vessel
CO₂/day: **40-70mt**

94-97%
Improvement in CO₂
emissions

- | | |
|---------------------------------------|----------------------------------|
| Aquanaut without umbilical eliminated | □ large vessel can be |
| Aquanaut with manipulation | □ can execute 80% more work |
| Aquanaut with more power | □ can travel 3X farther |
| Aquanaut & Hydronaut | □ can execute multiday campaigns |

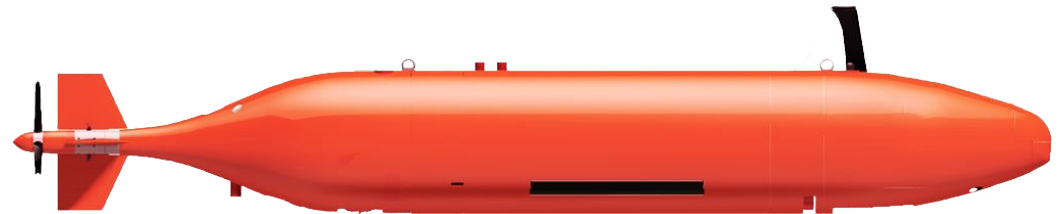
LEADING MARINE ROBOTICS AUTONOMY



Revolutionary technology 20 years in the making



Common underwater vehicles



**Inspired by NASA's approach
to mobile manipulation**

AQUANAUT PLATFORM OVERVIEW

Aquanaut has an ROV and AUV mode built into **one electric platform** using the latest in autonomous manipulation and inspection technologies.

INSPECTION MODE

Intelligent mission planning

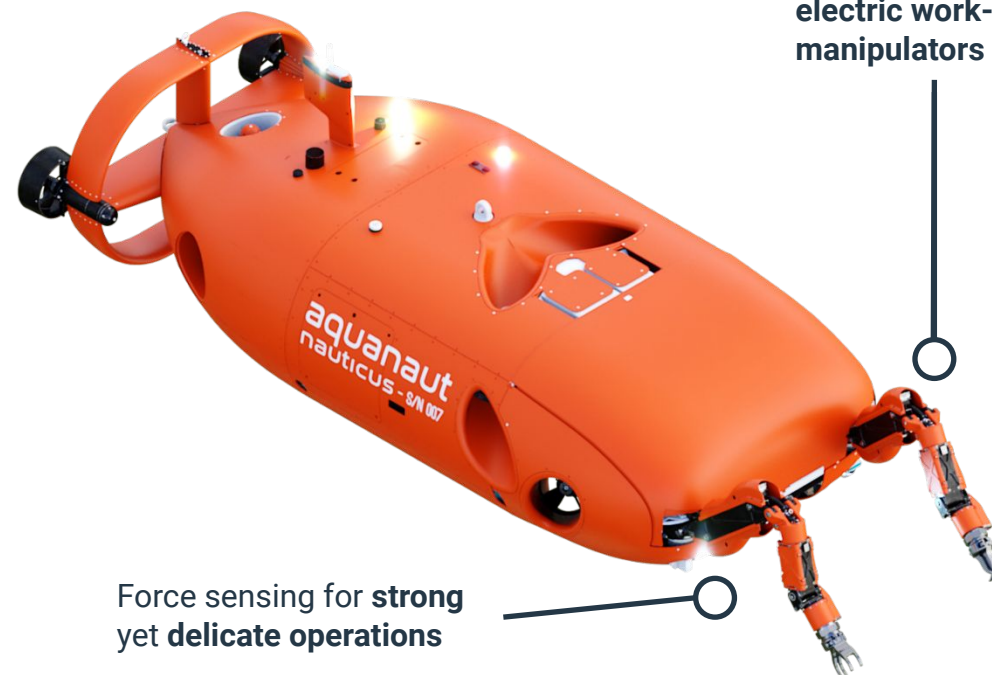


Electric subsea vehicle with **100kWhr** Li-ion battery and **200km range** and **long work endurance**

Advanced perception head with **structured light**, **stereo cameras**, and multiple **3D sonars** imagers

INTERVENTION MODE

Supervised autonomous manipulation



Two *deployable* **electric work-class manipulators**

Force sensing for **strong** yet **delicate** operations

Case Study:

Nauticus servicing UK Offshore Windfarms

Serviceable Addressable Market

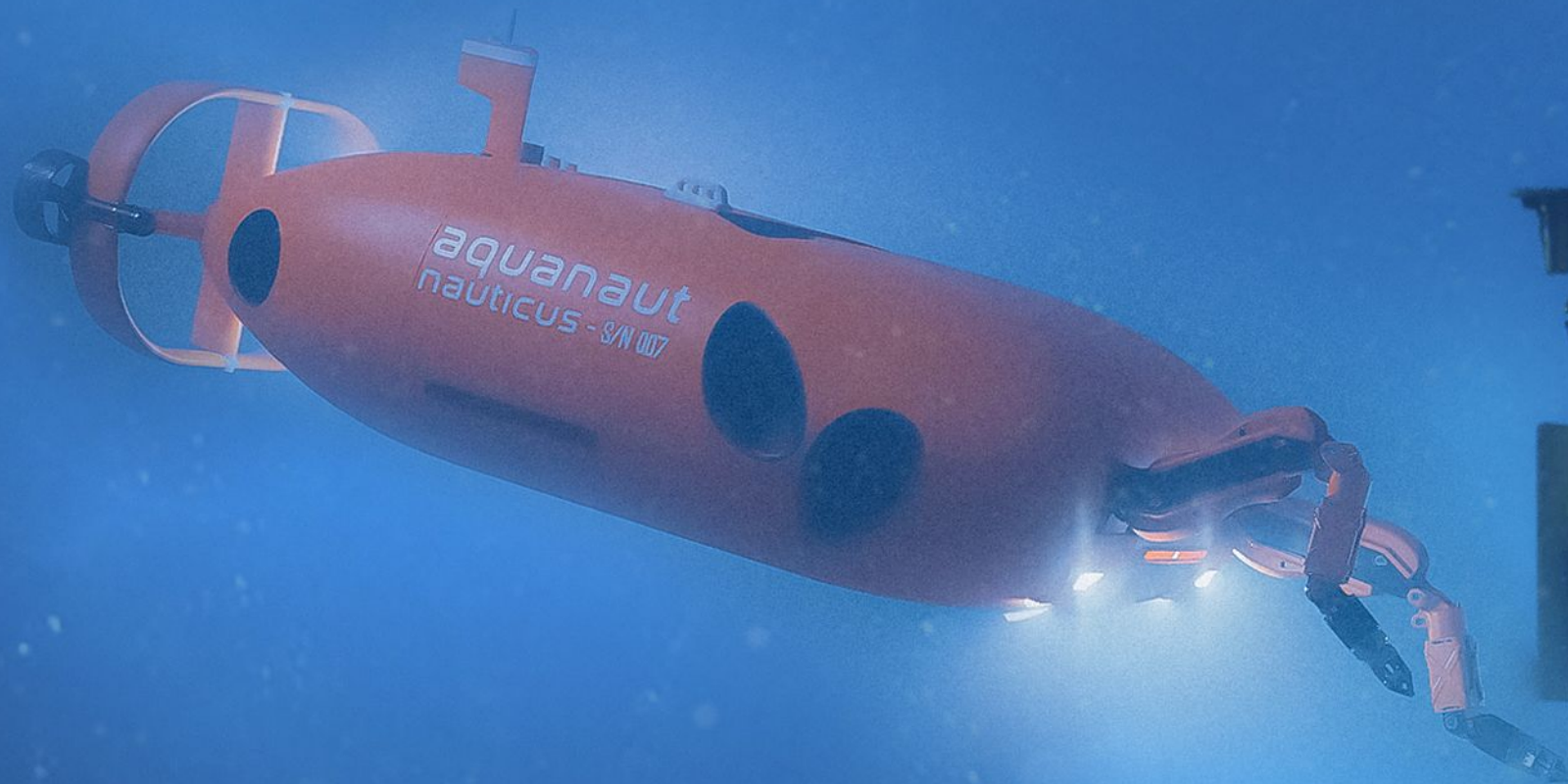
\$22mm of Inspection, Maintenance, and Repair activities required **per 1 GW** of installed fixed offshore wind within the capabilities of Aquanaut. UK has **12.7 GW** installed and adding about **2.5GW per year**. Therefore, addressable market for **UK is \$280mm or 35 Aquanauts**.

Serviceable Obtainable

If we could **capture 10% in 2 years** - **that's a total need for 7 Aquanauts for UK Wind alone**.

Note:

As of 2021, worldwide, there was **56GW** of installed offshore windfarms equaling a need for **over 200 Aquanauts**.



Creating the most impactful ocean robotics company through autonomous systems

A HIGH GROWTH, BLUETECH ROBOTICS AS A SERVICE COMPANY

Management



Nicolaus Radford
CEO



Rangan Padmanabhan
CFO



Donnelly Bohan
COO



JD Yamokoski, PhD
CTO



Dilshad Kasmani
CLO

Awards and Features

Forbes



MTR100 Companies to Watch
HBJ Companies to Watch

Investors



Transocean

Schlumberger



Goradia Capital LLC



material
impact

Partners



VideoRay



leidos



DEFENSE
INNOVATION UNIT



STINGER
technology



ISE
International
Submarine
Engineering Ltd.

POSITIONED TO BE THE LEADER IN MARITIME AUTONOMY AND ROBOTICS FOR THE ENERGY TRANSITION.

Market Opportunity

The emerging \$30bn bluetech robotics, services, and data markets are fragmented and ripe for disruption.

Energy Transition

The \$2.5Tn blue economy is currently going through a blue robotics transformation.

Disruptive Technology

Applying spaceflight robotics technologies to the maritime and subsea domains.

Autonomy

First subsea product to deploy robust machine intelligence and autonomous behaviors for dexterous manipulation.

World-class Team

Developed by ex-NASA engineers & roboticists coupled with industry experts from ocean and energy sectors.

Platforms

Tetherless electric robots displacing hydraulic ones that are operated from large vessels with significant GHG emissions.



Nauticus provides 21st century ocean robotic technologies to **combat climate change and the global impact on the world's marine environment**. Our purpose-built, interconnected product ecosystem of both surface and subsea robots is wrapped in our autonomous software platform that **affords our robots real machine intelligence**, not just automation.

This approach is leading the industry's transformation to an **economically efficient and environmentally sustainable model**. We built our technology and product portfolio with a clear vision: there might be seven seas, but there's only one planet and **we're all in this together**.

KEY INVESTMENT HIGHLIGHTS

Preeminent, bluetech robotics company leading the industry in sustainability

Market Opportunity

The blue economy is currently going through a robotic transformation

- **\$2.5 trillion/year** ocean economy (5% of the global GDP)
- Estimated value of key ocean assets is **several trillion dollars**

The emerging **\$30bn** ocean robotics, bluetech, and ocean data and services markets are ripe for technological disruption

Disruptive Technology

Developed by ex-NASA engineers with over a hundred million dollars of combined R&D investment over decades

Technology validated via both investments and contracts underwritten by large market players

Energy Transition Value Proposition

Scalable, highly profitable robotics-as-a-service business model

Reduces the carbon footprint and displaces vessels used in energy, telecom, aquaculture, mining and other industries – the equivalence of 5mm cars per year

Eliminates hydraulic fluids spilled in the ocean; fully electric platforms
Makes services safer by reducing human presence in unsafe offshore conditions

Financial Highlights

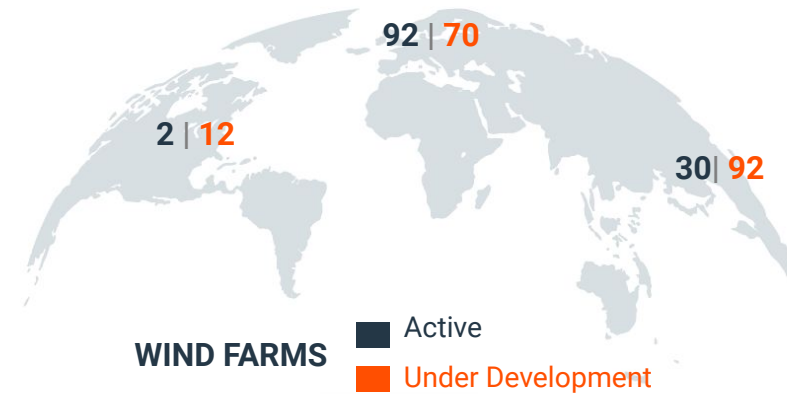
Visible revenue pipeline should drive **predictable future growth**

Robotics-as-a-service business model expected to generate **high-margin** revenue stream

World-class team of subject-matter experts highly motivated to replace the marine service industry with cloud-connected robots for intervention and data collection services

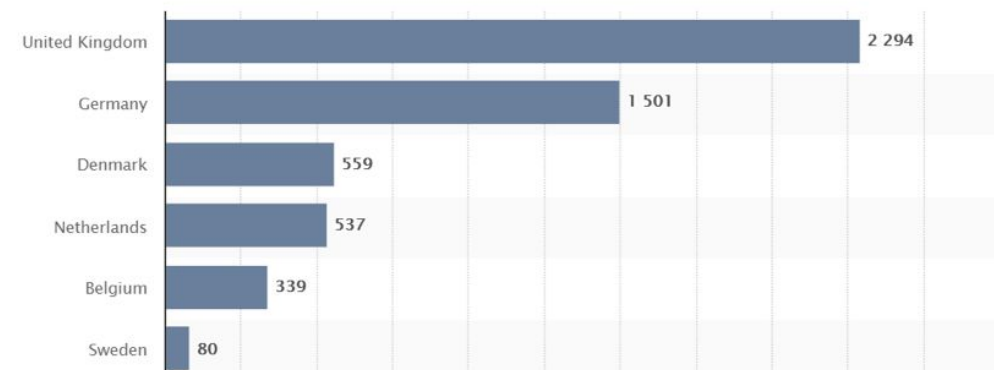
Strategic Board of Advisors include renowned leaders from academia, industry and defense

IMMEDIATE OPPORTUNITY OFFSHORE WIND



2030 Offshore US Targets : 30 GW from **7500 Turbines**

2020 Offshore Europe : 25GW from **5,310 Turbines**

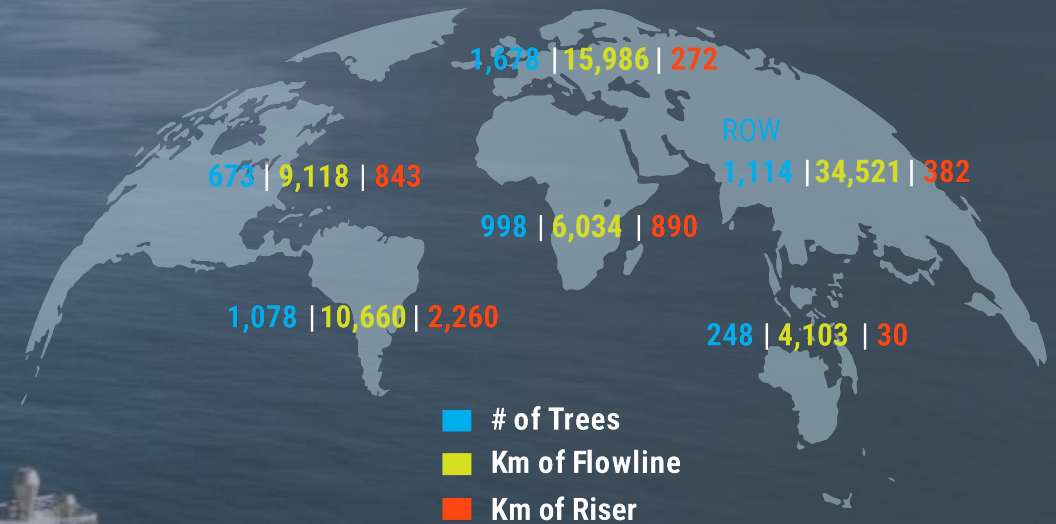


Inspection Demands
Long-term Growth Needs

>50 Aquanauts
>50 Aquanauts

IMMEDIATE OPPORTUNITY OIL & GAS

Worldwide Offshore O&G Asset Base



Offshore O&G Immediate need: >50 Aquanauts
Longer term needs: >50 Aquanauts

SECURITY AND DEFENSE

Top 20 of the major ports worldwide



Worldwide Port Applications:
50 Aquanauts

Worldwide Defense:
100 Aquanauts or similar subsea platform technologies



EMERGING AND GROWTH MARKETS

Data Centers

Autonomous Shipping

Aquaculture

Telecommunications

Subsea Mining

Biotechnology



CURRENT AND TARGET CUSTOMERS

High demand for fully electric and autonomous systems to help reduce emissions and control costs for ocean market activities

MARKET SEGMENTS

| | | |
|--|--|---|
|  Sustainable Energy |  Port Security & Management |  Subsea Data Centers |
|  Autonomous Shipping & GREEN Shipping |  GREEN Services |  Subsea Mining |
|  Aquaculture |  Offshore Cables |  Smart ROVS |

KEY AND TARGET PARTNERS AND TARGET CLIENT BASE

| | | | | |
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COMMERCIAL

Existing and newly constructed energy fields will utilize robotics to transit long distances and perform inspection and manipulation tasks in several related vertical industries.

GOVERNMENT

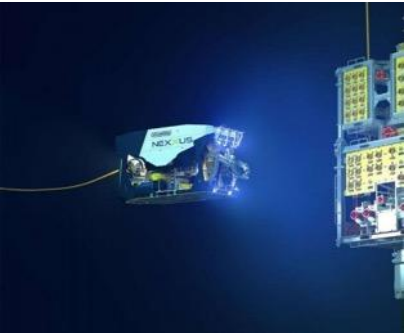
Subsea robots and drones are increasing rapidly in use and especially ones that serve multi-mission roles.

Ports have identified a need for persistent robotic presence to monitor the continuous ship traffic and climate impacts.

COMPETITIVE LANDSCAPE

Representative taxonomy of ocean robotics landscape. Aquanaut can operate as both an AUV and untethered ROV from an autonomous surface vessel

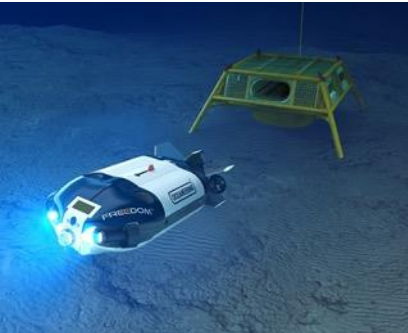
WORKCLASS ROV



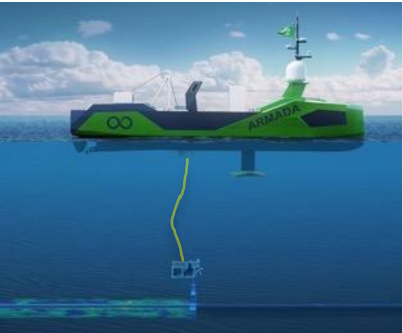
Tethered Manipulation



Non-hovering Survey



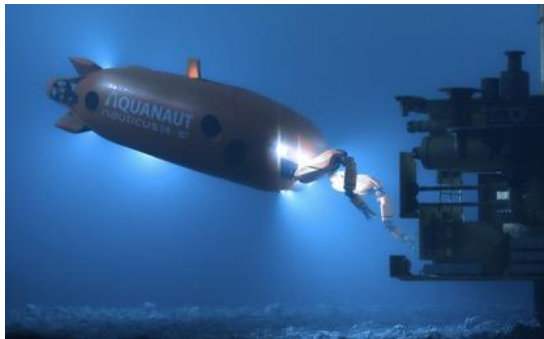
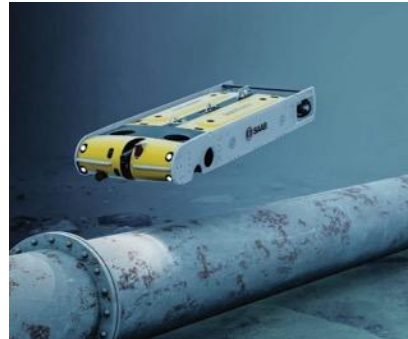
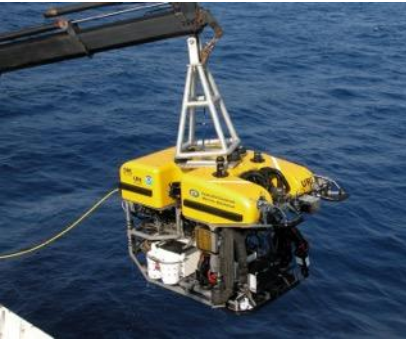
Hovering Inspection



Tethered ASV Solutions



Untethered Manipulation



ROBOTICS AS-A-SERVICE

KEY FINANCIAL METRICS

\$25-40k/day

REVENUE

200 days/year

ANNUAL UTILIZATION

\$5-8mm

ANNUAL REVENUE

70%

GROSS MARGINS

\$4-7mm

CAPEX



FEEDBACK AND TESTIMONIALS

Fortune 500 companies have validated Nauticus' approach. Example feedback:

Major X

"Nauticus' products such as Aquanaut and electric manipulators are viewed within [X] as technological developments 'ahead of the curve' of technology availability, breaking new ground in vision and operation. These technologies fully support [X]'s vision toward full automation, remote control and eventual unmanned operations – with all the benefits that delivers, such as lowering CO₂, risk, economics while also presenting exciting new areas of technology and 'ways of working' that will facilitate recruitment and retention of a new generation of personnel. Such remotely operated systems support both Oil & Gas infrastructure IMR, but also renewables and are hence of great interest to [X] as we also transition. Deployment of underwater vehicles such as the Aquanaut that offer greater functionality than a simple suite of geophysical sensors, aligns with our vision statement how such operations may be conducted."

Major Y

"This [Aquanaut] technology is an enabler. It's an enabler for unlocking new ways of working, transforming the way we're working and, not least, reducing CO₂ footprint and increasing competitiveness on the Norwegian Continental Shelf and internationally. We can move more of the task onshore, move people onshore closer to their homes."

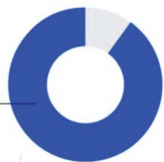
"Drones in general and underwater drones especially, are very important to us when it comes to achieving our goals. It is vital to work safely and to be able to reduce staff at our facilities and work more efficiently, as well as reducing our carbon footprint."

Major Z

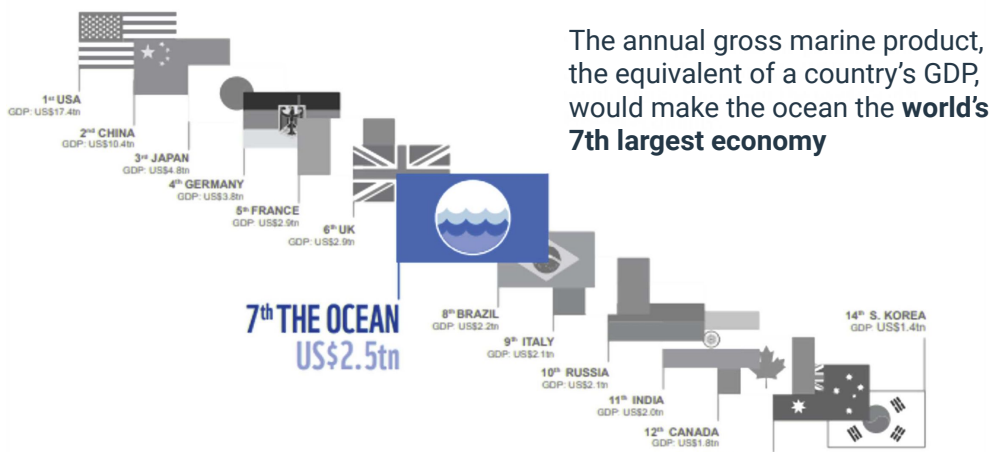
"[Z]'s vision for the future of subsea operations includes autonomous solutions for inspection and maintenance. An AUV/ROV that can perform its tasks without the need for an umbilical would be a great advancement and could gain a huge market on subsea IMR segment. The objective is to eliminate the need of a manned surface vessel (high cost, gas emission, ...), and any solution that complies with this goal is achieving our vision for the future on subsea operations. "



Good and services from coastal and marine environments amount to about **\$2.5 trillion** each year.



More than **90%** of international commerce is transported by sea.



Marine economy in 2018 grew faster than U.S. overall

American [marine] economy worth nearly **\$373 billion**

Aquaculture is growing at the rate of **6.6%** annually


The average **growth of marine biotechnologies** (for the pharmaceuticals, etc.) industries is about **10%** a year.

THE BLUE ECONOMY

The **Blue Economy** refers to sustainable use of ocean resources in order to fuel economic growth, improve livelihoods, support coastal communities, mitigate climate risks and safeguard the health of the ocean ecosystems.

Blue Robotics is the evolving and growing robotic products and services that support these markets in a sustainable way.

The World Wide Fund for Nature estimates that **two-thirds of the ocean's** value relies on healthy conditions and that this value is deteriorating rapidly because of climate change and the way industries are exploiting the ocean's products. This undermines the ocean's role as a climate regulator and carbon sink, which are key to supporting future economic growth and the well-being of billions of people.

A red and white Hydronaut research vessel is shown from a high-angle perspective, moving across a blue ocean. The vessel has "hydronaut" written in white on its red hull. It features a white cabin, various antennas, and a small American flag. The background shows a clear blue sky and a distant offshore platform.

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