







Protecting the blue planet

ech ventures have substantial potential for impact.

We believe that encouraging this type of innovation requires a dedicated and focused support infrastructure. Bluetech ventures have substantial potential for impact.

OUR GOAL:

The BlueSwell approach is to take a whole-ocean view in fighting climate change and advancing the blue economy. We seek to instill ocean conservation from the inception of ocean tech-based startups and build the capacity of early-stage founders to convert their ocean-focused concepts into profitable and sustainable businesses.

OUR FOCUS AREAS:



01 | Sustainable Food from the Ocean



02 I Low Carbon Ocean **Transportation**



03 | Renewable **Energy** in the Ocean



04 | Marine **Debris** and Pollution



05 | Coastal Resilience

Why Bluetech?

Let's talk about it.



1: THE PROBLEM

Anthropogenic stressors on the ocean have led to severe negative effects. Warming, acidification, plastic pollution, overfishing, and the movement of invasive species are just a few of the threats the ocean faces today.

2: THE FACTORS AT PLAY

As a result, various regulations have emerged, imposed on almost all ocean-related industries by many different authorities. Simultaneously, R&D has opened up a wealth of new opportunities ranging from aquaculture efficiency measures to eco-friendly alternatives to conventional plastics.

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3: OUR RESPONSE



Regulatory pressures and R&D advances together demand that we take advantage of this unique moment in time by implementing in the ocean the kind of technological development that we have begun to utilize on land. This space is what we are calling **bluetech**.





The venture ecosystem the ocean's been waiting for.

OUR WORK

We founded SeaAhead in 2018 to bring support infrastructure and access to funding to the blue economy. In just a few years, we've formed an open-innovation ecosystem that produces scalable commercial solutions to modern-day challenges. Through solutions that address climate change and support resilient ecosystems, our startups also provide triple-bottom-line impact by creating jobs, building workforce equality, and delivering returns for their investors.

OUR BLUETECH PLATFORM



Startup Programs

Build robust programs that launch startups and help them grow.

BlueSwell

GULF BLUE . NAVIGATOR



Investments Investments startups with scalable ocean solutions.



SeaAhead
Ventures



Bluetech Ecosystem

Catalyze an active network of founders, industry leaders, technical experts, and key stakeholders.

\$900k+

awarded to program participants by SeaAhead

\$19M+

raised by program participants

50+

companies that have gone through our programs

770+

hours mentoring companies in our programs

STATISTICS ARE AS OF FEBRUARY 2023



Protecting the blue planet



OUR WORK

The New England Aquarium is a non-profit conservation organization that has protected and cared for the ocean and marine animals for more than 50 years. In the Aquarium's Anderson Cabot Center for Ocean Life, scientists conduct applied marine research that informs ocean management, policy, and industry practices, and contributes to the innovation of new technologies.

SUPPORTING OCEAN HEALTH

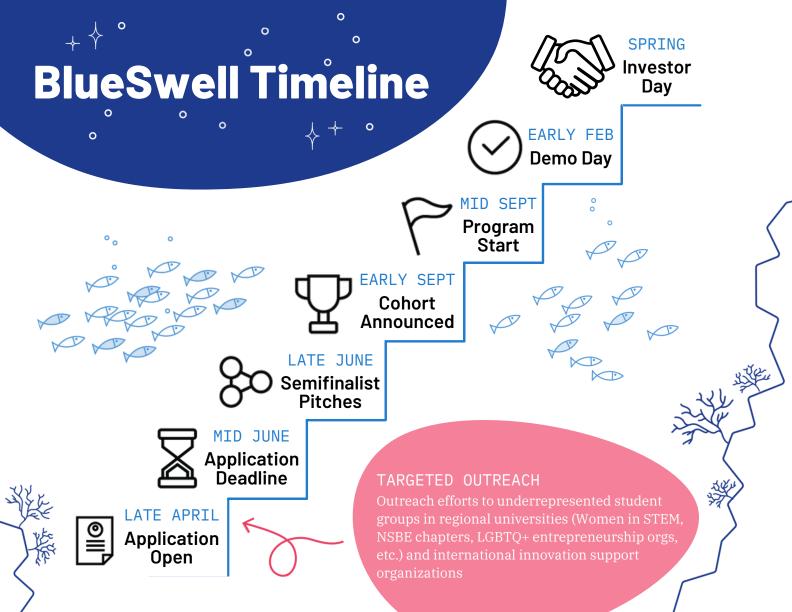
Our scientific expertise helps grow a blue economy that puts ocean health first. By partnering with SeaAhead to form BlueSwell, we support the creation and growth of startups with scalable solutions that enhance ocean health, sustainable ocean industry, and global resilience.

Over the course of the program, Aquarium scientists:

- Mentor selected founders with scientific and conservation expertise
- Offer technical advising on ocean conservation issues
- Help start-ups network and develop scalable ocean solutions
- Assess environmental impact of applications

The Northeast region contains both a thriving innovation landscape and robust set of ocean experts and assets, and through the BlueSwell program, we aim to combine these elements to foster sustainable, balanced, and equitable use of the ocean.

- John Mandelman, VP of the Anderson Cabot Center for Ocean Life, New England Aquarium



Program Key Activities



WORKSHOPS

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ENTREPRENEURS-IN-RESIDENCE

HANDS-ON MENTORSHIP

SITE VISITS

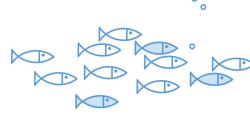
STAKEHOLDER CONNECTIONS

ALUMNI ENGAGEMENT

PEER INTERACTION & NETWORKING

DEMO DAY

- Business model development
- Product market fit and customer discovery
- Leadership strengths
- DEI programming
- Marketing, branding, & storytelling
- Legal and financial
- Impact metrics
- Fundraising





By the end of the program, our goal is that everyone within the cohort should be prepared to raise funding and have the resources they need to get started.

- Alissa Peterson, SeaAhead Co-Founder

Impact of Cohort Members

...using 1000 Ocean Startups' ocean health and climate change impact areas



A COALITION TO ACCELERATE OCEAN IMPACT INNOVATION

STARTUPS	SUSTAINABLY MANAGED OCEANS	A CLEAN OCEAN	THRIVING & RESTORED MARINE HABITATS	TOWARDS A 1.5C WORLD	RESILIENT COASTAL COMMUNITIES	POSITIVE SOCIO-ECONOMIC OUTCOMES
AKUA	✓	✓	✓	✓	✓	✓
Aloft Systems				✓		✓
Aquatic Labs		✓	✓		✓	✓
Berkeley Marine Robotics			✓	✓		✓
Can I Recycle This? (CIRT)		✓		✓		✓
Current Lab					✓	✓
Fathom				✓		✓
H20k Innovations		✓				✓

STARTUPS	SUSTAINABLY MANAGED OCEANS	A CLEAN OCEAN	THRIVING & RESTORED MARINE HABITATS	TOWARDS A 1.5C WORLD	RESILIENT COASTAL COMMUNITIES	POSITIVE SOCIO-ECONOMIC OUTCOMES
HydroNet	✓		✓	✓	✓	✓
Ithaca Clean Energy	✓			✓	✓	✓
Mabel Systems	✓				~	✓
Ocean Data Network					✓	✓
Organicin Scientific	✓	✓			✓	✓
Radmantis	✓		✓			✓
SeaDeep	✓				✓	✓
USEFULL		✓		✓		✓
VINCIVR				✓	✓	✓

Cohort I BlueSwell



AKUA is an innovative, sustainable food company creating plant-based foods from ocean-farmed kelp.

FIRST LOOK



Sustainable Food from the Ocean



Consumer Product



Cotuit, MA



<u>akua.co</u>

SEEKING

- Hiring a full-time Operations Director
- Hiring a part-time Food Service Director
- Raising a strategic financing round (SAFE note, 10% discount into Series A, \$15M cap)

MILESTONES

- Raised over \$3M at a \$10M pre-money valuation
- Over \$1.35M in product sales
- Sold 300,000 Kelp Burgers, 11,000 Krab Cakes, and 6,200 lbs of our Ground Meat
- Named one of America's Best Veggie Burgers by TastingTable
- Launched in over 500 grocery stores

PROBLEM

The oceans are absorbing so much CO2 from the atmosphere that our ocean temperatures are rising, the ice caps are melting, and we're witnessing biodiversity loss at an alarming rate.

SOLUTION

We create plant-based, meat-alt products from ocean-farmed kelp, which absorbs 5-20x more CO2 from the ocean than land-based plants do from the air. By utilizing regeneratively grown, ocean-farmed kelp in our food products, we are helping to remove vast amounts of CO2 from our oceans.

IMPACT

To date, we have purchased approximately 120,000 lbs of ocean-farmed kelp, responsible for removing over 6 tons of harmful CO2 from our sea.

FOUNDERS



COURTNEY BOYD MYERS CEO & PRESIDENT

- Entrepreneur, environmentalist, and writer
- Helped build the Summit Community, Four Sigmatic, and Unframed Ice Cream
- Previous journalist at Forbes Magazine and the Next Web
- One of Fast Company's Most Creative People In Business
- Advisor to GreenWave





ALOFT Aloft Systems Inc.

FIRST LOOK



Low Carbon Ocean Transportation



Hardware: Robotics, Sensing, & Observing



Boston, MA



aloft.systems

SEEKING

• Vessels to pilot test our prototype

MILESTONES

- Built ¼-Scale Prototype
- Developed novel shape-shifting sail to optimize performance



Reducing emissions with wind propulsion for every ship

PROBLEM

The maritime industry generates 2.7% of all greenhouse gas emissions globally. The industry has committed to a 50% reduction in emissions by 2050, but vessel operators have no good options to retrofit existing vessels to reduce emissions.

SOLUTION

Aloft is developing modular sails that can be retrofitted to nearly any ship, immediately reducing emissions and fuel costs. Aloft's sails autonomously capture wind and help propel the vessel without intervention by the crew.

IMPACT

In addition to emitting CO2, commercial vessels are a major contributor of coastal pollution. Aloft's retrofit solution will reduce emissions in fragile coastal ecosystems.

FOUNDERS



MILES KEENEY-RITCHIE CEO

M.S. Mechanical Engineering, University of Colorado Boulder Robot farmer.



SATCHEL DOUGLAS

B.S. Naval Architecture & Marine Engineering, Webb Institute Lifelong sailor.



Aquatic Labs

+ 4

Industrial innovation for ocean conservation

FIRST LOOK



Sustainable Food from the Ocean



Hardware: Robotics, Sensing, & Observing



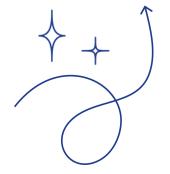
Cambridge, MA



oceanic-labs.org

FOR MORE INFO

Please reach out to the founder at <u>allan@aquatic-labs.com</u>



PROBLEM

As ocean-related industries grow, financial incentives are not always aligned with ecological responsibility, leading to negative impacts and wasted profits.

SOLUTION

We offer a range of cutting-edge instruments produced on an industrial scale to solve global business problems while ensuring good environmental stewardship.

IMPACT

We tackle key bottlenecks in marine instrumentation at an industrial scale without compromising the environment, allowing clients to overcome obstacles with responsibility. For example, our aquaculture nutrient sensor significantly improves productivity and reduces excess nutrient pollution.

FOUNDERS

BlueSwell



ALLAN ADAMS CEO

Previous Professor of Physics at MIT and PI at MIT's Future Ocean Lab; Adjunct Oceanographer at WHOI





Berkeley Marine Robotics

FIRST LOOK



Low Carbon Ocean Transportation



Hardware: Robotics, Sensing, & Observing



Oakland, CA



berkeleymarinerobotics.com

SEEKING

- Pilot projects in global commercial shipping
- Grants and funding for next prototype field testing
- R&D partnerships with laser/hardware manufacturers

MILESTONES

- Field testing in Port LA/Long Beach with diving co-alliances.
- Customer support letters from Chevron and Hempel
- Invited by the U.S. Navy to perform an advanced tech field demo for dual use-cases.



Reducing maritime emissions and protecting ocean biodiversity

PROBLEM

Ship hull biofouling increases fuel costs and GHG emissions by at least 25% while also spreading invasive species. The industry currently uses manual diving surveys, which are unreliable and lack prediction metrics.

SOLUTION

We are developing an autonomous robotic swarm system with underwater wireless laser communication to rapidly scan all ship hulls coming into a port. The gathered data will generate metrics and Ml models for ship/port managers to predict cost trends, detect damage/anomalies, and optimize routes/schedules.

IMPACT

With imminent IMO regulations to reduce maritime CO2, hull management driven by our data can reduce fuel and GHG emissions by 10% (i.e. 100 million tons/year globally).

FOUNDERS



SUSHIL TYAGI CEO

MBA Finance, Wharton UPenn; M.S. Ocean Engineering, UC Berkeley



ALEXANDRE IMMAS CTO

PhD Marine Robotics, UC Berkeley; M.S. Engineering, École Polytechnique (France)

We are developing an autonomous robotic swarm system with underwater wireless laser communication to rapidly scan all ship hulls coming into a port.





CIRT (Can I Recycle This?)

Actionable intelligence for materials recovery

FIRST LOOK



Marine Debris and Pollution



Tech: Analytics, Digitization, and AI



Athens, GA



cirt.tech

SEEKING

- A Chief Technology Officer
- Seed funding
- Partnerships with retailers and multi-unit corporations

MILESTONES

 Since graduating BlueSwell, we have brought on our first customers and have been accepted into Google for Startups 2022 Cohort.

PROBLEM

There are over 9,000 recycling areas in the U.S. These areas and their rules and regulations change frequently for a multitude of reasons. This, coupled with archaic recycling communication, leads to confusion, contamination, landfilling of recyclable material, and litter leakage into the environment.

SOLUTION

We developed the world's first geospatial database of "wastesheds," materials, and products to provide businesses and customers with accurate, on-demand, location-specific product recovery information. When embedded on a product's webpage, our tech can intake a visitor's location and output how and where to recycle that product and/or its packaging.

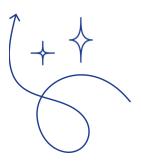
IMPACT

Our database will eventually grow large enough to service large multi-unit organizations (i.e. hotel groups, airlines, co-working space). This will reduce their waste and carbon footprint, lower their costs to landfill material, and make it easier to buy sustainable products.

FOUNDERS



KATHERINE SHAYNE



An in-depth, hands on experience that helped us prepare our company to make profit and planet work together.



- Katherine Shayne, founder of CIRT



FIRST LOOK



Low Carbon Ocean Transportation



Tech: Analytics, Digitization, and AI



Providence, RI



current-lab.com

SEEKING

- B2B customers in unmanned vehicles
- Naval contacts, particularly in Task Force 59

MILESTONES

- 400+ registered users on the Current Map platform.
- Exclusive oceanographer for the US Olympic Sailing Team.



PROBLEM

Ocean currents cause ships to burn extra fuel and unmanned vehicles to drain their batteries. Public forecast models of ocean conditions lack sufficient detail and accuracy to enable efficient maritime navigation.

SOLUTION

Current Lab's hyperlocal ocean forecasting system combines over a dozen smaller regional ocean models to achieve up to 50x finer resolution than standard public ocean models. This data can be viewed instantly in our Current Map web app or integrated into navigation systems via our API.

IMPACT

Current Lab enables next-generation navigational efficiency in order to decarbonize maritime transportation. Our data can support a range of industries including shipping, surveying, offshore wind, aquaculture, and defense.

FOUNDERS



KEVIN ROSA, PHD

PhD Physical Oceanography & B.A. Physics, University of Rhode Island

"The SeaAhead team has developed an absolutely invaluable program and network for bluetech founders."

- Kevin Rosa, CEO







Current Lab enables next-generation navigational efficiency in order to decarbonize maritime transportation.



Fathom Carbon



Reducing risk and uncertainty to enable better monitoring, reporting, the ocean.

Verification of carbon removal in

FIRST LOOK



Coastal Resilience



Tech: Analytics, Digitization, and AI



Boston, MA



fathomcarbon.com

SEEKING

- Potential customers (sustainability managers and financial traders)
- Potential partners (blue carbon project developers)

MILESTONES

• Partnerships with blue carbon developers

PROBLEM

Companies and investors buy high-quality carbon credits to offset their carbon emissions and meet their net zero goals. However, sourcing and evaluating high-quality credits, especially for ocean-based projects, is expensive and time consuming.

SOLUTION

Fathom Carbon reduces purchasing risk for companies and investors by evaluating uncertainty in ocean carbon removal projects. We combine remote sensing with deep scientific expertise and machine learning to conduct due diligence faster and more effectively.

IMPACT

We help accelerate the growth of blue carbon projects, which themselves enable carbon removal and storage, coastal resilience, healthy reefs and fisheries, and increased livelihoods for local communities.

FOUNDERS





SARA REMSEN CEO

SaaS product executive with a background in enterprise tools and IoT. Co-founder of Waypoint acquired by PTC in 2018.





ADRIENNE HOARFROST Chief Science Officer

Oceanographer and machine learning scientist, professor at UGA. Expert in modeling carbon cycling in marine environments.



H20k Innovations



Ior-enabled data analytics platform

helping industrials optimize
diagnostics

systems through predictive

FIRST LOOK



Coastal Resilience and Climate Change



Tech: Analytics, Digitization, and AI



Boston, MA



h2okinnovations.com

SEEK

• \$5.2 million dollar SEED round over summer 2022

FOR MORE INFO

Please reach out to the founders at annie@h2okinnovations.com and david@h2okinnovations.com

PROBLEM

Industrials are highly dependent on water, using 18.2 billion gallons of water per day in the United States. Current methods do not offer enough visibility into their liquid systems, causing high resource and operating costs, as well as inefficiency.

SOLUTION

H20k Innovations is an IoT-enabled management platform helping industrials improve liquid systems through predictive diagnostics. We provide real-time granular visibility of water and liquid composition/quality in your facility and data-driven intelligence to optimize facility performance and reduce operating costs.

IMPACT

We help our clients significantly reduce biosolids and chemical usage in their wastewater treatment, minimize operating and resource costs, and avoid surcharge fees by decreasing the number noncompliance events.

FOUNDERS



ANNIE LU

CEOEconomics & Computer
Science, Harvard University



CTO
BS Chemistry & Computer
Science, Brown University

HydroNet



Building high-speed wifi communication networks

for scalable underwater networks

FIRST LOOK



Multisectoral



Tech: Analytics, Digitization, and AI



Burlington, MA



hydronet.tech

MILESTONES

 Tested HydroNet at Naval Undersea Warfare Center (NUWC) Division Newport's Narragansett Bay Test Facility

FOR MORE INFO

Please reach out to the founders at tommaso@bionetsonar.com

PROBLEM

We have high-tech capabilities for ground, aerial, and cyber assets, but there's a lack of real-time connectivity and intelligence for underwater assets.

SOLUTION

We bring the internet underwater with AI-driven softwaredefined technologies. Our proprietary modular underwater networking system allows for safer and sustainable fishing/aquaculture, better monitoring of offshore energy infrastructure, and more.

IMPACT

Our services reduce maintenance costs, insurance costs, and inspection costs of underwater assets by 20-50%. We also reduce the risk and environmental impact of clients, preventing accidents and supporting sustainability.

FOUNDERS



TOMMASO MELODIA
PRESIDENT

Director of Wireless IoT Institute and Professor of Electrical & Computer Engineering, Northeastern



EMRECAN DEMIRORS, PHD DIRECTOR OF R&D

PhD Electrical & Computer Engineering and Research Assistant Professor, Northeastern





ITHACA Ithaca Clean Energy



FIRST LOOK

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Renewable Energy in the Ocean



Tech: Analytics, Digitization, and AI



Fairhaven, MA



<u>IthacaCleanEnergy.com</u>

SEEKING

- New team members as we meet our business and product development milestones
- Partnerships with other marine stakeholders

MILESTONES

 We have signed multiple contracts with offshore wind projects and are about to launch our first digital product, WATERFRONT



We facilitate seamless communication
between different marine stakeholders
and offer marine data analytics.

PROBLEM

Offshore wind (OSW) farms face permitting, development, and operations problems, oftentimes due to the obstacles they pose to other marine stakeholders.

SOLUTION

Our WATERFRONT app is a multi-sided communication platform that enables different marine stakeholders to share information securely, privately, and seamlessly. Marine impact zones due to OSW development and operations can be predicted and mitigated with our machine learning models.

IMPACT

Seamless communication makes ocean navigation safer for all. Our digital network helps to create opportunities between OSW and coastal communities while minimizing impact on fishing. This enables the deployment and growth of OSW in harmony with its marine co-users.

FOUNDERS



KHALID KAMHAWI, PHD

B.S. Mechanical Engineering from Carnegie Mellon, PhD in Mathematics from Imperial College



MARK ABDALLA, CFA CFO

B.S. from Carnegie Mellon, MBA from Cornell University



Mabel Systems

° stellis

Digital traceability and inventory

management for seafood producers

FIRST LOOK



Sustainable Food from the Ocean



Tech: Analytics, Digitization, and AI



Sydney, NS Canada



mabelsystems.com

SEEKING

- Mentorship from experienced seafood executives, especially in Sales and Marketing
- Retail partners who want to integrate global seafood traceability standards into their procurement process

MILESTONES

- Launched our Traceability Product
- Certified by the Global Dialogue on Seafood Traceability (GDST)
 Data Standard

PROBLEM

Seafood Traceability and Inventory Management are typically done with manual paper-based systems, but stringent regulations make this method too slow and labor-intensive. Also, a one-size-fits-all solution does not work with all seafood companies.

SOLUTION

Mabel Systems has developed an easy-to-use, easy-to-customize digital traceability and inventory management system. Our solution is one of the first certified by the Global Dialogue on Seafood Traceability (GDST) Data Standard.

IMPACT

Illegal, Unreported and Unregulated (IUU) fishing is a prevalent issue and a significant contributor to declining fish stocks. Mabel's traceability system helps seafood producers, retailers, and consumers ensure their product is sustainably caught or produced.

FOUNDERS

BlueSwell



GAVIN ANDREWS

"BlueSwell was a turning point which focused us on the right solution for our customers. I particularly liked working with amazing mentors and the other cohort members."

- Gavin Andrews, CEO

OCEAN **D**ATA NETWORK

Ocean Data Network



Unlocking the blue data driven revolution. through integrated collaboration.

FIRST LOOK





Digitization, and AI



Portland, ME



oceandata.net

- Strategic investors
- Expanding our team (CFO, Cyber security, front end, and more)

MILESTONES

- Selected as a Top Innovator in the World Economic Forum's Ocean Data Challenge
- · Expanding data collection to North Africa, Mexico, the Arctic, and more
- Profitable

PROBLEM

The blue economy, scientific advancement, maritime safety, and undersea defense are all strangled by a lack of data in specific ocean regions: mainly subsurface shelf, convergence, and frontal mixing zones.

SOLUTION

We integrate ocean observation tech with fishing vessels, collecting data where it is scarcest yet most needed. Sensors go along for the ride during normal fishing operations, profiling through the water column. Combined with our specialized data management, we are driving the next revolution in ocean observation.

IMPACT

Fishing vessels are now the main subsurface data collection platform in many regions around the world. At scale, our data could improve weather forecasts, climate policy, and the search and rescue forecast used by the U.S. Coast Guard.

FOUNDERS



COOPER VAN VRANKEN CEO

Commercial fisherman. mechanical engineer, and fisheries oceanographer



CARLES CASTRO MUNIAIN CTO

Data scientist, electrical engineer, and seine net guru

ORGANICIN Organicin Scientific, Inc.

→ ♦

FIRST LOOK



Sustainable Food from the Ocean



Tech: Analytics, Digitization, and AI



Amherst, MA



organicinscientific.com

SEEKING

- We are raising a seed round in January 2023. Happy to have an intro call with any investors earlier than the formal start date.
- Leads to animal health and nutrition companies for research collaborations.

MILESTONES

- Raised fundraising round.
- Successful preliminary in vivo challenge trial
- Letters of support for USDA and NSF grants from major feed/nutrition/aquaculture companies

Using AI and bacteria to develop

in bacteriocins for niche applications health.

aquaculture, agriculture, and human health.

PROBLEM

Society's over-reliance on antibiotics has led to weaknesses in our healthcare & food systems. As the antibiotic pipeline dries up and farming intensifies, crucial food sources are becoming increasingly vulnerable to disease. Nowhere is this more clear than in shrimp aquaculture.

SOLUTION

We're developing a bacteriocin-based feed additive that adds \$4.6B in value back to shrimp aquaculture. Our Alfirst drug discovery platform identifies novel bacteriocins to prevent & treat disease for niche applications in animal health. Through the power of computational biology, we aim to develop the world's first bacteriocin pipeline.

IMPACT

We are improving animal health in an effort to enable the aquaculture industry to continue to intensify and grow sustainably, reducing stress on our oceans.

FOUNDERS



GRIFFIN O'DRISCOLL CEO

B.S. Biochemistry & Molecular Biology, UMass Amherst; M.S. Management Studies, Boston University



MAT MITCHELL

B.S. Biochemistry & Molecular Biology, UMass Amherst; M.S. Biophysics and Physiology, Georgetown University



DR. MARGARET RILEY

Professor of Biology, UMass Amherst

Cohort III



Radmantis

Smart aquaculture to feed a hungry planet

FIRST LOOK



Sustainable Food from the Ocean



Tech: Analytics, Digitization, and AI



Toledo, OH & Boston, MA



radmantis.com

SEEKING

- Industry connections
- Access to interesting use cases

MILESTONES

- 3 current SBIR grants (NOAA Phase I and II, NSF Phase I)
- Tested our in-house steelhead trout RAS commercial scale systems at the Freshwater Institute
- Pilots with industry partners

PROBLEM

Sustainable management of natural aquatic resources is key to bringing food security to an ever-expanding human population. However, aquaculture remains painfully reliant on outdated and damaging manual handling practices.

SOLUTION

We provide autonomous management devices that detect, classify, and separate fish by their physical and behavioral characteristics. Key use cases are precision aquaculture workflow management, invasive species capture, bycatch reduction, and preventing fish entrainment at utility intakes.

IMPACT

Our automated and human-assistive tools enhance profits by improving operational efficiency, increasing production, improving better health and well-being of the resident population, and reducing occupational hazards.

FOUNDERS



MOIRA VAN STAADEN, PHD, MOD Managing Director

BlueSwell

PhD Zoology, Texas Tech University; Professor of Biology, Bowling Green State University



ROBERT HUBER, PHD, MBA
Senior Researcher & Tech Lead
PhD Neuroscience, Texas Tech University;
Postdoctoral Fellow Neurochemistry,
Harvard University

Cohort I BlueSwell



SeaDeep





to SeaDeep's AI empowers subsea ROV autonomously visually assess environments and structures in near-real-time.

FIRST LOOK



Multisectoral



Tech: Analytics, Digitization, and AI



Boston, MA



seadeep.io

SEEKING

• Currently raising a \$1 million SEED round

MILESTONES

- Grant funded by MassTech
- Received MassCEC grants
- Part of Equinor & Techstars Energy portfolio
- Piloted with a Fortune 500 company

PROBLEM

From the Gulf of Mexico to the North Sea, underwater assets are at risk of excessive damage, foreign interference, and negative environmental impact. Performing frequent subsea visual inspections mitigate this risk but are costly, slow, inaccurate, & not easily automated.

SOLUTION

Breaching the limitations of current technologies, our Al affords real-time, automated, & high fidelity image enhancement and data classification. We deploy our Al on off-the-shelf cameras to empower legacy vehicles.

IMPACT

By detecting biofouling and invasive species in kelp farms, we prevent crop loss & increase yield by 10%. For bridges, we can reduce cost and carbon utilized for maintenance and repair by 20%. We also enable a 30% time reduction in subsea energy infrastructure inspections, increasing profit by 50% and decreasing carbon emitted through vessels proportionally by 30%.

FOUNDERS



ERIC OSHEROW
CEO



SHISHIR RAO, PH.D CTO

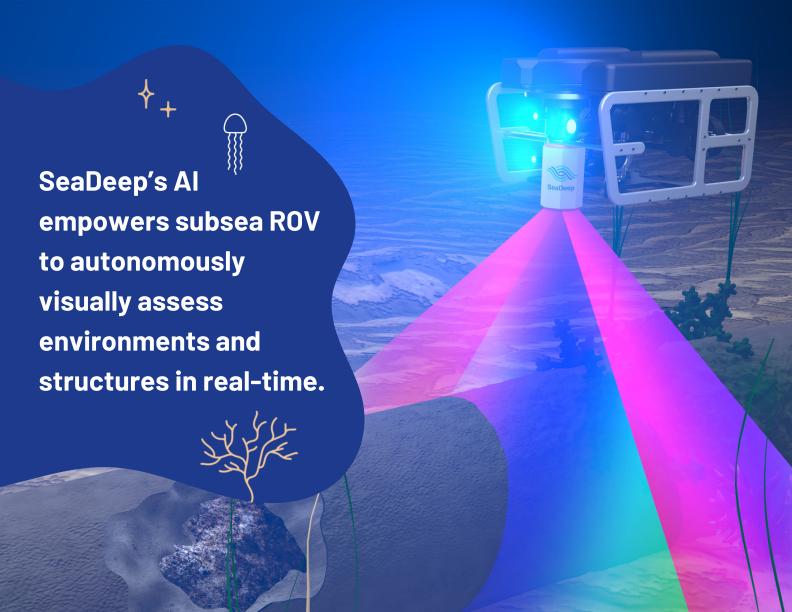


ALOK CHAND



DR. KAREN PANETTA





USEFULL USEFULL



FIRST LOOK



Marine Debris and Pollution



Tech: Analytics,
Digitization, and AI



Cambridge, MA



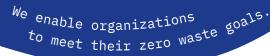
usefull.us

SEEKING

- Raising a Seed round of investment to take our 5 live beta projects to market
- Introductions to university campuses ready to fulfill their zero waste and plastic-free goals!

MILESTONES

- Raised \$1.7M pre-seed in 2022
- Launched 2 college campus & 3 community implementations
- Designed, manufactured, and purchased inventory
- Grew our team, refined our technology & offering, honed the sales process, <1% loss rate



PROBLEM

Single use packaging is terrible for the environment and consumer health. Many organizations understand this and seek to achieve zero waste but struggle to find feasible, easy-to-manage, enduring solutions.

SOLUTION

USEFULL eliminates the need for single use take out containers by providing a technology backed, stainless steel container system. It's a library system for returnable packaging.

IMPACT

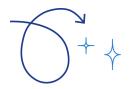
In less than 7 months, USEFULL has eliminated 90,023 single use containers from the landfill, saving 7,969 lbs of trash, 223,131 gallons of water and mitigated 25,038 lbs of emissions.

FOUNDERS



ALISON ROGERS COVE

- An avid sailor, biker, and outdoors adventurer
- Founded the company to solve a personal dilemma - she loved eating takeout food, but got frustrated with the mountain of waste it left behind
- Previous management consultant and ORISE Fellow at the US EPA



The USEFULL team may as well be BlueSwell groupies. We love the SeaAhead and New **England Aquarium** teams and grew so much as a result of the program.





VINCI VR



Unlocking the potential

high of virtual reality for wind

training in offshore





Coastal Resilience



Tech: Analytics, Digitization, and AI



Boston, MA



vinci-vr.com

SEEKING

- Partners
- Software Testers

MILESTONES

- 2019 VR partnership with Siemens Gamesa Offshore
- July 2022: certified 12 union workers with Siemens Gamesa Offshore
- VINCI VR's software is now a required training tool for USAF maintenance training

PROBLEM

Installing and operating blue energy tech is labor intensive and requires special training. Current simulator solutions are not only expensive but also inflexible to student needs and unable to provide performance feedback, leading trainees to forget 90% of lessons.

SOLUTION

VINCI VR provides CODEX, an end-to-end VR training platform. Our software allows clients to easily customize and create their own highly realistic 3D simulations and gain insights into training trends with robust analytics.

IMPACT

Our simulations have shown to improve pass rates by 30%, improve material retention for 83% of students, and increase hands-on training time by as much as 495 hours – all while reducing costs by as much as 90%.

FOUNDERS

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Stay tuned for more...

Think your startup would be a good fit for BlueSwell? Get a jumpstart in the application process:

COHORT IV INTEREST FORM





One planet, one ocean, endless possibility. We've done a lot in a few years, but SeaAhead's just getting started – stay up to date here:

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Interested in mentoring? We'd love to get you involved. Please let us know a little more about yourself by filling out this form:



APPLY TO BE A MENTOR

For more information, reach out to us at blueswell@sea-ahead.com

Our Sponsors

The BlueSwell program is made possible by sponsoring foundations, companies and individuals that prioritize the ocean as a source of solutions.





WATER POWER TECHNOLOGIES OFFICE







This program is also supported by the US Economic Development Agency, through their Build-to-Scale Initiative, as well as the generous support of private family foundations and individuals.

Our Program Partners











Join us in making our vision a reality. Contact us to learn more about partnering at <u>blueswell@sea-ahead.com</u>.