

Building the carbon & biodiversity bond market revolution

Fighting Climate Change & Marine Biodiversity Loss at Scale



















Race Before Planetary Collapse



All Earth's Ecosystems are in a state of collapse



PRESS RELEASE 21 MAY, 2024

More than half of all mangrove ecosystems at risk of collapse by 2050, first global assessment finds

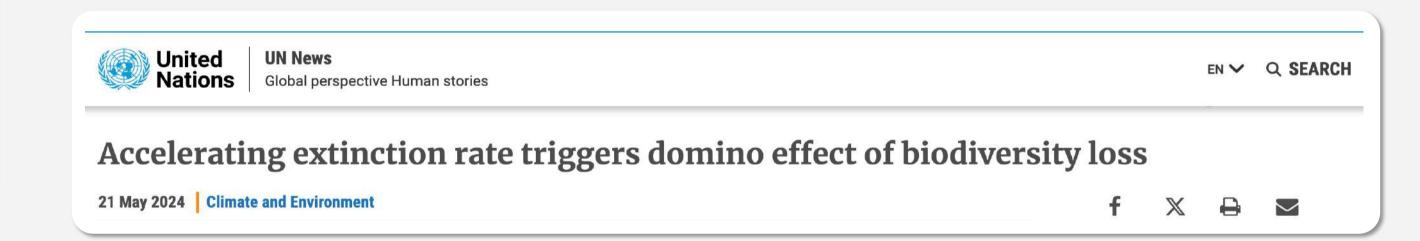
The New York Times

Heat Raises Fears of 'Demise' for Great Barrier Reef Within a Generation

BIODIVERSITY, OCEANS

Seagrass Meadows Are Declining Globally at Alarming Rate

CRISIS - MASS EXTINCTION BY PAMELA FERRIS-OLSON AMERICAS APR 18TH 2023 6 MINS



Climate report warns of escalating crisis, urges immediate action as UN summit nears

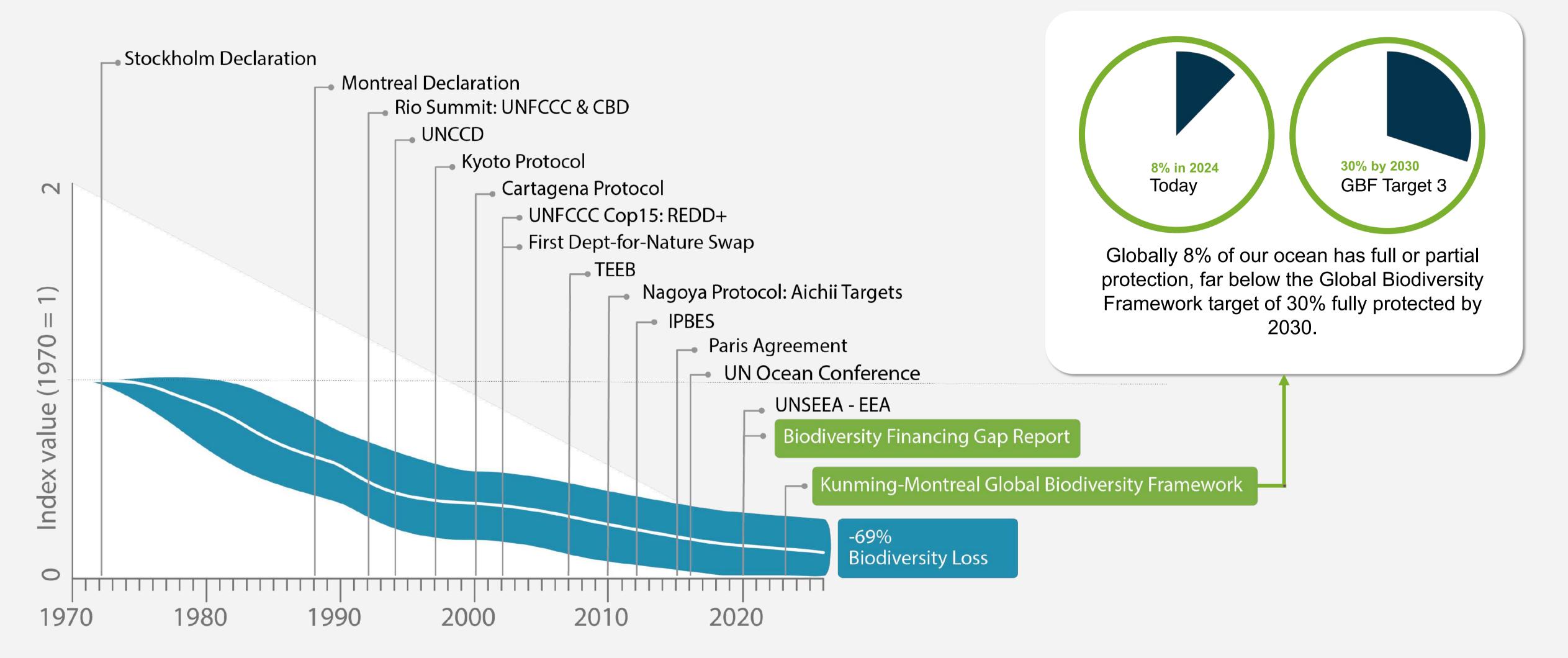
Editors' notes

by Oregon State University

() OCTOBER 8, 2024

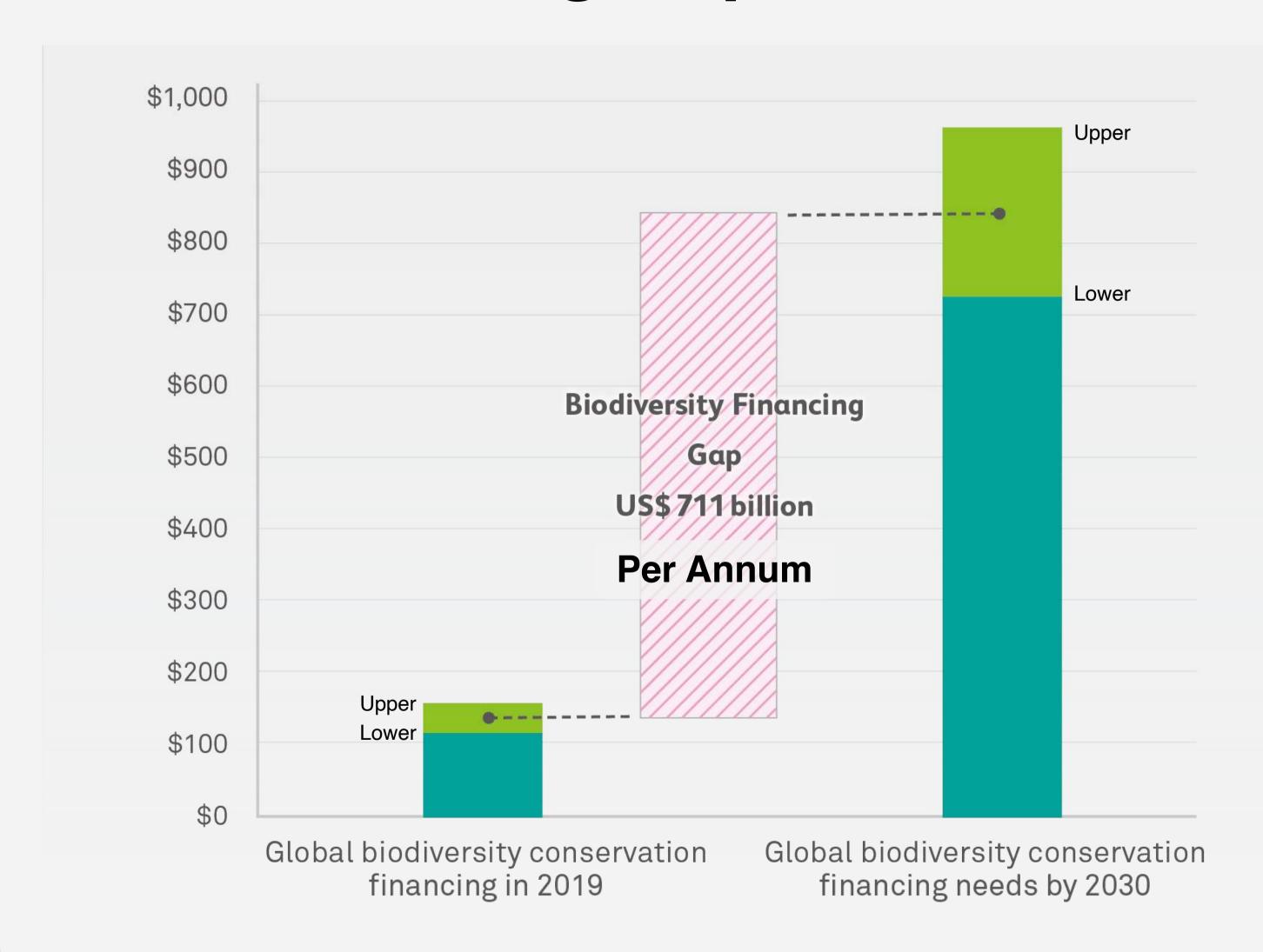


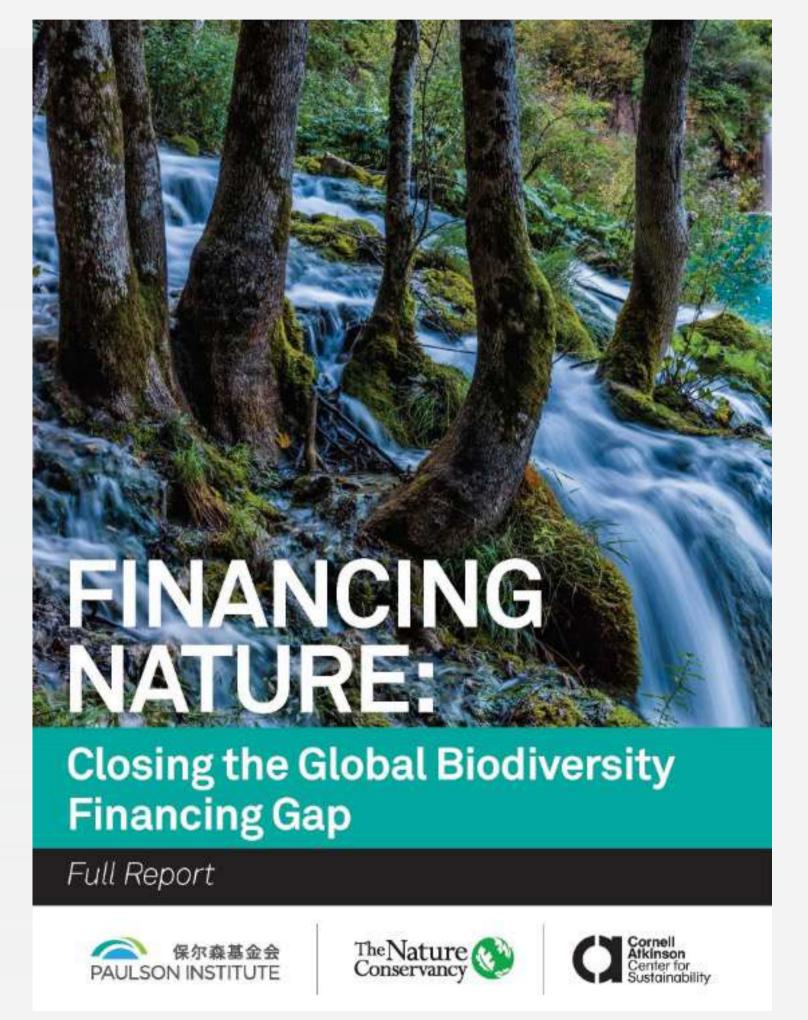
50 years of being at the "tipping point"





Global Financing Gap to Meet 2030 Targets







We're at an inflection point of systematically valuing nature.



Carbon Market is Mature

+4,000 organizations had already adopted Taskforce for Climate Financial

Disclosures recommendations, representing \$26 trillion in market capitalization.



Biodiversity Market is Emerging

+320 organizations had already adopted Taskforce for Nature Financial

Disclosures recommendations, representing \$4 trillion in market capitalization.



Emergent's Solution



Pioneering New Conservation Finance for a Decade

Blue Carbon Impact Bond

Advancing **30x30 goals** to protect 30% of world's oceans by 2030.

Exceeding 4 Global Biodiversity
Framework (GBF) targets (1,3,14,19).

Accelerating Climate Change Commitments.

Meeting all 17 **Sustainable Development Goals** (SDGs)

Ecosystem Services

National Accounting and Monetization of **Stranded Blue Carbon Assets.**

Marine Spatial Planning, Enforcement Resources & Education.

Investment funds for **Cash Generating Impact Projects**;

Luxury Tourism, Renewables,

Aquaculture.

Carbon Investment Portfolio

World-Class Voluntary Carbon Projects





Carbon Financial Risk Software



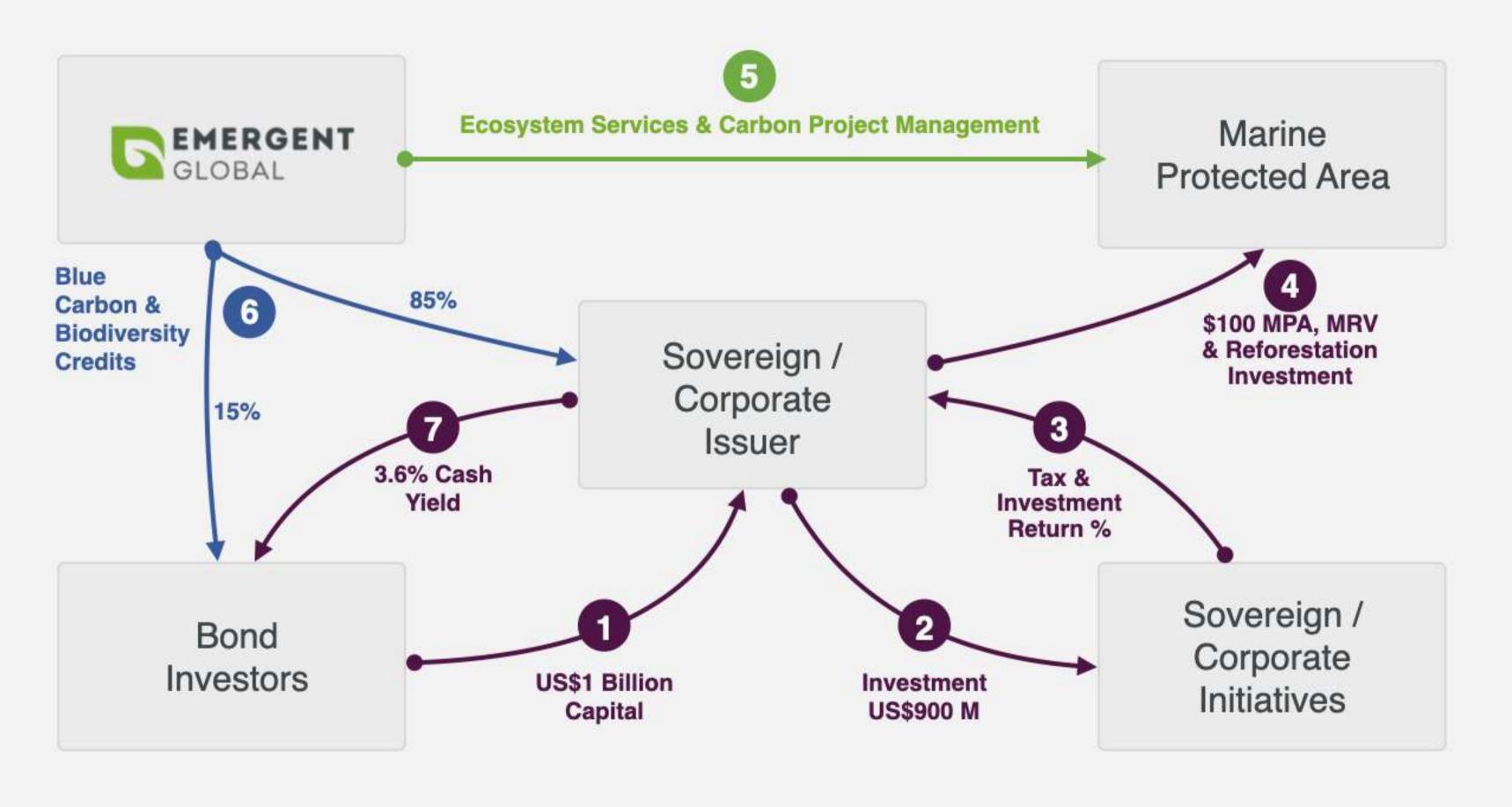
Marine Biodiversity Asset Platform







Bond Economics & Flow



Step-by-Step Mechanics

- The bond investor purchases a new sustainability-linked bond for US\$1 Billion.
- Bond releases capital that is invested into sustainable businesses including ecotourism, renewable energy and aquaculture.
- Cash return and additional tax revenues are paid back to the sovereign/corporate issuer.
- Budget is created for Marine Protected Area (MPA) management and establishing world-leading monitoring system (MRV).
- Protection of blue carbon and marine biodiversity assets generates credits using our ecosystem.
- Credits generated are shared between bond investors and issuer. Issuer can use internally for net-zero targets or NDCs, while investors receive higher yield compared to traditional bonds.
- Sovereign or corporate issuer pays lower bond interest than market rate, while meeting ESG, Climate Change and GBF commitments, and unlocking new pool of ESG investors.



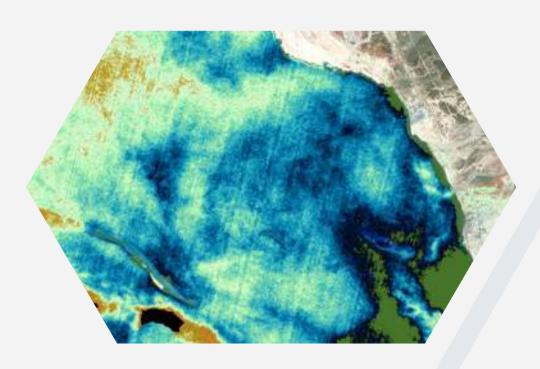
Setting a New Bond Industry Benchmark

Blue bonds originated in 2018 when the Republic of Seychelles issued the world's first blue bond, raising \$15 million to support sustainable marine and fisheries projects. Since then, blue bonds have gained traction with over US\$3 Billion structured for ocean conservation and sustainable use of marine resources. However, the current instrument benchmark has several flaws that limit its ability to deliver Climate Change and Global Biodiversity Framework targets.

Typical Debt-for-Nature Swap Deals	Emergent Global Blue Bond	
Natural capital assets are significantly undervalued.	Investment Intelligence Ratings provides validated assessment of natural capital assets with fair pricing mechanisms based on cost of conservation.	
Lack of performance-based incentive results in very low conservation and social impact.	Bonds stakeholders are partially paid in cash and in carbon & biodiversity credits which incentivize long-term conservation.	
Effective monitoring and evaluation mechanisms are often lacking, leading to potential misuse or misallocation of funds.	Digital MRV platform offers investors interactive features to see remote sensing data layers and proprietary views to see biodiversity impact in space and time.	
Indigenous peoples and local communities (IPLC) often not adequately consulted, leading to conflicts over land use and access to resources.	Participatory approach with IPLC groups throughout project development including training to conduct monitoring activities and establishing a benchmark benefit minimum.	
Lack of standardization reduces financial impact on the \$7.8 trillion in external debt held by developing countries (World Bank, 2019).	Designed to deliver at speed and scale, relieve debt burden, reverse biodiversity loss and sequester carbon through a centralized platform.	



How Emergent Makes Money From Bond & Drives Impact?



Products

*see appendix for more details



Investment Ratings

Our analytical tools measure corporate carbon & biodiversity liabilities and a ratings suite for marine biodiversity asset supply adjusted for risk at sovereign scale.





Digital MRV Platform

Next generation remote sensing technology, genetics and bioacoustics robustly create baseline accounting & monitor conservation performance.



Carbon & Biodiversity Credits

Conservation & regeneration generate carbon & biodiversity credits, sold to domestic & international buyers.





Financial Instruments

Identify opportunities, structure and negotiate blue carbon impact bonds using extensive network and capital market experience.







Impact & Benefit Sharing

- Expanding Marine Protected Areas, protecting and enhancing marine biodiversity.
- An Equitable Benefits Sharing Mechanism.
- Investment Priority for **Community Owned** Sustainable Businesses.
- Investments in State Owned Enterprises with mandates for recurring revenues and measurable social impact returns.







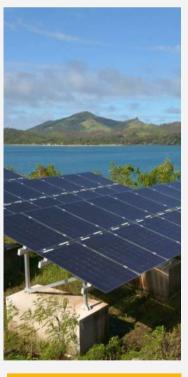
























Readiness to Execute



Highly Experienced Execution Team

Our team has decades of in-depth experience in Natural Capital Markets consistently delivering impactful conservation and financial results.



Todd Lemons
Founder

- 30+ years in for-profit conservation space & voluntary carbon markets.
- Pioneered REDD+ methodology for peatland carbon accounting.
- Founded InfiniteEARTH, Tribal Hands, EnTech Industries, Composite Technologies, FarmWorks, EcoSmart Labs, MarVivo Corporation and Natural Capital Reserve.



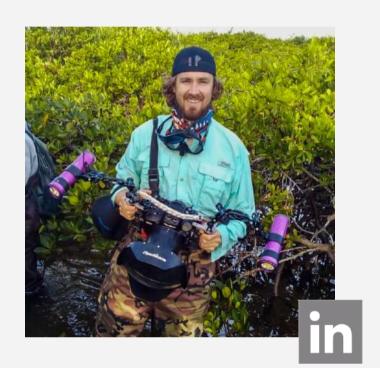
Jeff Reece Founder

- 20+ years experience in management consulting, investment banking and private equity.
- Impact investor with a unique ability to drive high impact and financial returns.
- Co-founded InfiniteEARTH and MarVivo Corporation.



Justin Cochrane
Chief Executive Officer

- 20+ years of financing and investment experience.
- Raised, negotiated, structured and executed over \$2 billion of royalty and stream financing contracts around the globe across multiple commodity businesses.
- Founder of several commodity investment businesses, including Carbon Streaming Corporation, a leading investor in carbon projects around the globe.



Tom Sparke
Chief Operating Officer

- 10+ years experience in marine science and operations.
- COO of MarVivo & Natural Capital Reserve, with extensive project management experience.
- Project experience in the Caribbean, Eastern Pacific and Indo-Pacific in both the private and non-profit sector.



Marco Bustmante
Chief Innovation Officer

- 10+ years experience in natural capital markets.
- Verification and auditing specialist in top-performing global REDD+ project with highest credentials;
 Triple Gold CCB and 17 SDGs SDVista.
- Implemented a 100,000-hectare forest carbon project with indigenous communities in the Peruvian Amazon.



Market Leaders

Advisory Board



Max Bello

Senior Policy Advisor, Sylvia Earle's Mission Blue

- 20 + years of experience in international ocean policy expert including The Pew Charitable Trusts, Oceana, World Wildlife Fund, Island Conservation and the Blue Whale Center.
- Worked directly with governments in Latin America and around the world to establish marine protected areas securing protections for over 2 million km² of countries' territorial waters.



Gerald Page

Senior Emerging Market Advisor, TCT Capital

- 20+ years of experience in investment banking with a global focus on renewable sustainability in emerging markets.
- Founder of Equinox Energy and Borderline Capital Asia, Gerald has held executive roles in global companies like Via Motors and offshore banks, and currently serves as a Strategic Advisor to JUCCCE.



Sam Purkis

Chief Scientist, University of Miami

- 20+ years of experience as a Chief Scientist and Professor. Chair of the Department of Marine Geosciences at the University of Miami with a rich academic background, including a Ph.D with focus on coral reefs and geospatial tools
- Played a key role in establishing Earth's largest marine protected area in the Chagos Archipelago. His research also involves mapping coral reef resilience, particularly through his work as Chief Scientist with the Living Oceans Foundation.



Current Strategic Alliances



International Policy

Sylvia Earle's Mission Blue leads global marine protected area expansion, collaborating with over 20 national governments on marine spatial planning.







MPA Network

IUCN's Great Blue Wall Initiative is creating a West Indian Ocean network of community-led marine management areas, with a target of raising US\$2 Billion through debt-swaps.



Eyes-In-The-Sky

Next-Gen Remote Sensing
Technology using high-fidelity
sensors to deliver "low-cost"
monitoring of conservation
impact through space
& time.







Advanced Genetic

KAUST are world-leaders in marine genetic technology that disentangles the relationship between biodiversity & function through integrated & standardized approaches.

Our Companies

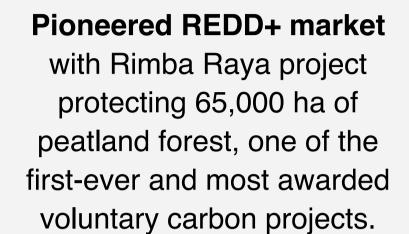








Timeline

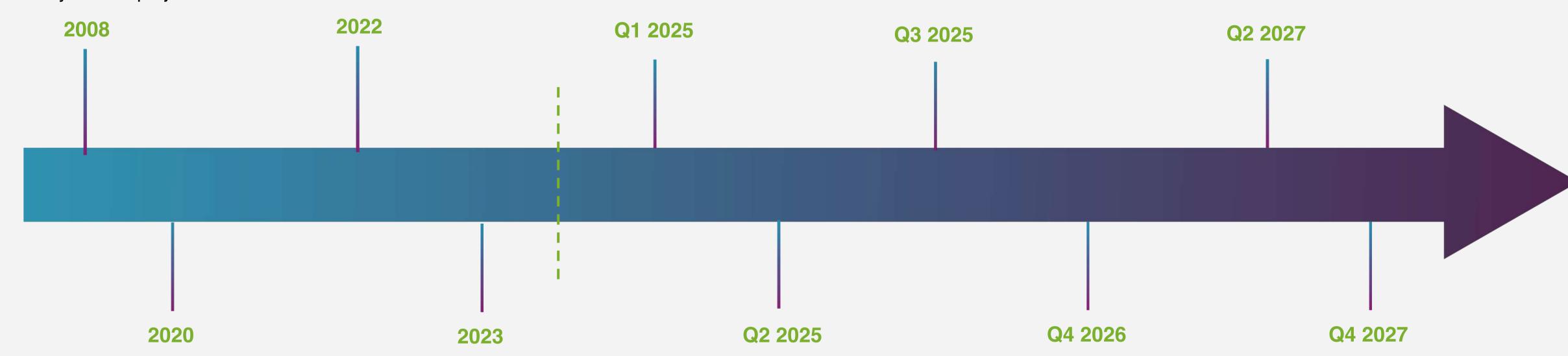


Second-generation of carbon risk & liabilities tool launched by EcoSmart Labs.

ODISEA expedition with
IUCN Great Blue Wall
Initiative begins in Western
Indian Ocean providing
scientific platform, marketing
media & deal flow.

Registry platform technology stack development completed and launched.

Bond proceeds are invested into blue carbon projects, luxury tourism, marine park management, renewable energy, etc.



In collaboration with Mexican government began development of large blue carbon project protecting 22,000 ha of mangrove forests.

Marine biodiversity investment intelligence tool is developed by MarVivo and is catalyst to founding Natural Capital Reserve.

Secure binding agreements
with three sovereigns and/or
corporates for bond
instruments, totaling at least
\$1Billion

Bonds are placed on market, in parallel to securing additional sovereign and corporate bond partners.

First Carbon and
Biodiversity Credits are
issued on the Registry,
enabling above market
rate financial returns for
bond investors.



Current Pipeline

Emergent Global are moving forward and executing a detailed technology development and stranded asset monetization plan. Emergent has successfully conducted market testing with sovereigns on the supply side of sovereign carbon & biodiversity credits. Emergent Global is the middle of executing with MoU's with a set of countries and corporations to become part of the launch of Emergent Global's blue bond instruments.

Sovereign / Public- Private (disclosed under MNDA)	Credit Rating Blue Bond Face Va (US\$M)		Bond Investor Financial Return			Impact	
		Blue Bond Face Value (US\$M)	Cash Coupon	Blue Carbon Coupon	Blue Biodiversity Impact Yield	Net MPA Conservation Budget* (US\$M)	EEZ Protected (km²)
Sovereign	BB+	\$250	4.65%	1.86%	63.20%	\$155.1M	954,818
Sovereign	B-	\$200	9.45%	4.72%	121.33%	\$45.5M	169,641
Sovereign	BBB	\$250	4.14%	2.07%	13.36%	\$27.7M	99,235
Sovereign	A-	\$100	3.13%	1.57%	287.50%	\$31.4M	199,000
Sovereign	BBB+	\$1,000	3.13%	1.25%	49.15%	\$148.4M	470,856
Sovereign	BBB+	\$500	3.13%	1.77%	41.31%	\$37.2M	89,372
Sovereign	B-	\$250	10.8%	5.44%	125.70%	\$68.1M	358,442
Public-Private	Α	\$1,000	4.18%	3.13%	0.42%*	\$37.9M	TBC
	Total	US\$3,550M				US\$551.3M	2,342,364 km ²

Successful execution of active opportunities would protect an area three times the size of Germany, while generating \$250M in net revenues (year 7) for Emergent through MPA budget management and monetization of blue carbon and biodiversity credits.



Investment Opportunity



Impact Opportunity to Lead Blue Bond Space

We are initially seeking up to **US\$18 million** in growth capital. These funds will be used to execute a pipeline of sovereign-scale bonds. We project generating **6x Multiple** (10 years) in financial return, protecting over **2 million km²** of marine ecosystems, annually sequestering over **35 million tons of carbon** & accelerating **national regenerative blue economies**.

Use of Funds

\$1.3 M

Marine Biodiversity Investment Ratings

Emergent Global will commercialize its investment intelligence technology helping to drive supply and demand.

\$4.1 M

Bond Market Maker

Emergent Global will develop a bond marketplace facility that will structure & execute large sovereign and private bond deals.

\$7.9 M

Marine Biodiversity Technology Platform

Emergent Global will develop a next-generation remote-sensing based MRV platform, leading the market to the financialization of marine biodiversity.

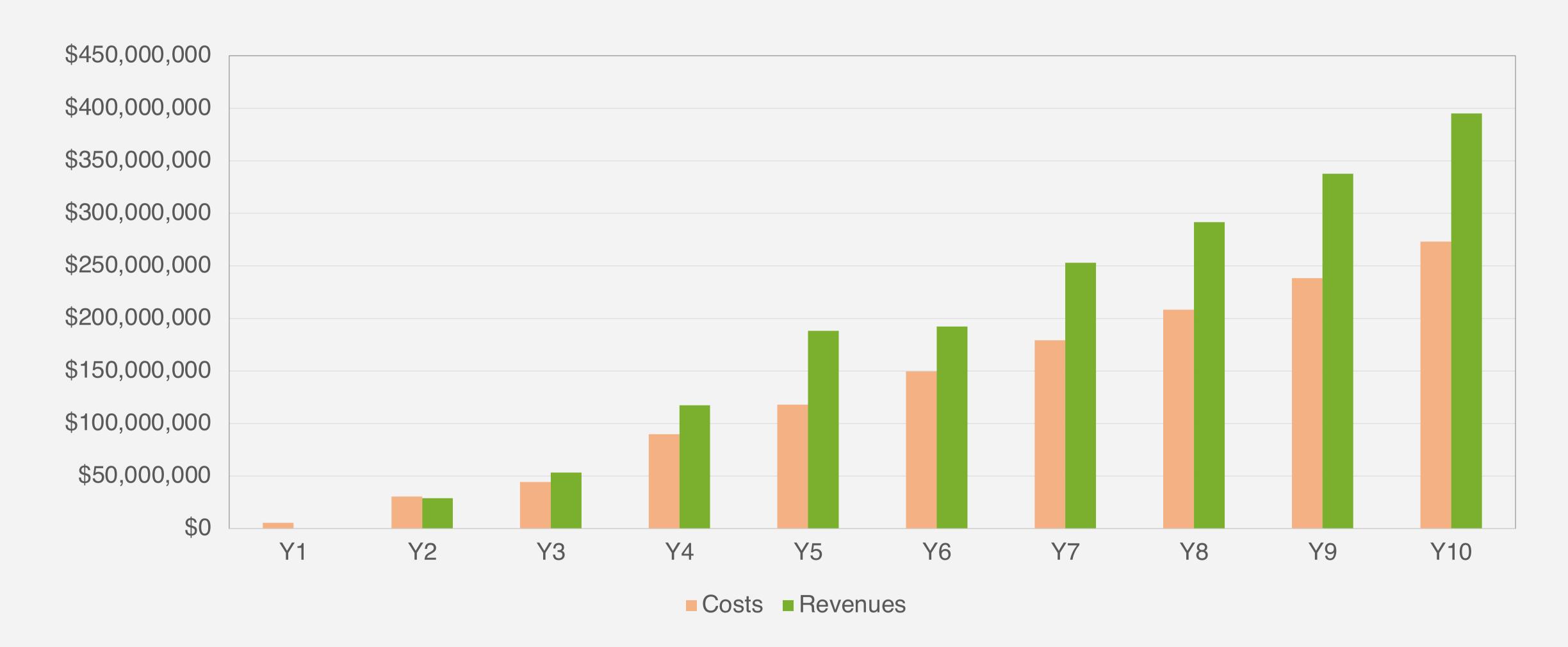
\$4.7 M

ODISEA Incubator Platform

Emergent Global will deploy ODISEA research vessel to collect in-situ baseline samples and create digital media products for marketing.



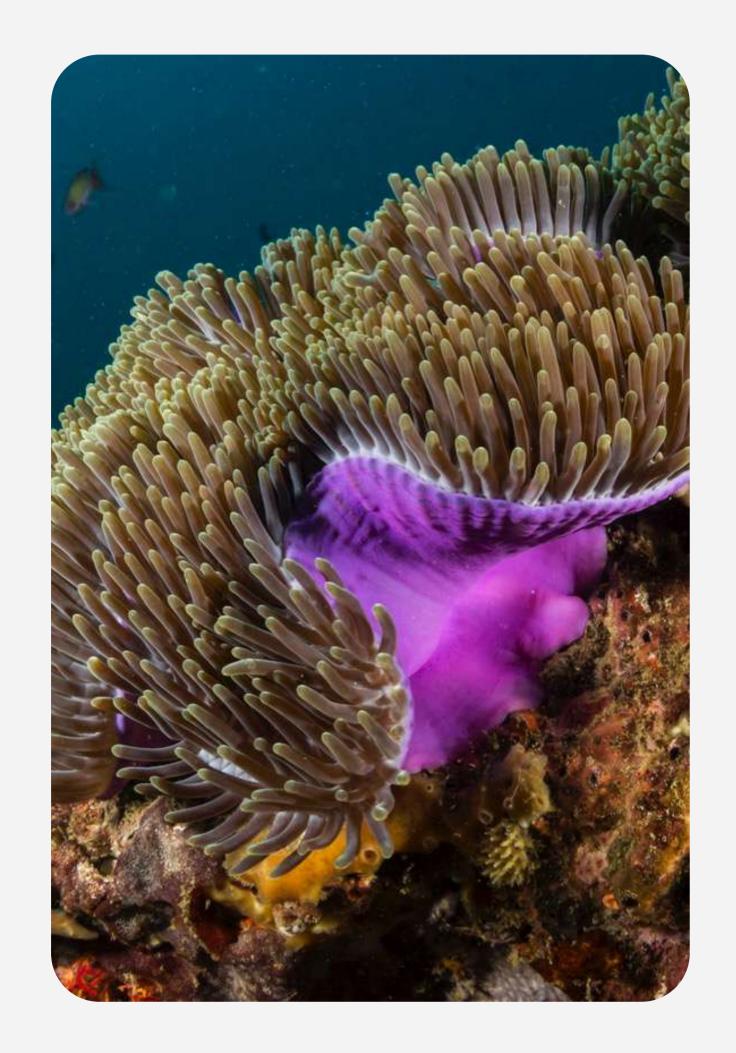
Significant Revenue Projections





Common Stock Offering

Issuer	Emergent Global	
Туре	Private placement of common shares	
Offering Size	Up to US\$ 20.0 million	
Offering Price	US\$ 5.0 / share	
Offered Shares	Up to 4.0 million shares	
Use of Proceeds	To fund general, legal, technology, administrative expenses	
Share Capital	4 million shares pre-money	







Investment Highlights

- Unique opportunity to invest in a scaling climate solution.
- Highly experienced team with the world's most respected carbon projects.
- Key partnerships and relationships in place.
- Attractive valuation with material upside.
- Significant impact in achieving ambitious Global Biodiversity
 Framework targets and opportunity to accelerate an emerging market.



Thank You

info@emergentglobal.earth











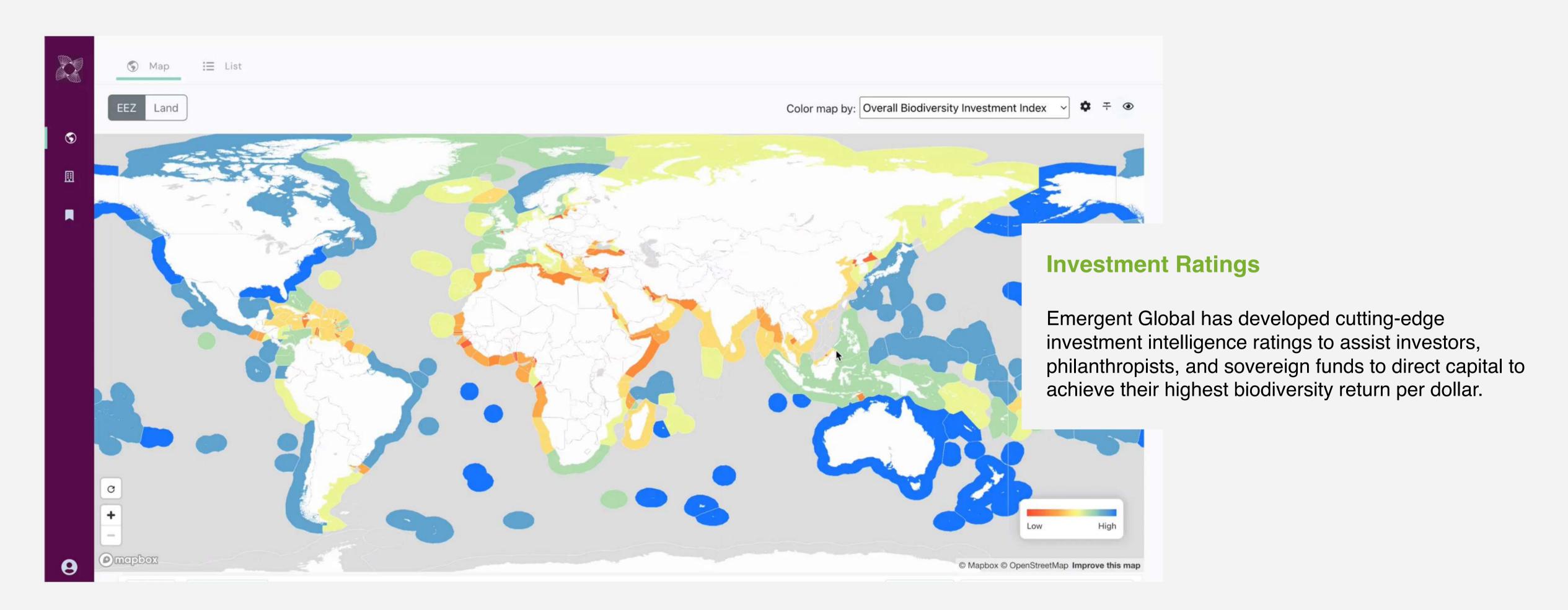








Product: Nature Investment Intelligence Ratings





Product: Nature Investment Intelligence Ratings

Emergent Global facilitates capital market transactions by accurately valuing Marine Biodiversity assets using our pricing theory based on the global marginal cost of abatement (cost of conservation). These assets are rated in a global context for risk, impact, and investment potential, offering investment-grade intelligence.



01

Determine Biodiversity Asset Volume

Ecosystems (abundance and richness) and species (richness and abundance) are allocated to individual Marine Biodiversity
Repository Asset Owners based on global distribution.



02

Adjust Volume by Quality

Marine Biodiversity asset volume is assessed in the quality of habitants and species.



Adjust for Risk

The quality adjusted marine biodiversity asset is assessed in 23 anthropogenic stressors (physical risks) and 3 system responses (governance).



04

Adjust for Impact

The total value of each jurisdictional Marine Biodiversity Units (MBUs) is assessed in both its potential social (GDP PPP) and ecological (EEZ) impact.

Marine Biodiversity Unit (MBU)

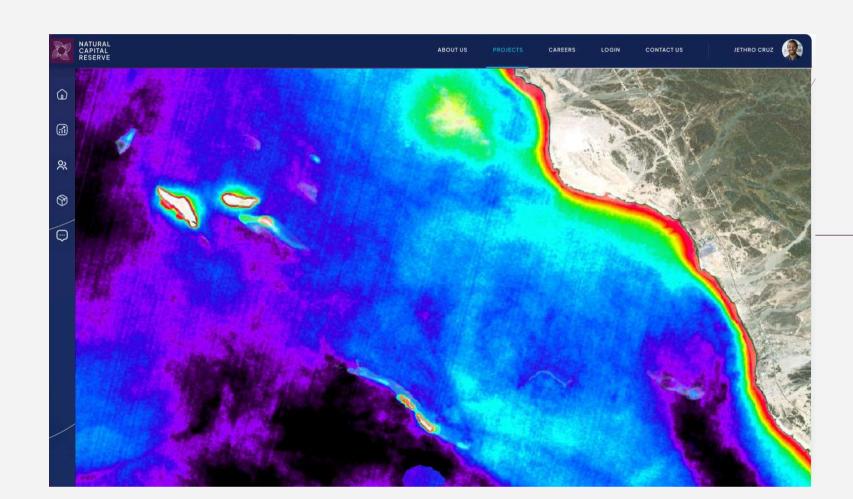
Risk Rating: (AAA – C)

Impact Rating: (AAA – C)

Overall Biodiversity Investment Rating: (AAA - C)



Product: Digital MRV Platform





Next-Generation Remote Sensing Foundation

In collaboration with leading geospatial experts, we are leveraging a decade of advanced remote sensing research & non-public access to NASA high-fidelity sensors, to deliver scalable solutions for biodiversity monitoring at ecologically functional scales. Our innovative approach combines predictive models with cutting-edge technology to track blue carbon ecosystems and marine biodiversity through space & time. Over the next three years, we will streamline & automate these models, integrating them into our project pipeline for seamless deployment & maximum impact.



Ecosystem Habitat Mapping



Climate Resilience Modelling



Genetic Seed Bank Identification



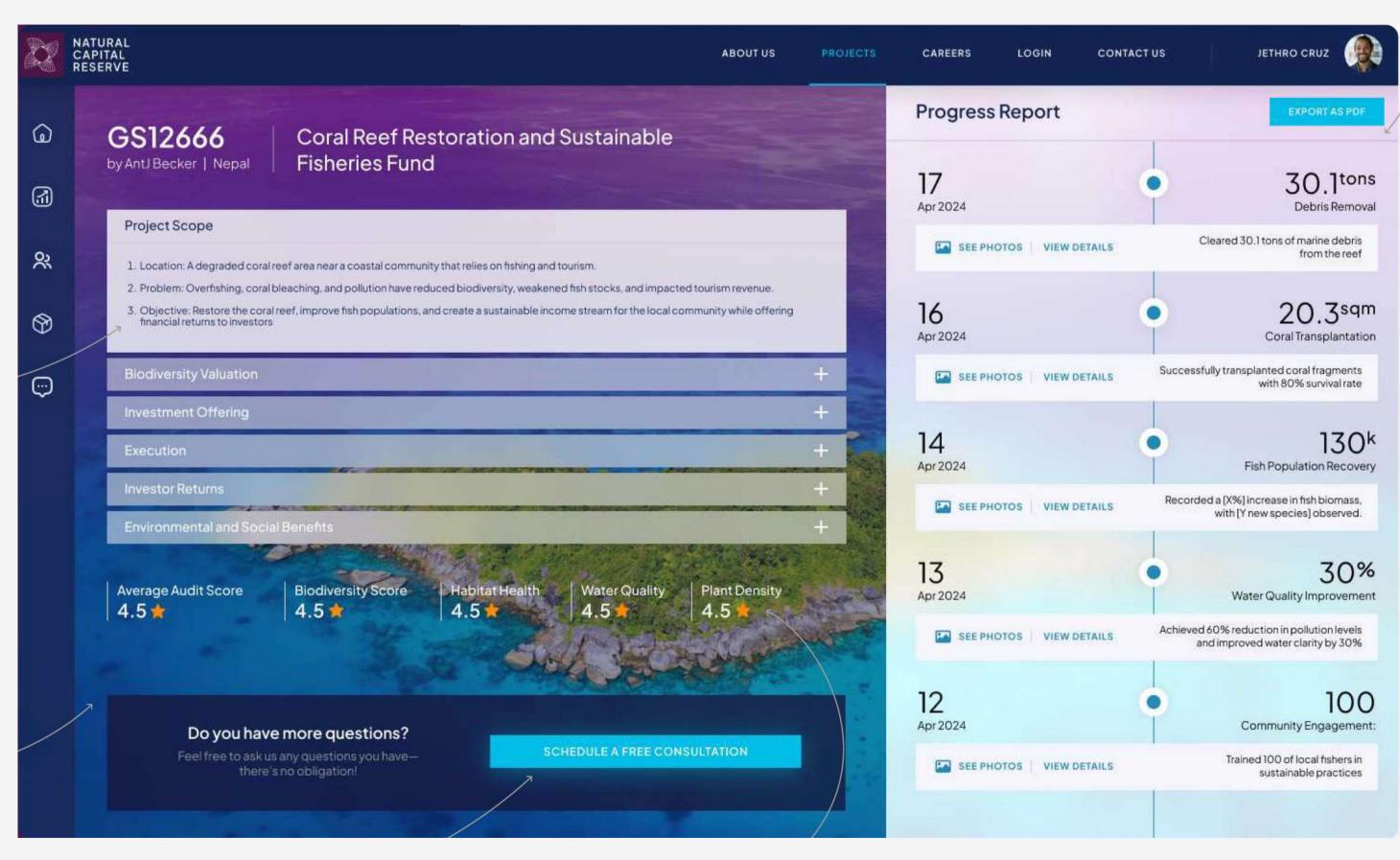
Marine Biodiversity Stratification



Integrated In-Situ Verification System



Product: Digital MRV Platform



*Mock design developed by third-party vendor (contract in advanced discussions)

dMRV Platform

Emergent Global's centralized digital platform will connect investment intelligence, pipeline supply opportunities for biodiversity & carbon credits and our proprietary MRV system which visualizes conservation impact in near real-time. The platform will be a key market driver.



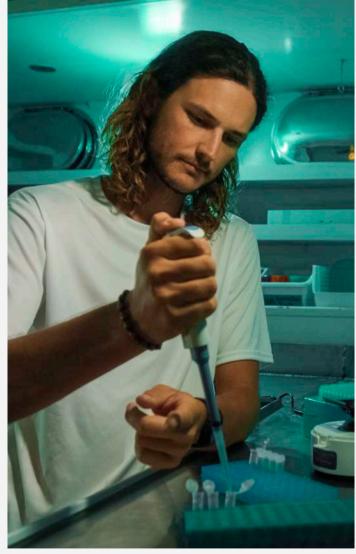




Research Vessel

ODISEA is Emergent Global's floating incubator platform on a 5-year voyage around the world to advance marine biodiversity baseline accounting, highlight conservation success stories and explore the viability of blue financing instruments for ambitious countries.







Science & Exploration

Biodiversity baseline assessments for regional seascapes, while providing a research platform for "special" projects such as exploring remote regions.



Storytelling

Communication of transformative science, community impacts and involvement through compelling storytelling.

Engaging Stakeholders

The expedition will provide a central place for different stakeholders to engage and share forward-thinking novel approaches.

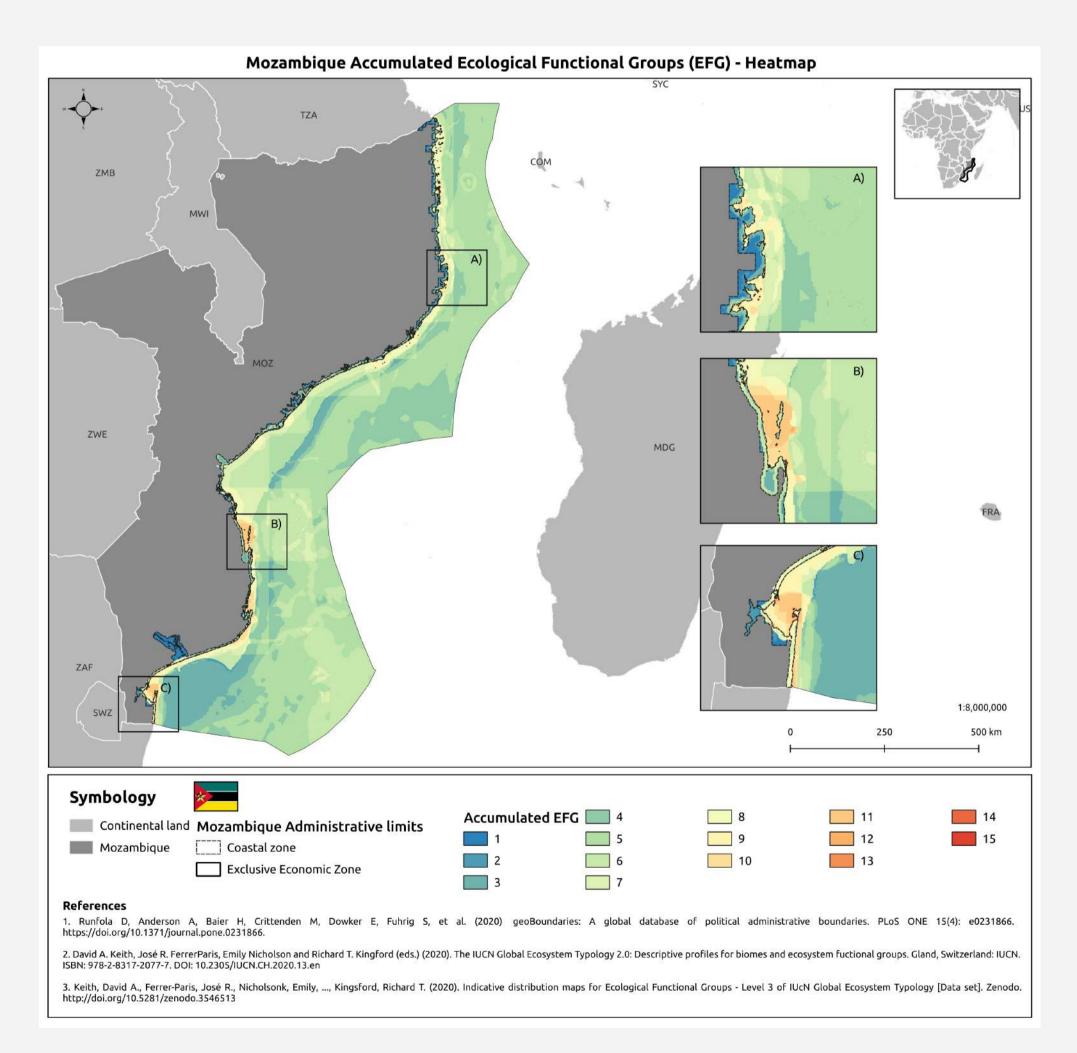


Unlocking Finance

Develop the building blocks to unlock novel blue finance mechanisms for marine protected areas.



Mozambique: Biodiversity Hotspot supporting Livelihoods



2%

of Mozambique's **marine area** is currently protected.

850,000

people are directly **employed** in fishing sector.

10.3%

of **GDP contribution** from fishing sector.

\$25.6M

required annual budget to **properly** manage and protect 30% of marine area and blue carbon ecosystems.

Source: Stanford Center for Ocean Solutions, Stanford University, USA and the Institute for Oceans and Fisheries, University of British Columbia, Canada



Creating Financially-Backed Protection for Important Marine Ecosystems

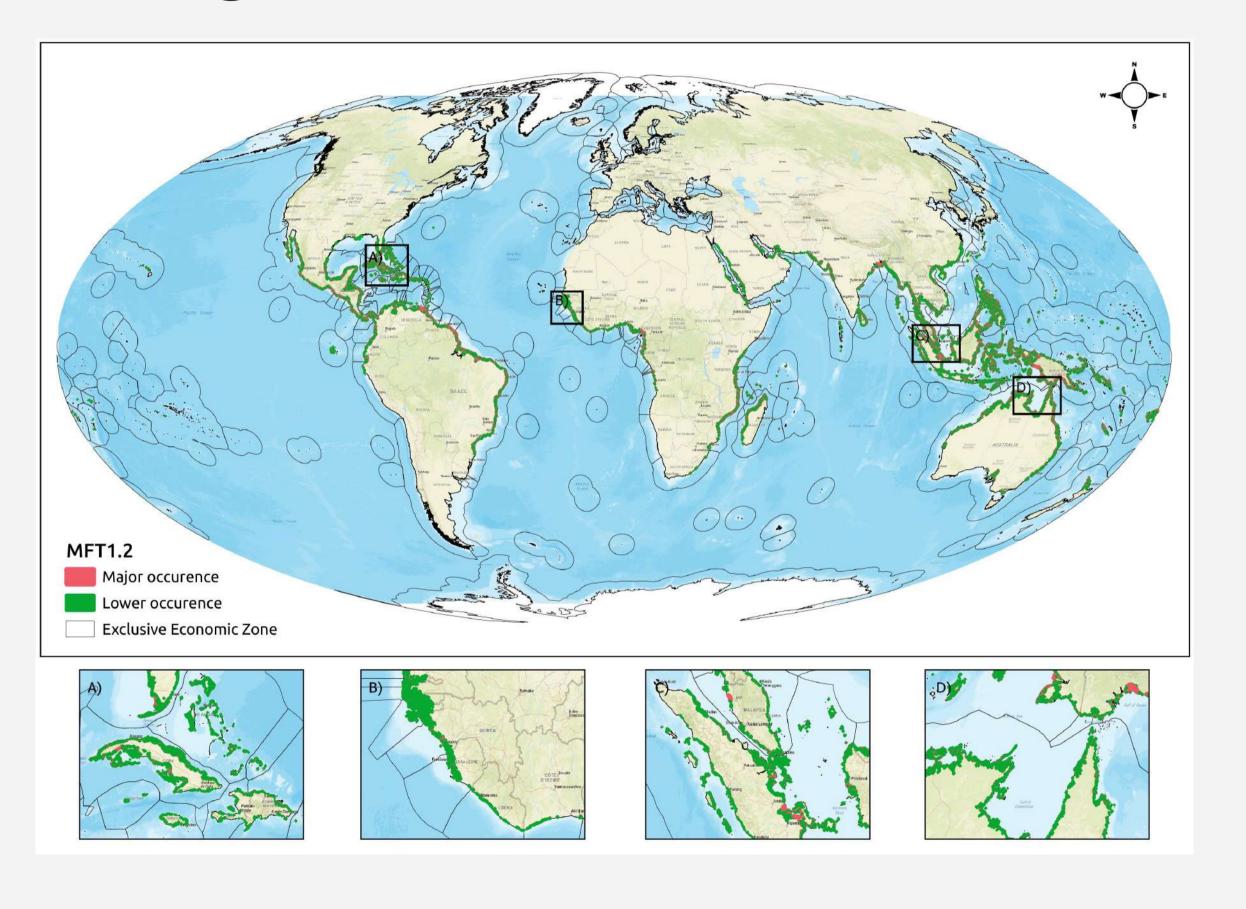


Actions

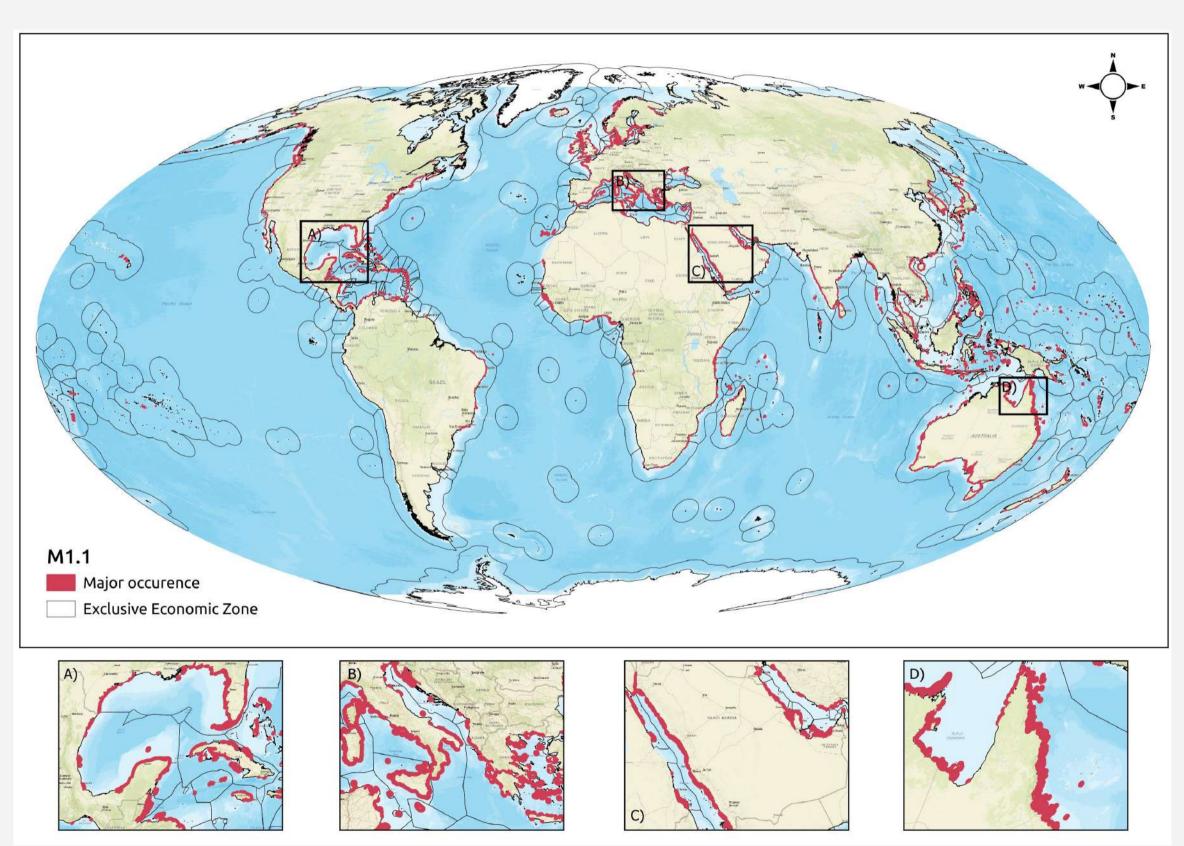
1. Identify Areas	Deploy next generation remote sensing technology in partnership with University of Miami to identify potential areas for protection . NASA high-fidelity sensors allow robust identification on ecological and genetic scale.	
2. Conduct Biodiversity Assessment	Calibrate remote sensing data with eDNA and bioacoustics.	
3. Engage Communities	Engage with local communities to align appropriate protection measures and accelerate a sustainable blue economy program to transition away from extractive practices.	
4. Secure Blue Finance	Blue Finance is secured through private sector market using bond instruments, carbon credits and biodiversity credits.	
5. Implement Marine Protected Areas	A national program is implemented to protect at least 30% of marine areas , with a gradual livelihood management plan to convert all of these into fully protected no-take zones.	
6. Monitor Impact	Remote sensing and in-situ sampling monitor baseline using a low-cost MRV and blockchain registry system.	
7. Financial Returns	Credits provide significant financial returns for the investors, national treasury and local communities.	



Mangrove Distribution



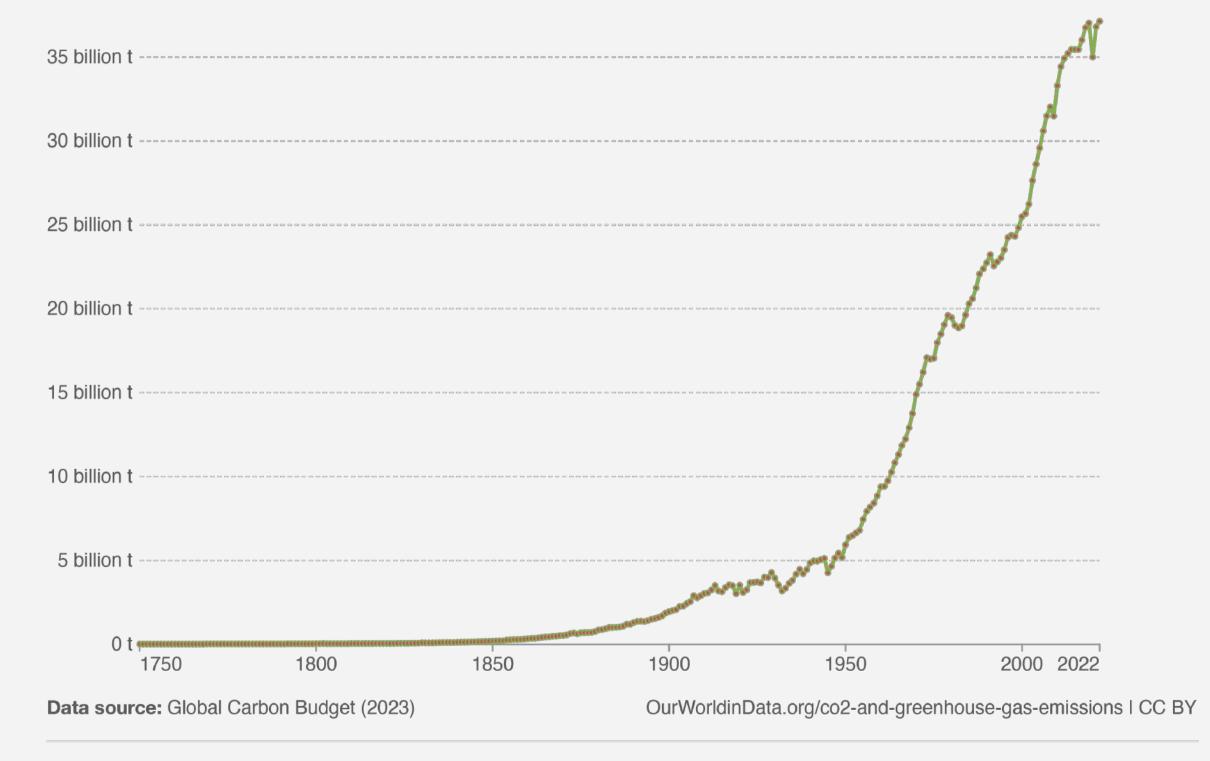
Seagrass Distribution





Annual CO₂ emissions

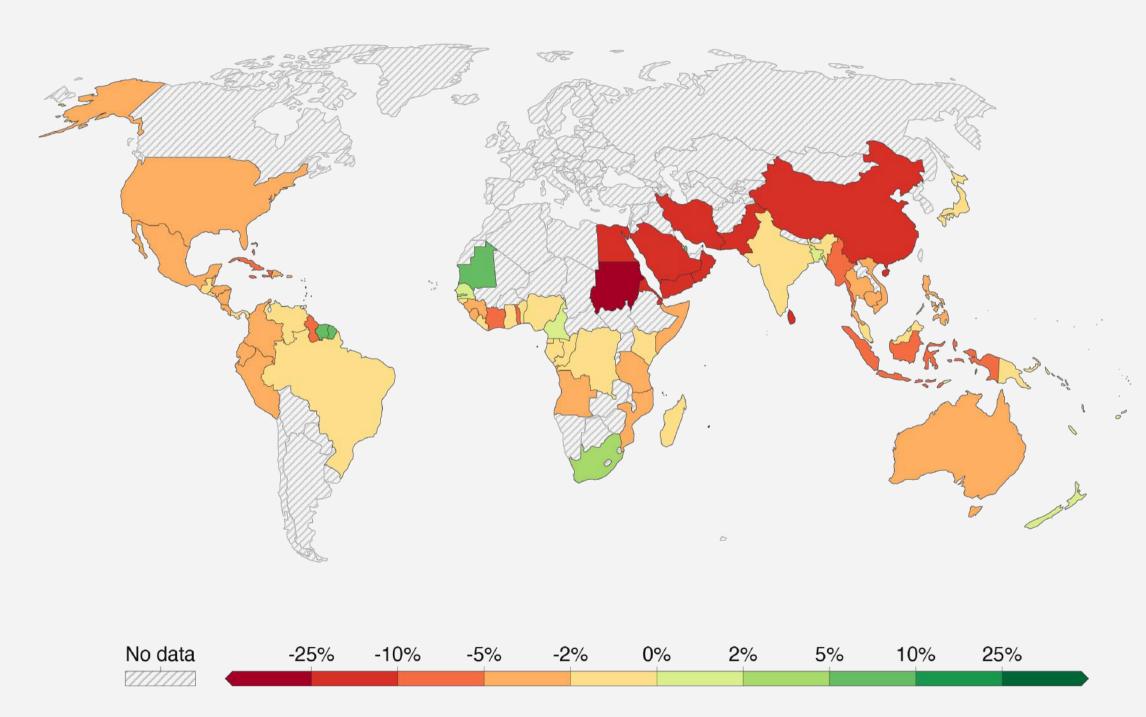
Carbon dioxide (CO₂) emissions from fossil fuels and industry¹. Land-use change is not included.



^{1.} Fossil emissions: Fossil emissions measure the quantity of carbon dioxide (CO₂) emitted from the burning of fossil fuels, and directly from industrial processes such as cement and steel production. Fossil CO₂ includes emissions from coal, oil, gas, flaring, cement, steel, and other industrial processes. Fossil emissions do not include land use change, deforestation, soils, or vegetation.

Mangrove Loss Rates in 2020

Percentage change in mangrove area from the baseline extent of mangroves in 2000.



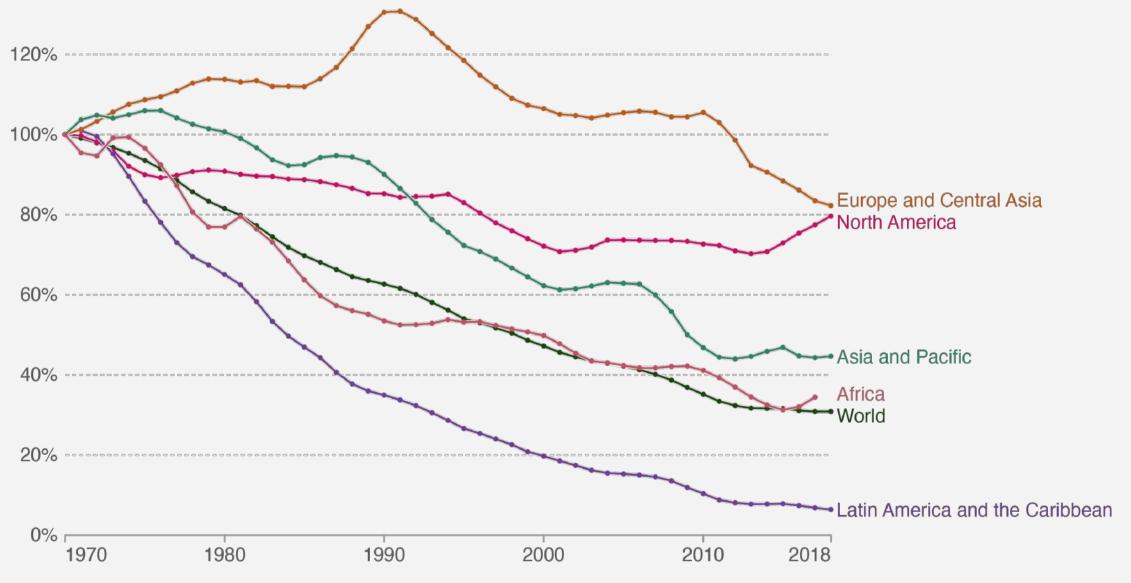
Data source: UN Environment Programme

OurWorldinData.org/forests-and-deforestation I CC BY



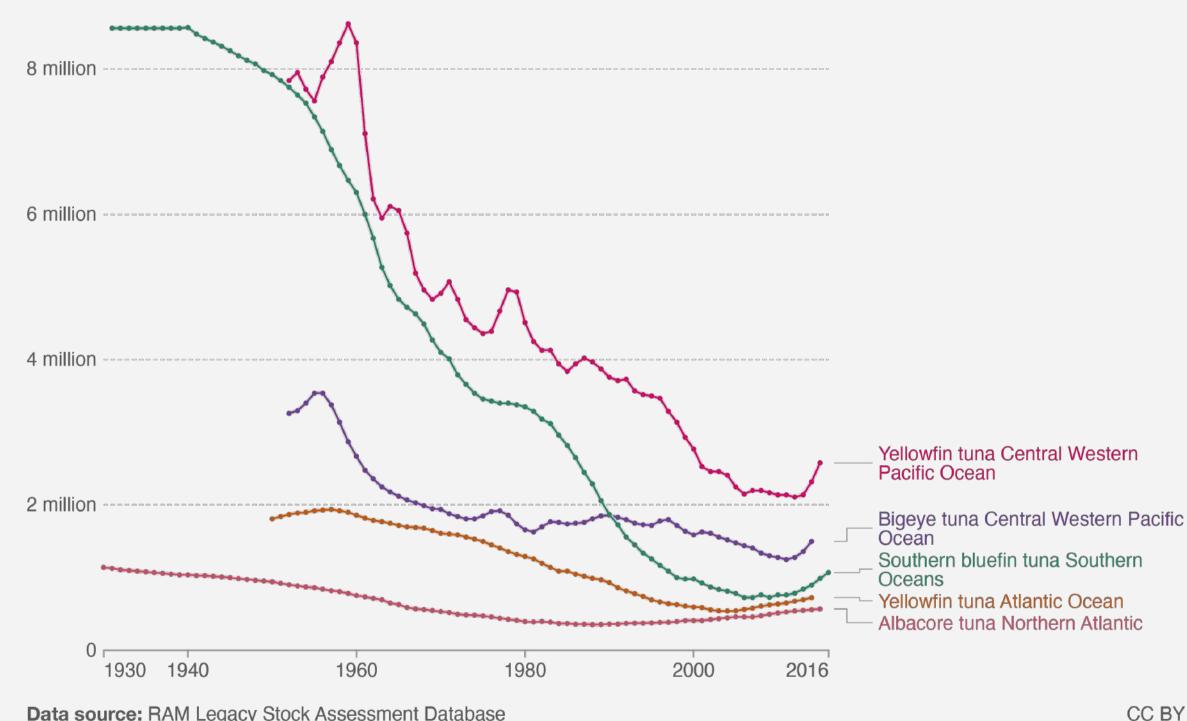
Living Planet Index by Region Tuna Stocks

The Living Planet Index (LPI) measures the average relative decline in monitored wildlife populations¹. The index value measures the change in abundance in 38,427 populations across 5,268 species relative to the year 1970 (i.e. 1970 = 100%).



Data source: World Wildlife Fund (WWF) and Zoological Society of London (2022) OurWorldinData.org/biodiversity I CC BY Note: Some regions of the world are will have experienced significant biodiversity loss prior to 1970, this earlier loss will not captured in this metric.

Fish stocks are measured by their biomass: the number of individuals multiplied by their mass.



Data source: RAM Legacy Stock Assessment Database

^{1.} Population: A population is a group of individuals of the same species that live in the same geographic area. A species will often have multiple or many populations, each living in a different area.



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