

ALUMNI NETWORK

2024

**Annual
Report**



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FOREWORD



Andrew Tauhert

XPRIZE Chief Impact Officer

Reflecting on 2024, I am inspired by the significant milestones and tangible impact delivered by the XPRIZE alumni community. This year, our alumni have demonstrated extraordinary innovation, collaboration, and resilience, advancing solutions that address critical global challenges.

The contributions of our alumni are central to XPRIZE’s ongoing mission to drive lasting change. Their efforts not only amplify our collective impact but also set a powerful vision for continued progress and growth.

With deep appreciation for these achievements, I look forward to another transformative year ahead.

EXECUTIVE SUMMARY

In 2024, the XPRIZE Alumni Network continued to demonstrate global leadership and measurable impact across sectors, from pioneering alternative protein breakthroughs in the newly concluded XPRIZE Feed the Next Billion to next-generation biodiversity assessments in XPRIZE Rainforest. Through strategic partnerships and ongoing support, the Alumni Network helped ensure the growth of the groundbreaking solutions initiated by XPRIZE competitions.

2024 KEY HIGHLIGHTS

- **Expanded Engagement:** Engagement in the Alumni Network increased by 19%, resulting in 460 alumni touchpoints.
- **Innovations in Focus:** XPRIZE Feed the Next Billion and XPRIZE Rainforest solutions garnered global recognition, from fermentation-based seafood to canopy rafts for rapid species identification.
- **Global Accolades:** Alumni earned a remarkable slate of top international awards and grants in acknowledgement of their impact.
- **Network Diversification:** Nearly 600 alumni teams representing 27 distinct prizes contributed solutions to global challenges across countless industries.

ABOUT THE ALUMNI NETWORK

Every XPRIZE competition begins as a grand challenge—an audacious call to solve global problems. But once the prizes are awarded, the story isn't over. The [XPRIZE Alumni Network](#) continues nurturing the solutions, teams, and partnerships necessary to drive lasting change, extending each competition's legacy beyond its final awards. We champion bold innovators in turning prototypes into scalable, world-changing ventures. **Our vision: a connected global community that fast-tracks the world's most necessary solutions.**



XPRIZE provided a global platform. Our progression through the competition gave credibility to a technology often deemed impossible to create. We continue to benefit from deep relationships created during the competition and from participation in alumni events hosted by XPRIZE.”

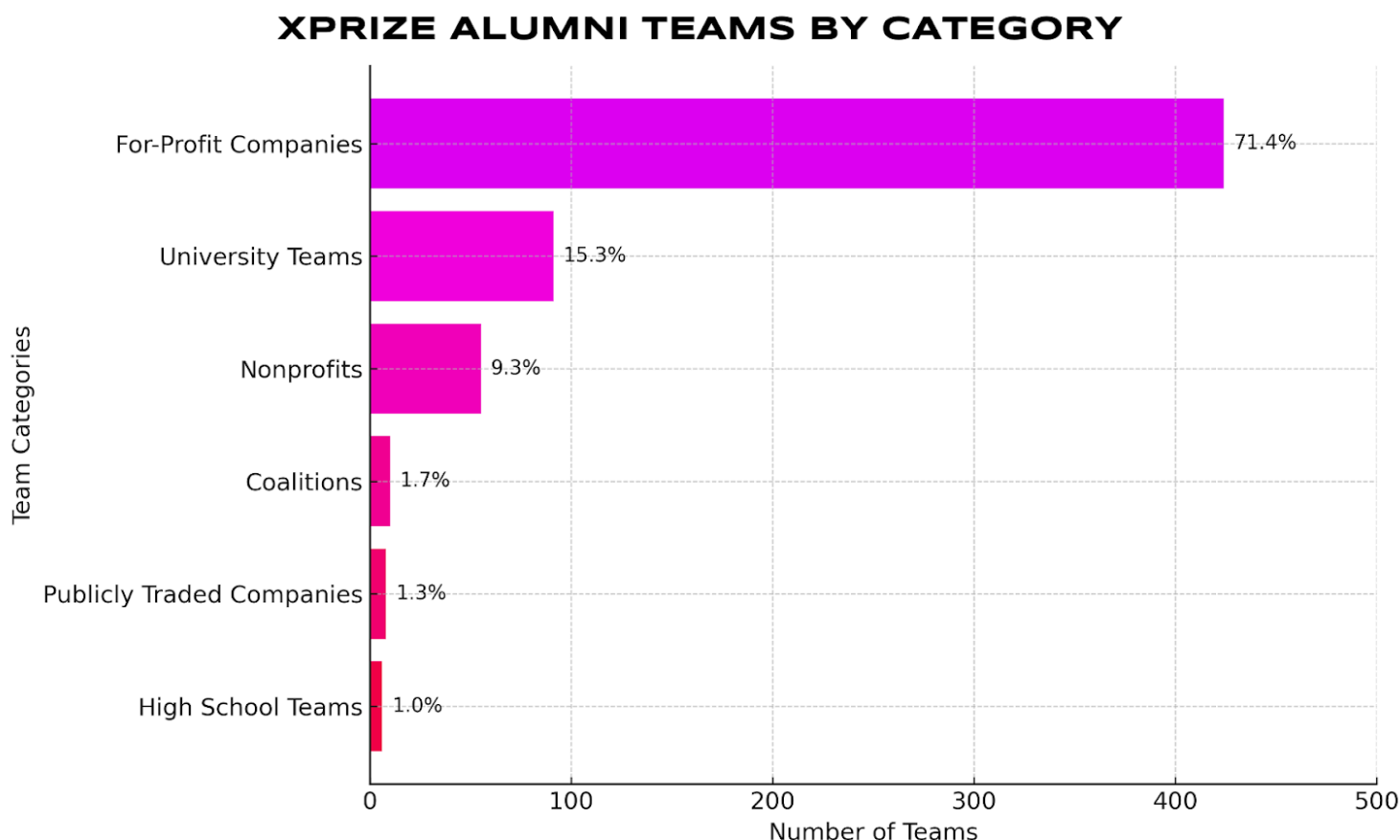


Daniel Camilleri

BOW Founder & CTO
ANA Avatar XPRIZE alumnus

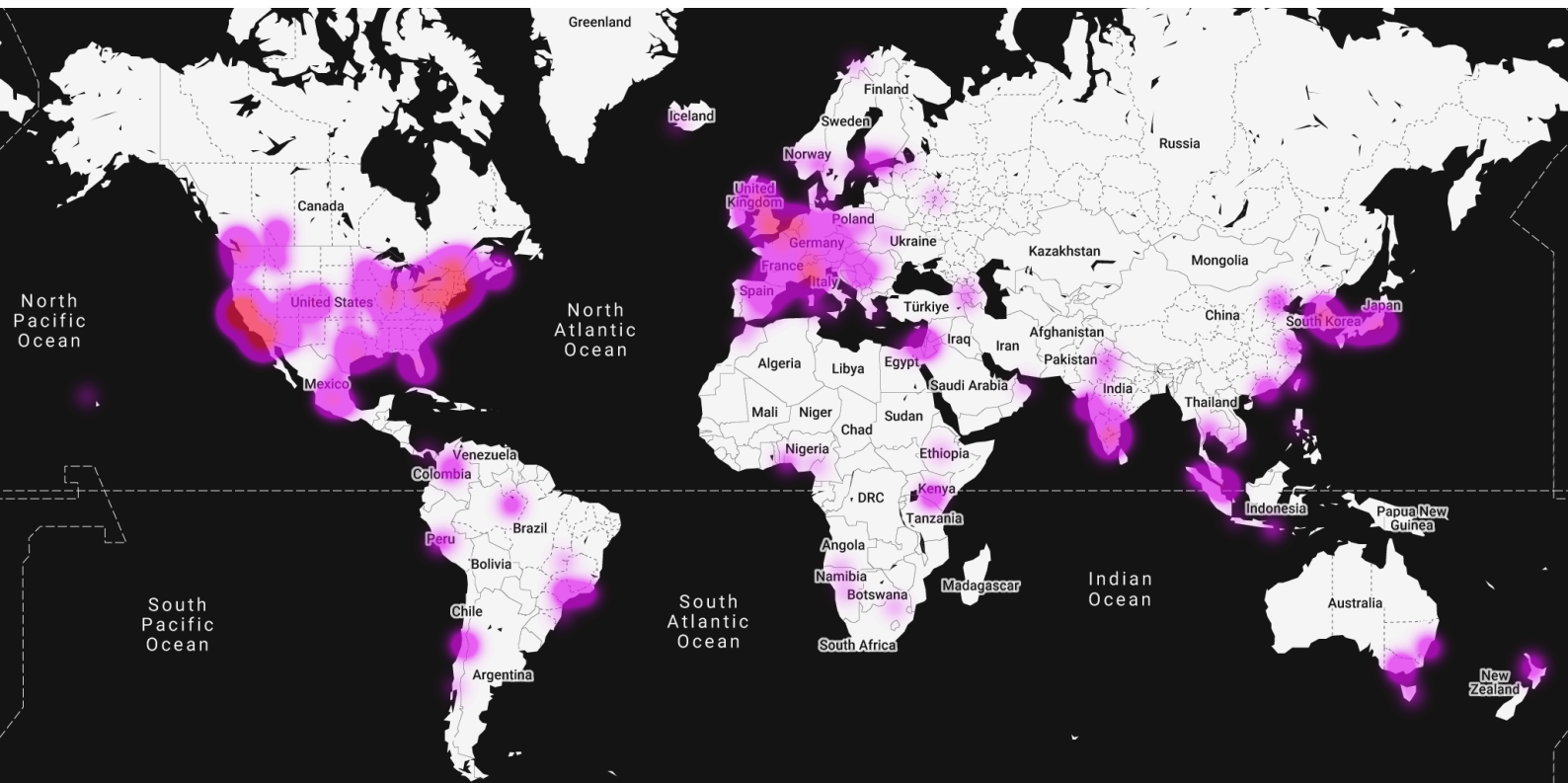
WHO'S IN THE NETWORK

1,261 alumni from **590 teams** (+19% since 2023) spanning **27 prizes** are in the Alumni Network. This diverse group reflects the Foundation's multi-faceted approach to solving global challenges:



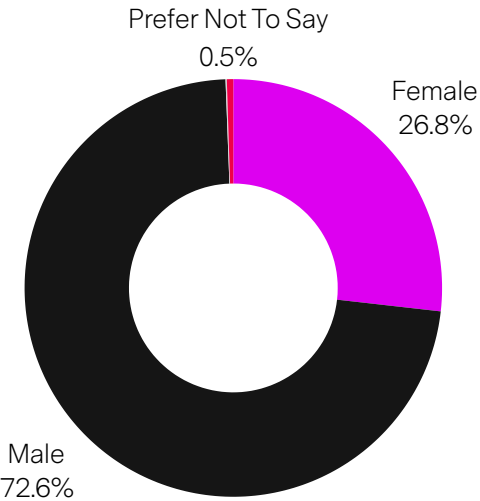
- **For-Profit Companies (71.5%):** Scaling up solutions to meet commercial demand.
- **University Teams (15.3%):** Driven by academic R&D, bridging research labs and real-world pilots.
- **Nonprofits (9.2%):** Community-focused organizations.
- **Coalitions (1.7%):** Showcasing the power of strategic alliances, uniting diverse expertise to drive innovation.
- **Publicly Traded Companies (1.4%):** Established market players bridging corporate resources with innovative solutions.
- **High School Teams (1.0%):** Demonstrating the impact of next-generation thinkers, with fresh perspectives to complex challenges.

XPRIZE ALUMNI GLOBALLY



Geographic Distribution: Global network of alumni spanning 59 countries.

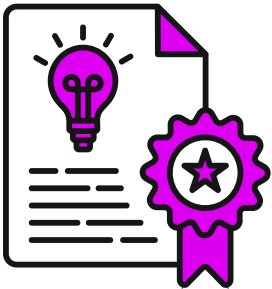
● Female ● Male ● Non-Binary ● Prefer Not To Say



Gender representation: The Alumni Network is composed of 72.6% male and 26.8% female members.



US \$5.2B+: Funding raised by XPRIZE competitors during and after their competitions.



4,176 patents filed by alumni teams during and after their XPRIZE competitions.



Behavior was able to access opportunities through XPRIZE that have helped spur progress milestones, opportunities to share our work on a worldwide stage, and other resources through the XPRIZE Alumni Network that continue to have a lasting impact.”



Ellie Gordon

Behavior Founder & CEO
IBM Watson AI XPRIZE alumna
XPRIZE Health Brain Trust

HOW ALUMNI ENGAGE WITH XPRIZE



Image credit: NYSE.TV

The XPRIZE Alumni Network significantly expanded its support efforts for alumni in 2024, delivering value through strategic engagements designed to amplify growth, visibility, and collaboration. Key areas of engagement included:

1. **Workshops and Webinars:** Expert-led sessions focused on critical skills such as venture scaling, investor readiness, and marketing strategies. Consistent growth in attendance year-over-year highlights the strong demand and value alumni place on these peer-learning and skill-enhancement opportunities.
2. **Conferences:** Increased alumni participation at influential global forums—including the United Nations Climate Change Conferences (COP) and leading impact convenings like [SOCAP](#)—enabled alumni to secure partner introductions, media visibility, and funding connections. The network’s growing presence on world stages reflects its commitment to elevating alumni globally.
3. **Networking Mixers:** Held in major innovation hubs like New York, San Francisco, and Los Angeles, mixers connect alumni informally for collaborations and shared business opportunities.

4. **Repeat Competitors:** A number of alumni have re-engaged with XPRIZE by competing in multiple competitions—bringing forward lessons learned, evolving technologies, and renewed ambition. As of 2024, **70 alumni have participated in more than one XPRIZE**, highlighting the lasting value of the experience and the strength of the innovation ecosystem it fosters.



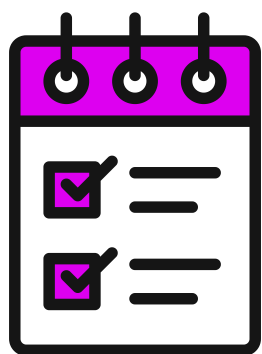
Being able to go to conferences and speak with other alumni really helped. We met key people at alumni meetings. We have probably 15 NGOs in Africa using Learning Upgrade—all because of an XPRIZE alumni guest speaker opportunity."



Vinod Lobo

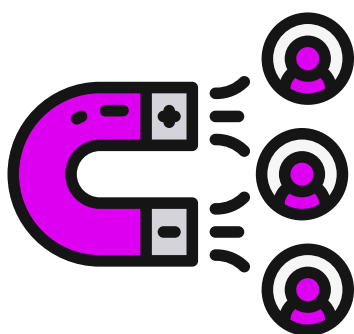
Learning Upgrade Founder & CEO
Adult Literacy XPRIZE alumnus
XPRIZE Learning & Society Brain Trust

2024 ENGAGEMENT BY THE NUMBERS



65

Distinct and diverse activities, thoughtfully curated to address alumni needs



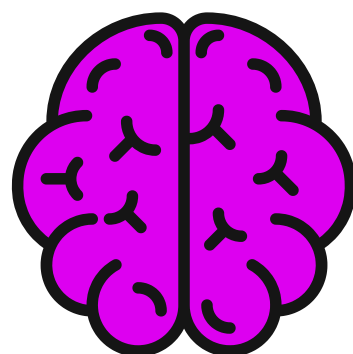
460

Unique instances of engagement, reflecting robust participation and a highly collaborative community



73

Featured speaking opportunities, proactively positioning alumni as thought leaders across multiple sectors and media



6

Alumni served on the Brain Trust for XPRIZE's Global Visioneering, actively influencing XPRIZE's future prize agendas

Through these strategic efforts, XPRIZE continues to foster a vibrant community where alumni can thrive, scale their solutions, and amplify their global impact.

2024 PROGRAM & EVENT HIGHLIGHTS



NEW YORK STOCK EXCHANGE XPRIZE IMPACT RECEPTION

During NYC Climate Week 2024, 36 alumni innovators gathered at the New York Stock Exchange, where South Africa President Cyril Ramaphosa rang the Closing Bell. The event spurred investor networking, 21 strategic introductions, and amplified alumni stories through [five NYSE.TV Floor Talk interviews](#).



VISIONEERING 2024

At Visioneering, alumni led panels, showcased their technology, and networked with 500 industry leaders, philanthropists, policymakers, and sustainability experts. Among the highlights, astrophysicist Neil deGrasse Tyson tried out the **Aptera** (Progressive Automotive XPRIZE) solar electric vehicle, experiencing cutting-edge alumni sustainable technology firsthand.



XPRIZE INNOVATORS EPISODES

Our [XPRIZE Innovators video series](#), featured on the XPRIZE YouTube channel with over half a million subscribers, highlights alumni journeys from ambitious ideas to real-world impact, showcasing their inspiring stories of innovation and resilience.



VERGE SOLUTIONS SHOWCASE

With mentorship from the [Young Presidents' Organization](#) (YPO), six alumni teams pitched their climate innovations, generating interest from investors and partners to advance their impactful solutions.



PRIZE
ALUMNI

TRAILBLAZERS

ADRIENNE LEE

DIMENSIONAL ENERGY
FINALIST | NRG COSIA CARBON XPRIZE



3 THINGS INVESTORS ARE LOOKING FOR



BUSINESS MODEL
AND IMPACT
INTERLOCK



PROOF AND
EVIDENCE OF
IMPACT THESIS



ACTIVE
MANAGEMENT OF
IMPACT
STRATEGY

TELUS Global Ventures

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ALUMNI TRAILBLAZERS WEBINAR SERIES

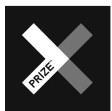
The Trailblazers series spotlighted alumni successes, including **Dimensional Energy's** commercial scale-up after the NRG COSIA Carbon XPRIZE and **Terracotta's** research on advancing experimental education methods from the Digital Learning Challenge, fostering targeted connections and peer-learning opportunities.

EDUCATIONAL SESSIONS FOR GROWTH & IMPACT

This year, the Alumni Network delivered high-impact sessions to equip founders with the tools to scale their innovations. Experts from [Wellington Management](#) and [TELUS Pollinator Fund](#) shared strategies for securing climate and corporate impact investments. [Growth Institute](#) led a deep dive on optimizing startup operations, while [Interplay VC](#) provided guidance on scaling and fundraising for long-term success.

WELCOMING NEW ALUMNI

In 2024, two XPRIZE competitions concluded, further expanding the Alumni Network with innovators who have been advancing critical global solutions across two domains:

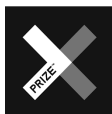


XPRIZE
FEED THE
NEXT BILLION



ASPIRE

Innovations in fermentation-based and cultivated meat and seafood achieved market and regulatory milestones, opening pathways for scalable, sustainable protein solutions.



XPRIZE
RAINFOREST

alana

Solutions like canopy rafts and AI-driven bioacoustic tracking are deploying in pilot programs across Latin America and Southeast Asia, identifying endangered species faster than ever.

“

XPRIZE Rainforest gave us the funding, motivation, and collaborative community to move this technology forward. Limelight has the potential to revolutionize the rate at which we monitor and assess biodiversity with technology that's small enough to fit in a backpack.”



Tom Walla

Limelight Rainforest Team Lead
Colorado Mesa University
Professor of Biology
XPRIZE Rainforest Winner

Yet, these finales aren't just an end—they're the launchpad for something deeper, sustained by the Alumni Network's dedication to post-prize innovation and real-world adoption.

DEEP DIVE: 2024 ALUMNI IMPACT

In 2024, XPRIZE alumni reached extraordinary milestones, scaling groundbreaking innovations, securing strategic partnerships, and driving meaningful global change. Their contributions spanned industries, proving that innovation can effectively address humanity's most pressing challenges, transforming entire sectors and impacting millions worldwide.

ACCELERATING CARBON REMOVAL GLOBALLY



XPRIZE alumni made groundbreaking strides in carbon removal and climate innovation, establishing themselves as global leaders in tackling climate change. **Mati Carbon** (XPRIZE Carbon Removal) achieved a historic milestone, becoming the [first organization to deliver engineered carbon dioxide removal from the Global South](#). Utilizing enhanced rock weathering technology in Zambia and Tanzania, Mati Carbon partnered with over 10,000 smallholder farmers, removing 50 tons of verified CO₂ while significantly revitalizing soils and increasing farmers' income by over \$1 million. Recognized by the [Bezos Earth Fund's \\$1M Greenhouse Gas Removal Ideation Prize](#), Mati Carbon exemplifies how climate solutions can intertwine environmental and social impact.

Image credit: BIOSORRA

Additionally, **BIOSORRA**, **Airhive**, **Octavia Carbon**, and **Takachar** (XPRIZE Carbon Removal) secured vital [early-stage investments from AirMiners Kiloton Fund and Shopify](#), accelerating their technologies in biochar and enhanced weathering. **BIOSORRA** further garnered the [prestigious Keeling Curve Prize](#) for its transformative work in East Africa, which emphasizes climate justice.

“

Competing in XPRIZE was an intense and extremely transformative experience. It pushed us to focus on designing a carbon removal solution with the lowest capex intensity, maximizing both impact and scalability. We are deeply honored to be part of the XPRIZE alumni community, united in driving meaningful climate action. This is just the beginning.”



Carla Escobedo Jalife

BIOSORRA Co-founder & CFO
XPRIZE Carbon Removal alumna

Commercial validation surged as **Holocene Climate** and **Charm Industrial** (XPRIZE Carbon Removal) [signed landmark carbon removal deals with Google](#), validating direct air capture and biochar solutions at unprecedented scales. Strategic [multi-year partnerships with Microsoft](#) allowed **Lithos Carbon** and **UNDO Carbon** (XPRIZE Carbon Removal) to scale enhanced rock weathering solutions, collectively aiming to remove thousands of tons of CO₂ while delivering substantial environmental co-benefits. Additionally, **Ebb Carbon** (XPRIZE Carbon Removal) [secured the largest marine carbon dioxide removal deal to date](#) with Microsoft, committing to remove up to 350,000 tons of CO₂ over the next decade using ocean alkalinity enhancement.

REVOLUTIONIZING SUSTAINABLE MATERIALS



Image credit: CarbonCure

In sustainable construction and materials innovation, XPRIZE alumni achieved notable industry-wide transformations. **CarbonCure** (NRG COSIA Carbon XPRIZE, XPRIZE Carbon Removal) reached a major milestone by [removing half a million metric tons of CO₂ from the atmosphere](#), equivalent to removing 119,000 cars from the road for a year or preserving 583,000 acres of forest.

Carbon Upcycling Technologies (NRG COSIA Carbon XPRIZE) similarly reshaped the industry, [integrating over 200 tons of CO₂-enhanced fly ash into concrete](#). They contributed to over 2,000 tons of carbon-infused materials used in sidewalks, housing foundations, and infrastructure across Alberta. Their efforts earned them global recognition, including [awards from Forbes](#) and the [World Economic Forum](#), and a [victory in the Build Better Innovation Challenge](#).

Oco impacted the consumer products industry by [debuting innovative CO₂-mineralized beauty packaging for Caliray at Sephora](#), marking the first large-scale use of captured carbon in consumer packaging. This breakthrough used **Carbon Upcycling Technologies**'s carbon mineralization to create a packaging additive containing 15–20% captured CO₂. When combined with post-consumer recycled material, the packaging achieved enhanced strength and superior compatibility with mechanical recycling systems, presenting a scalable, effective solution to reduce carbon impact in everyday consumer products.



Image credit: Element Beauty

TRANSFORMING GLOBAL FOOD SYSTEMS



Image credit: FOX Business

XPRIZE alumni companies reshaped sustainable food systems, directly tackling global challenges such as overfishing and environmental degradation. **Aqua Cultured Foods** (XPRIZE Feed the Next Billion) marked a significant milestone by obtaining U.S. regulatory approval, with their seafood alternatives [securing Generally Recognized as Safe \(GRAS\) status](#). This enabled the successful launch of their fermentation-based seafood product, AQUA Tuna, [at a Michelin-starred restaurant](#). The debut earned acclaim for its taste, quality, consistency, and guest satisfaction, highlighting the product's potential to disrupt the traditional seafood industry.

In another major step forward for fermentation-based proteins, **The Better Meat Co.** (XPRIZE Feed the Next Billion) [received FDA GRAS status and USDA approval](#) for its Rhiza mycoprotein, enabling its use in both alternative and blended meat products. The company also [secured international clearance from Singapore's Food Agency](#), signaling growing global acceptance of next-gen protein ingredients.

New School Foods (XPRIZE Feed the Next Billion) leveraged a critical [\\$6 million investment from Inter IKEA](#), scaling up production of their plant-based salmon to contribute to ocean sustainability and global food security. Meanwhile, **Meati Foods** (XPRIZE Feed the Next Billion) advanced food innovation through their mycelium-based proteins, reshaping protein production at scale and [receiving Colorado's Manufacturer's Edge Emerging Manufacturer Award](#).



ADVANCING BIODIVERSITY & CONSERVATION GLOBALLY

Innovative conservation technologies deployed by XPRIZE alumni had a profound global impact on biodiversity and ecosystem preservation. The **Brazilian Team** (XPRIZE Rainforest) began conducting biodiversity diagnostics in Parque das Neblinas, a key conservation area in Brazil's Atlantic Forest. In collaboration with [Suzano](#), [The Nature Conservancy](#), [Instituto Ecofuturo](#), and [Pacto Pela Restauração da Mata Atlântica](#), the team is applying competition-tested technologies including LiDAR drones, high-resolution aerial photography, thermal imaging, and bioacoustic monitoring. This partnership yielded actionable insights into ecosystem regeneration and is informing sustainable forest management strategies. The Brazilian Team's continued success underscores the value of integrating scientific innovation with private sector conservation initiatives.



Image credit: Brazilian Team

Map of Life Rapid Assessments (XPRIZE Rainforest), [recognized by Yale's Faculty Innovation Award](#), pioneered groundbreaking geospatial biodiversity monitoring techniques, influencing conservation methodologies worldwide. Meanwhile, **Re-Forest-Er** (XPRIZE Rainforest) gained global recognition at the Geospatial World Forum, highlighting the expanding importance of geospatial technologies in global biodiversity conservation. Kamila Camilo from **ETH BiodivX** (XPRIZE Rainforest) [received the Communication for Transition Special Prize](#) for exceptional communication strategies that elevate public engagement and awareness in biodiversity conservation.



DRIVING GLOBAL HEALTH EQUITY



Healthcare-focused alumni made significant strides toward improving global health access and equity. **Owlstone Medical** (Nokia Sensing XCHALLENGE) secured a [\\$6.5 million grant from the Bill & Melinda Gates Foundation](#), advancing non-invasive, breath-based diagnostics for tuberculosis and HIV, particularly benefiting low-resource settings. **Labfront** (Qualcomm Tricorder XPRIZE) expanded its global reach through [Amazon Web Services' Health Equity Initiative](#), greatly enhancing wearable-device analytics to improve health research and address healthcare disparities worldwide.

PUSHING AEROSPACE & TECHNOLOGICAL FRONTIERS

Alumni developing aerospace technology achieved milestones in 2024. **Muon Space** (XPRIZE Wildfire) secured a [multimillion-dollar Phase II SBIR contract from Space Force's SpaceWERX](#) to develop advanced multispectral instruments, enhancing global wildfire detection and environmental monitoring capabilities.

Independence-X Aerospace (Google Lunar XPRIZE) reached a groundbreaking milestone by patenting Southeast Asia's first liquid propellant rocket engine powered by sustainable biogas from agricultural waste. This innovation, the world's first fuel cell-powered rocket utilizing deep-tech and nanotechnology, establishes a net-carbon-zero aerospace solution. Their dedicated nano launch vehicle, prominently featured in NASA's State of the Art Small Spacecraft Technology, positions Independence-X at the forefront of sustainable aerospace innovation, and they are currently developing Malaysia's first indigenous satellite launch vehicle.



Image credit: Independence-X Aerospace

INNOVATING THE CREATIVE ARTS & CULTURAL LANDSCAPE



Mercury Orbit Music (IBM Watson AI XPRIZE) won Best Original Song and Best Composer of the Future at the Cannes World Film Festival, showcasing the creative potential of alumni innovation to reshape media and entertainment landscapes. Additionally, they earned a [special recognition award from the 15th Hollywood Music in Media Awards](#) for their groundbreaking 3D-animated video, "Bullet Symphony 'Live Coding For Everyone,'" highlighting new pathways for music creation through interactive multimedia technology.

Image credit: IMDb

These milestones reflect the diverse and far-reaching impact of XPRIZE alumni—advancing solutions across climate, health, food, biodiversity, space, and the arts. With growing momentum from funders, policymakers, and industry leaders, 2024 laid the foundation for even greater breakthroughs in the years ahead.

LOOKING FORWARD: THE YEAR OF IMPACT

While XPRIZE Rainforest's prize phase has ended, we're just beginning an unprecedented Year of Impact—a dedicated, year-long program for winners and finalists to continue refining, deploying, and scaling their solutions in real-world ecosystems.

WHY A YEAR OF IMPACT?

- **Building on Momentum:** This specialized post-prize phase ensures the cutting-edge eDNA, canopy, and acoustic-tracking tools teams developed don't languish after awards.
- **Additional Support:** Finalists are now receiving targeted support to scale and deploy their technologies more widely. Through tailored alumni programming, XPRIZE is helping teams translate technical breakthroughs—like **Limelight Rainforest's** rapid biodiversity assessments [capable of sequencing 2,500 species in a week](#)—into lasting conservation impact at global scale.

YEAR OF IMPACT INITIATIVES

- **Training & Capacity Building:** Dedicated workshops to optimize field operations, refine market strategies, and enhance investor communication, including tailored business development sessions and executive mentorship provided through a partnership with **YPO**.
- **Demonstration Projects:** Partnerships to showcase how these biodiversity tools can accelerate the creation of new protected areas and strengthen existing ones.
- **Biodiversity Impact Partnership:** The Centre for Nature-based Climate Solutions at the National University of Singapore is [piloting up to three advanced technologies from the XPRIZE Rainforest competition](#), bringing cutting-edge conservation science to Southeast Asia's rainforests and training the next generation of researchers.
- **Global Showcases:** Teams will have an amplified presence at [Brazil Climate Investment Week](#), [Climate Week NYC](#), COP30, and other international stages, boosting awareness and support for crucial rainforest tech.

XPRIZE Rainforest winners and finalists remain fully integrated in XPRIZE's broader innovation ecosystem, receiving mentorship, investor matchmaking, and resource-sharing to translate prototypes into widespread solutions.

GET INVOLVED: A CALL TO ACTION

The XPRIZE Alumni Network stands at the intersection of **innovative research, strategic partnerships**, and **real-world implementation**. In 2024, alumni achievements in alt protein, carbon capture, and biodiversity monitoring showcased how competition-born ideas can mature into commercially viable and societally transformative solutions. By enabling knowledge-sharing, investor support, and cross-sector collaborations, the Alumni Network acts as a multiplying factor on each team's potential.

As an investor, partner, or prospective ally, you hold the power to open new doors for these alumni. Let's unite capital, market channels, and policy support, so each solution can transcend the lab or pilot stage to reach the people and places that need it most.

Interested? We encourage you to:

- **Reach out to** alumni@xprize.org for curated introductions to the teams that match your mission.
- **Partner** with us to co-host events or provide value-aligned offerings—from regional workshops and pilot sites to tools, platforms, or advisory services that empower alumni teams. Reach out to partnerships@xprize.org to explore collaboration opportunities.
- **Mentor** early-stage teams, particularly those from underrepresented groups, ensuring the next wave of innovators thrives.
- **Invest** in cutting-edge technologies and scalable solutions developed by XPRIZE alumni—helping bring bold ideas to market and drive measurable impact.

Your involvement can be a catalyst for countless breakthroughs. Together, we'll continue propelling XPRIZE alumni beyond the finish line, onto the grand stage where real-world transformation happens.

The XPRIZE Alumni Network is a testament to what's possible when bold thinkers and dedicated teams are empowered with the right resources and connections. Thank you to every alumnus, partner, and supporter who contributed to this year's successes. Let's continue to build a future where innovation knows no bounds.




APPENDIX: ALUMNI KEY WINS & RECOGNITIONS

This curated selection of 2024 awards, investments, and partnerships earned by XPRIZE alumni demonstrates cross-sector impact and represents just a portion of their accomplishments.




1871 INDUSTRY DISRUPTER AWARD

 **Aqua Cultured Foods** (XPRIZE Feed the Next Billion) recognized for revolutionizing the food-tech industry through innovative fermentation-based fish-free seafood, significantly reducing ocean pollution and supporting healthier marine ecosystems.



COMMUNICATION FOR TRANSITION SPECIAL PRIZE, ABERJE AWARDS


 **ETH BiodivX** (XPRIZE Rainforest) alumna Kamila Camilo was recognized for outstanding communication strategies that drive awareness and engagement in biodiversity conservation.



Kiloton Fund Selections


AIRMINERS 

AIRMINERS KILOTON FUND CARBON REMOVAL INVESTMENTS

 **BIOSORRA**, **Airhive**, **Octavia Carbon**, and **Takachar** (XPRIZE Carbon Removal) selected by AirMiners and Shopify for innovative carbon removal solutions. Each team received investments and a \$100K carbon credit purchase from Shopify. This pioneering funding approach helps scale critical early-stage technologies for direct air capture, biochar, and enhanced rock weathering, accelerating their path to commercial impact.




AMAZON WEB SERVICES (AWS) HEALTH EQUITY INITIATIVE

 **Labfront** (Qualcomm Tricorder XPRIZE) selected by AWS for a major initiative aimed at advancing global health equity, Labfront received computing credits and technical expertise to enhance their wearable-device data analysis platform. This support accelerates the accessibility and inclusivity of health research, addressing disparities and enabling researchers globally to improve health outcomes.




GOLD STEVIE AWARD, AMERICAN BUSINESS AWARDS & API WORLD AWARD

 **Netradyne** (IBM Watson AI XPRIZE) recognized with a Gold Stevie Award for their Driver.i One system enhancing fleet safety and the API World Best Automotive API Award for innovative Vehicle Data as a Service, improving automotive data integration and fleet management efficiency.




ANTARES REACH BOOST CAMP PROGRAM GRANT

 **AUGenomics** (XPRIZE Rapid Covid Testing) selected from 150 businesses for the prestigious [Antares REACH Boost Camp](#), securing grant funding and expert mentorship.




BEZOS
EARTH
FUND

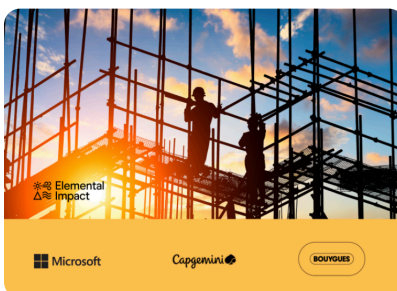
BEZOS EARTH FUND \$1M GREENHOUSE GAS REMOVAL IDEATION PRIZE

 **Mati Carbon, Silicate Carbon, UNDO Carbon, Skyrenu Technologies, Applied Carbon, and BIOSORRA** (XPRIZE Carbon Removal) recognized for pioneering carbon removal technologies that offer scalable and impactful climate solutions critical for global decarbonization.




BILL & MELINDA GATES FOUNDATION GRANT

 **Owlstone Medical** (Nokia Sensing XCHALLENGE) [awarded \\$6.5 million](#) to advance breath-based diagnostics for infectious diseases such as tuberculosis and HIV. This funding supports the development of non-invasive, low-cost diagnostic tools that could transform disease detection, particularly in low-resource settings, and accelerate global health equity initiatives.



BUILD BETTER INNOVATION CHALLENGE

 **Carbon Upcycling Technologies** (NRG COSIA Carbon XPRIZE) awarded by Elemental Impact, Microsoft, Capgemini, and Bouygues for developing innovative solutions that significantly reduce emissions from essential construction materials. This recognition highlights Carbon Upcycling's critical role in addressing the industry's scale-up gap through corporate partnerships and funded pilot projects.

ELEVATE



CANADA'S NEXT SUSTAINABLE CHANGEMAKER CHALLENGE (2ND PLACE)

🍁 **CERT Systems** (NRG COSIA Carbon XPRIZE) awarded \$10,000 for their impactful innovation driving sustainable change within Canada's envirotech sector.



CANNES WORLD FILM FESTIVAL 2024 BEST ORIGINAL SONG & BEST COMPOSER OF THE FUTURE

🎵 **Mercury Orbit Music** (IBM Watson AI XPRIZE) alumna Yang Zhang was honored with two awards: Best Song for "Lost Time Remains" and Best Composer of the Future for "A Scent Of Time Ash (Trumpet Version)." These works continue Mercury Orbit Music's legacy of integrating AI technology in music and shaping the future of creative expression in media.



EMERGING MANUFACTURER AWARD, MANUFACTURER'S EDGE & THE COLORADO ADVANCED MANUFACTURING ASSOCIATION

🍔 **Meati Foods** (XPRIZE Feed the Next Billion) highlighted for transforming food production through sustainable mycelium-based protein, leading the way in alternative protein innovation.



50 BY 2050 LIST, CONGRUENT VENTURES

🌍 **CarbonCure** (NRG COSIA Carbon XPRIZE, XPRIZE Carbon Removal), **Applied Carbon**, **Charm Industrial**, **Lithos Carbon** (XPRIZE Carbon Removal); **Muon Space** (XPRIZE Wildfire); and **Meati Foods** (XPRIZE Feed the Next Billion) selected for their strong potential to drive substantial long-term impacts on carbon reduction over the next 25 years.



FORBES 30 UNDER 30 ALL-STAR ALUMNI

★ **Carbon Upcycling Technologies** (NRG COSIA Carbon XPRIZE) CEO Apoorv Sinha recognized for exceptional leadership driving innovative and sustainable solutions in energy and greentech.



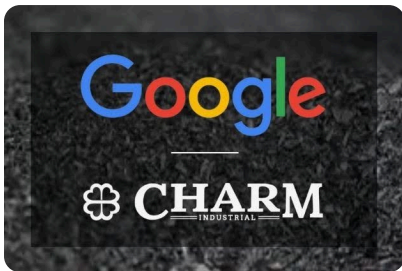
STARTUP OF THE YEAR, GEOSPATIAL WORLD FORUM

🌿 **Re-Forest-Er** (XPRIZE Rainforest) honored for outstanding innovation leveraging geospatial technology for global biodiversity and conservation efforts.



CONTINENTAL WINNER FOR BEST GREENTECH, GLOBAL STARTUP AWARDS AFRICA

🌿 **Octavia Carbon** (XPRIZE Carbon Removal) positioned prominently as a leading innovator in green technology, promoting scalable climate action within Africa.



100,000-TON CARBON REMOVAL DEAL WITH GOOGLE

🔥 **Charm Industrial** (XPRIZE Carbon Removal) inked a [100,000-ton carbon removal deal with Google](#), marking Charm's first commercial-scale biochar-based sequestration project. Their forest biomass-to-bio-oil and biochar approach removes CO₂ while improving soil health and wildfire prevention. This agreement expands Charm's portfolio of permanent, scalable carbon removal solutions, validating biochar as a crucial tool in the fight against climate change.

H HOLOCENE



\$100 PER TON CARBON REMOVAL DEAL WITH GOOGLE

🌱 **Holocene Climate** (XPRIZE Carbon Removal) [secured a landmark agreement with Google](#) at an unprecedented \$100 per ton price, validating the commercial viability of innovative direct air capture technology and significantly accelerating market readiness for scalable carbon removal solutions.



\$6M INVESTMENT FROM INTER IKEA

🌱 [Inter IKEA invested](#) in **New School Foods** (XPRIZE Feed the Next Billion) to support the company's new 28,000 sq. ft. pilot production facility in Toronto and the upcoming launch of its whole-cut plant-based salmon in U.S. and Canadian restaurants. IKEA, a leader in plant-based food innovation, sees this as a step toward expanding sustainable seafood options globally.



KEELING CURVE PRIZE

🌱 **BIOSORRA** (XPRIZE Carbon Removal) awarded for addressing land degradation by providing organic biochar fertilizer and sustainable agricultural training to farmers in Kenya. This recognition highlights BIOSORRA's crucial role in improving soil health, enhancing food security, and driving carbon sequestration solutions in vulnerable agricultural communities.



META CEMENT-FREE CONCRETE COLLABORATION

🔨 **CarbiCrete** (NRG COSIA Carbon XPRIZE) secured a [carbon financing collaboration with Meta](#) to expand deployment of its cement-free concrete, enabling production partners in Canada to replace traditional cement with a carbon-negative alternative that permanently stores CO₂.



LARGEST MARINE CARBON REMOVAL DEAL

🌊 **Ebb Carbon** (XPRIZE Carbon Removal) secured the [largest marine carbon dioxide removal deal to date](#) with Microsoft, committing to remove up to 350,000 tons of CO₂ over the next decade using ocean alkalinity enhancement.



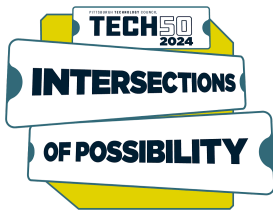
MICROSOFT MULTI-YEAR CARBON REMOVAL AGREEMENT

🚚 **Lithos Carbon** (XPRIZE Carbon Removal) signed a [three-year agreement with Microsoft](#) to deliver over 11,400 metric tons of permanent CO₂ removal using enhanced rock weathering. By deploying finely crushed basalt rock dust on farmland, Lithos locks carbon away for thousands of years while enriching soil health.



MICROSOFT PARTNERSHIP FOR ENHANCED ROCK WEATHERING

🪨 **UNDO Carbon** (XPRIZE Carbon Removal) [signed a major deal with Microsoft](#) to remove 15,000 tons of CO₂ by spreading 65,000 tons of crushed silicate rock across Canada and the UK. This collaboration funds critical scientific research and expands enhanced weathering as a scalable carbon removal strategy.



PITTSBURGH TECHNOLOGY COUNCIL & FORTYX80 AWARDS

🏆 **Astrobotic** (Google Lunar XPRIZE), **Behavior**, and **Marinus Analytics** (IBM Watson AI XPRIZE) honored for technological innovations impacting diverse sectors including space exploration and AI.



POPULAR SCIENCE 50 GREATEST INNOVATIONS OF 2024

🏆 **Applied Carbon** (XPRIZE Carbon Removal) honored for developing an innovative, mobile biochar technology that converts agricultural waste into durable carbon removal onsite, dramatically scaling carbon sequestration potential and reducing associated emissions.



SMART FACTORY AWARD, ROBOTICS & AUTOMATION AWARDS & THE EUROPAS TOP 100 HOTTEST STARTUPS

⚙️ **BOW** (formerly Cyberselves, ANA Avatar XPRIZE) Recognized for groundbreaking avatar technology innovations, highlighting market potential and industry impact.



MULTI-MILLION-DOLLAR SPACE FORCE CONTRACT

🌌 **Muon Space** (XPRIZE Wildfire) [awarded a Phase II SBIR contract by SpaceWERX](#) through Space Systems Command to develop advanced multispectral electro-optical/infrared instruments, advancing environmental monitoring capabilities critical for global wildfire detection, cloud characterization, and real-time weather imaging for defense and civilian applications.



TIME100 CLIMATE LIST & FORBES SUSTAINABILITY LEADER

🏗️ **CarbonBuilt** (NRG COSIA Carbon XPRIZE) Founder Gaurav Sant recognized for influential leadership in sustainable construction and climate action.



TIME100 NEXT

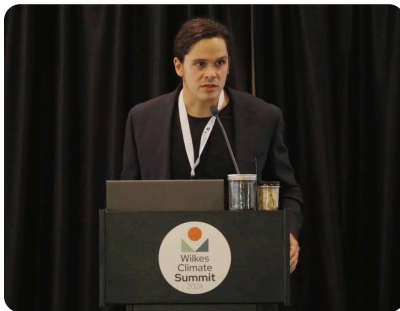
🌱 **Boomitra** (XPRIZE Carbon Removal) Founder Aadith Moorthy recognized on the TIME100 Next list for advancing global climate equity. Boomitra's platform has enabled farmers to sequester over 10 million metric tons of CO₂, distributing revenue from carbon credits to marginalized communities. The honor celebrates Aadith's bold leadership and Boomitra's global impact.



U.S. DEPARTMENT
of **ENERGY**

U.S. DEPARTMENT OF ENERGY **\$58M CARBON NEGATIVE SHOT**

⚡ **Silicate Carbon**, **Lithos Carbon**, and **Carba** (XPRIZE Carbon Removal) selected for advancing essential carbon-negative technologies aligned with ambitious climate targets.



\$500,000 WILKES CLIMATE LAUNCH PRIZE WINNER

🏆 **Applied Carbon** (XPRIZE Carbon Removal) Awarded by the Wilkes Center for Climate Science & Policy for innovative mobile biochar farm robots that transform agricultural waste into carbon-sequestering biochar directly onsite. This significant prize bridges critical early-stage funding gaps, enabling rapid scaling and commercialization of their impactful carbon removal solution.



WORLD ECONOMIC FORUM **2024 TECHNOLOGY PIONEERS**

🌐 **Carbon Upcycling Technologies** (NRG COSIA Carbon XPRIZE), **Captura** (XPRIZE Carbon Removal), and **Re-Forest-Er** (XPRIZE Rainforest) recognized as leading global innovators, making transformative impacts on climate and biodiversity conservation.



YALE FACULTY INNOVATION AWARD

🌍 **Map of Life Rapid Assessments** (XPRIZE Rainforest) [team lead Walter Jetz awarded](#) for advancing critical biodiversity conservation methodologies through pioneering academic research.



**PRIZE
ALUMNI**