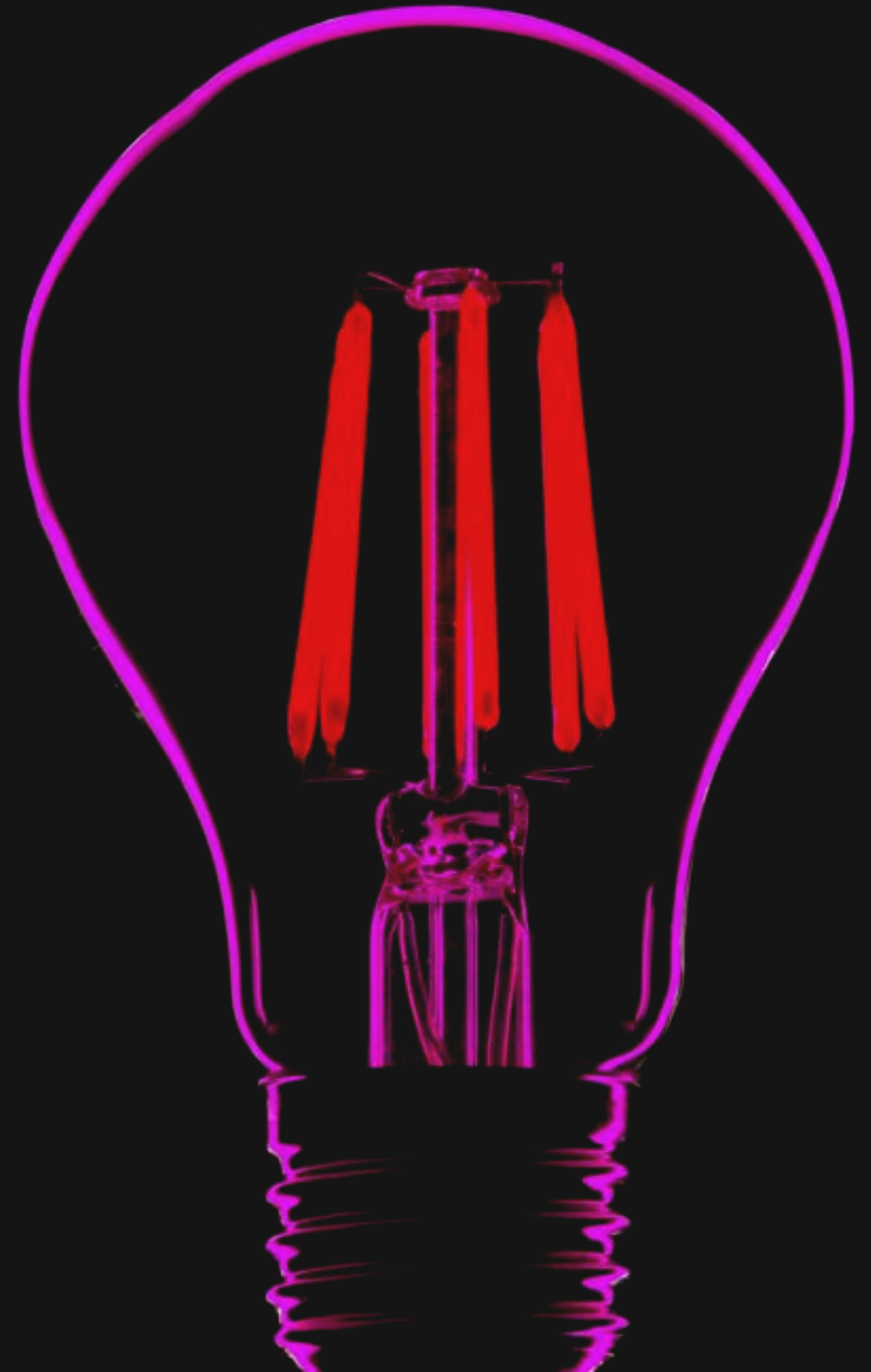




ANNUAL REPORT 2021





# TABLE OF CONTENTS

<b>LETTER FROM THE CEO</b>	03
<b>WHO WE ARE</b>	04
<b>OUR HISTORY</b>	06
<b>IMPACT</b>	08
<b>A NEW ERA</b>	12
<b>FINANCIALS</b>	21
<b>OUR TEAM</b>	24
<b>JOIN OUR COMMUNITY</b>	28



## A FUTURE OF POSSIBILITIES



As the CEO of a non-profit, my primary role is to ensure we are clear and aligned on our vision and mission and the best way to accomplish it. XPRIZE is driven by a profound mission, to be the architects of a better, more abundant, more equitable future, and it's my job to keep us relentlessly focused on that mission.

Fortunately, it's a mission I believe in deeply. Perhaps that's because of my childhood obsession with Star Trek, and the inspired, inclusive and cooperative world it depicts. Conflicts arise in this optimistic future, but most often they're growing pains, encountered by societies as they evolve to realize their shared, aligned destiny. Humans in 2022 face a similar challenge: to evolve beyond petty differences and a mindset driven by scarcity and the legacy of past mistakes, to become a species of explorers and learners. That's the future XPRIZE wants to build, and I'm here to help make it happen.

The past two years have tested this vision as never before, with challenges that impacted the entire planet, but also brought us together in unexpected ways. XPRIZE, for its part, found new, more efficient ways of working, and responded to crisis by doing what we do best: convening the world's greatest problem solvers and putting them to work. It's an experience that could have crushed us, but instead it made us stronger, exposing the true depth and resilience of the global network we've spent 27 years building, and reinforcing the commitment of our supporters and stakeholders.

When you build something slowly over time, it's easy to forget how powerful it's become unless you step back and look. A sudden pandemic pushed us to do just that and realize that we'd built a platform able to address immediate problems with the same expertise and innovation we bring to pursuing our long-term vision. The XPRIZE Rapid COVID Testing prize in 2020/21 showed just how powerful that approach can be, and how rapidly our platform can be redirected to solve pressing problems. The pandemic was a clear, dramatic example of a truly global problem, but it's by no means the only one, and XPRIZE is uniquely positioned to help solve problems at this scale, before they strike. So, the past two years have, if anything, inspired us to double down on our original mission, but with a new sense of urgency, and a sharper focus on the vision of the future we're trying to achieve. That's why we've chosen this year to restructure our efforts into a set of Domains, each defining an area of pressing problems or promising technologies (or, in many cases, both).

It's a change that we're all very excited about, and we'll get into the details and motivation behind these seven domains later in this report. When I went into space, it gave me a different perspective, both literally and philosophically. From orbit, there are no dividing lines, no different colored countries, no borders. There's only one planet, and a thin line of atmosphere allowing for all of life to exist. It's a humbling realization but also one that makes clear our interconnectedness to each other and to our environment and the importance of focusing on the challenges that face us all. That requires global collaboration. Our power of convening and creating collaborative platform is one of the true strengths of XPRIZE that I take special pride in. We surround ourselves with people who have that same expansive and hopeful view. Not everyone has been to space of course, but it's that perspective which counts. And that's why collaboration becomes very important, because when you look at big problems and big solutions, you know that you can't do it by yourself. You need to be working with people with diverse backgrounds, diverse resources, diverse experiences. Then you need to bring it all together, and XPRIZE often acts as the thread that stitches these different entities together into coherent outcomes.

We have even greater challenges ahead of us. We face an unpredictable world, of increasing complexity and an accelerating pace of change. But beyond our universal problems, we also share an incredibly powerful tool: the human imagination. The more we imagine, the more powerful this tool gets, and I firmly believe that all of humanity's problems are solvable if we can get the world to imagine a shared future where everyone benefits and that we can build together.

Anousheh Ansari | CEO, XPRIZE



WHO WE ARE

RADICAL  
IDEAS

BREAKTHROUGH  
INVENTIONS

GLOBAL  
EXPERTISE

BOLD  
INNOVATORS



# WHAT IS XPRIZE?

**The challenges that humanity faces are becoming more complex and more consequential every day, and thoughtful innovation is how we'll solve them.**

The XPRIZE Foundation is a 501(c)(3) nonprofit, focused on incentivizing the breakthroughs that address humanity's most critical challenges. XPRIZE plays a powerful role in driving those breakthroughs, using large-incentive prize competitions to catalyze solutions that might not otherwise reach fruition. That approach, and our expertise at designing and running high-impact competitions, is what sets XPRIZE apart.

**XPRIZE competitions reward performance, not potential.** So instead of just celebrating great ideas, we recognize innovators who follow through on their vision to create tangible solutions, validated through extensive testing and judging. This approach empowers teams to create bold, transformative solutions that can scale and drive real impact. Our broad marketing and media capabilities help ensure those solutions get the attention they deserve.

**Incentives that transform industries.** Since its founding in 1994, the XPRIZE Foundation has become a globally recognized brand, with competitions that capture the world's imagination and a reputation for successfully executing complex competitions creating real world solutions.

Often, these incentives address market failures that prevent innovation, and in some cases even help launch new industries. Our first ever prize, the \$10M Ansari XPRIZE for sub-orbital spaceflight, helped catalyze the \$100B+ commercial space industry—an exceptional return on philanthropic investment.

Since then, we've launched 24 more competitions in seven domains, newly restructured to reflect our deliberate focus on achieving a more abundant, equitable world by 2045.

The innovations catalyzed by these subsequent competitions have gone on to spark new technologies, new businesses, and new social movements, which create greater positive impact on people's lives with each passing year.



# OUR MISSION

»» As the world faces overwhelming challenges, the XPRIZE Foundation continues to build a vision of hope and abundance for humanity’s future, by harnessing the power of technology and the innovators who employ it for the benefit of all. So it’s our mission to inspire and empower those innovators, and grow the global community of problem-solvers—because we believe that solutions to the world’s problems can come from anywhere, not just a lab in a prestigious university or tech company.

We also believe that those problems are solvable; that a world where everyone has access to clean water, nutritious food, affordable housing, effective learning, top-tier medical care and inexpensive, clean energy isn’t just possible, but within reach.

## 01 TO CLEARLY ENVISION

a preferred, scientifically valid and hopeful future for humanity — what we refer to as “a future of abundance for all.”

## 02 TO DESIGN A ROADMAP

towards that abundant future, and identify the breakthroughs that will enable humanity to accelerate toward that future.

## 03 TO FUND, LAUNCH & OPERATE

incentive competitions that focus the resources, talent and technology required to achieve those breakthroughs.

## 04 TO DRIVE IMPACT

toward that preferred, scientifically valid, hopeful vision for humanity.





# THE STORY THAT INSPIRED US

The idea of using a competition to catalyze investment and technological innovation certainly didn't start with XPRIZE. In 1919, a French-American hotelier named Raymond Orteig offered \$25,000 to the first person to fly non-stop from New York City to Paris or vice versa. In 1927, a relatively unknown American aviator named Charles Lindbergh won the prize in his custom-built aircraft, the Spirit of St. Louis. The feat grabbed headlines around the world, sparking public interest and driving massive investment in the development of aviation technology.

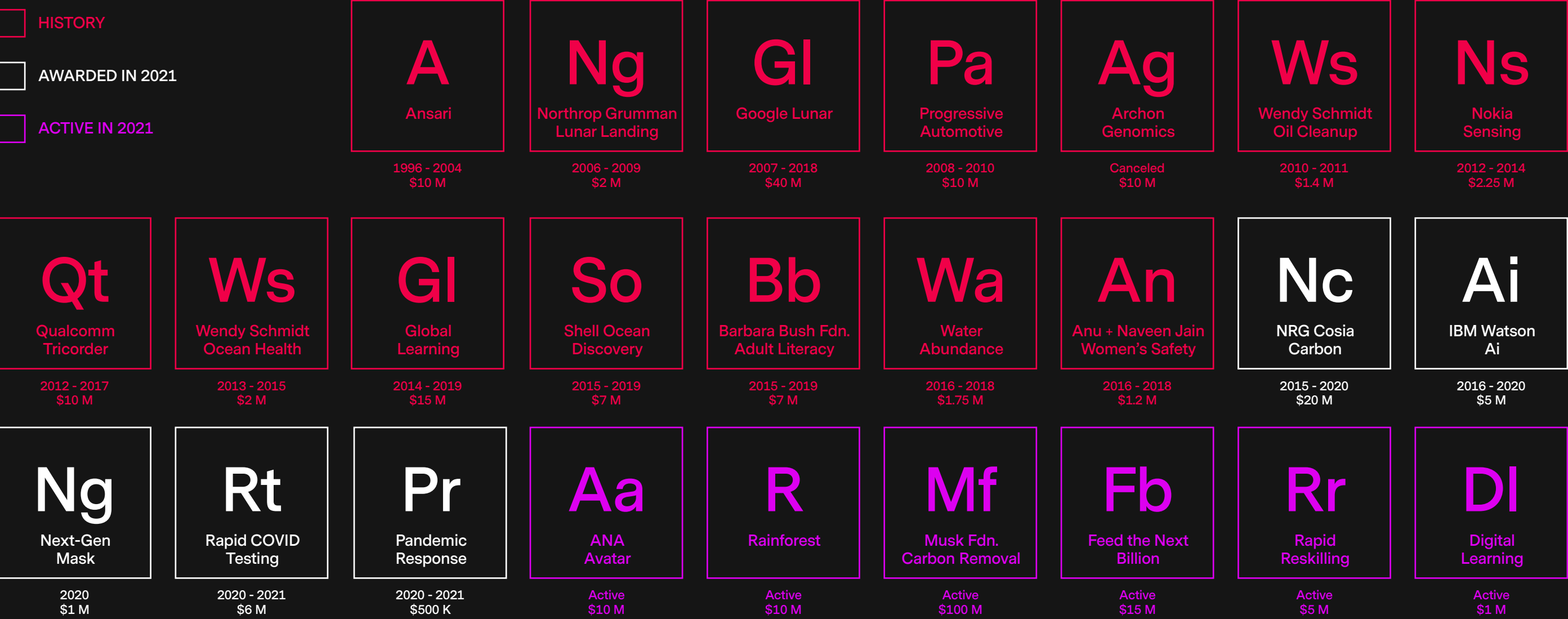
# ANSARI XPRIZE

In 1996, an updated version of Orteig's prize was proposed, this time to reward the private development of a crewed spacecraft able to launch into space twice within two weeks. Later renamed the Ansari XPRIZE, the \$10M prize was won in 2004, capturing public attention and sparking innovation in much the same way as its 1927 predecessor. It also led to more than \$100M of investment by competing teams, with the winning technology being acquired by Sir Richard Branson to form Virgin Galactic, now a public company with a multi-billion dollar market cap.



# INNOVATION IN ACTION

The Ansari XPRIZE set a pattern that’s stayed consistent ever since. XPRIZE competitions typically result in **10x or greater return on philanthropic dollars** through investment in and by teams, and similar returns through partnerships. To date, more than \$99M in prize awards have driven more than \$2B of investment. In **2020 and 2021**, we launched **four new competitions**, announced winners in three, and completed testing and operational phases for three more.





# AN ECOSYSTEM OF INVESTMENT

Through its incentivised competitions, XPRIZE provides a unique ecosystem of investment. Our prizes accelerate and drive the innovation engine that is powering us toward a future of abundance for all.

**\$293M+**

CUMULATIVE PRIZE PURSES

**\$200M+**

VALUE OF PRIZE PURSES CURRENTLY IN DEVELOPMENT

**\$99M+**

AWARDED PRIZES

**\$2B+**

INVESTED IN & BY COMPETING TEAMS

**25**

PRIZES LAUNCHED

**18**

AWARDED PRIZES

**6**

ACTIVE PRIZES



# GROUNDBREAKING IMPACT

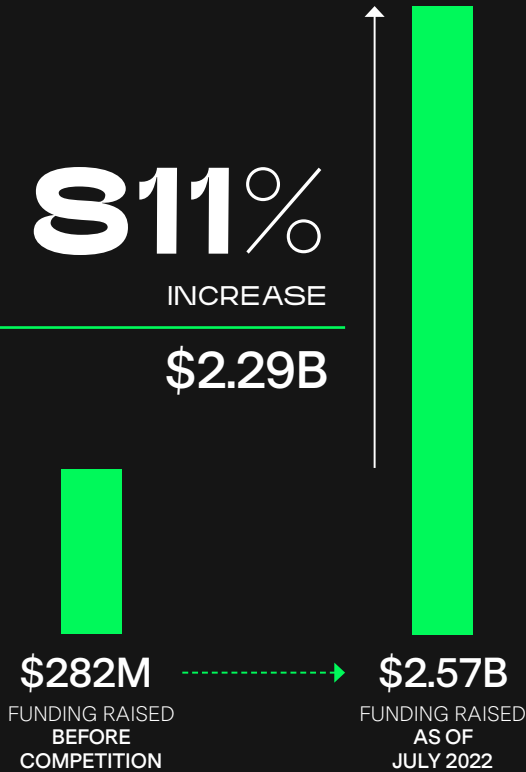
In addition to investment during the life of the prize, involvement with XPRIZE has a long-term impact on emerging innovation, helping to drive financial support long after a prize purse has been awarded. In fact, prize-winning innovators see a significant ROI on their prize purse, reflecting that innovators are continuing to develop, grow, and prosper, beyond the competition.

## XPRIZE AS A FUNDING CATALYST

We have verified, 3rd party funding data on 52 teams (out of 400 alumni teams) from past competitions who had cumulatively raised \$282M at the time of entering the competition.

Today these teams have raised \$2.57B dollars today, or an increase of \$2.29B.

**THAT'S AN 8X INCREASE IN FUNDING DURING OR AFTER THE COMPETITION.**



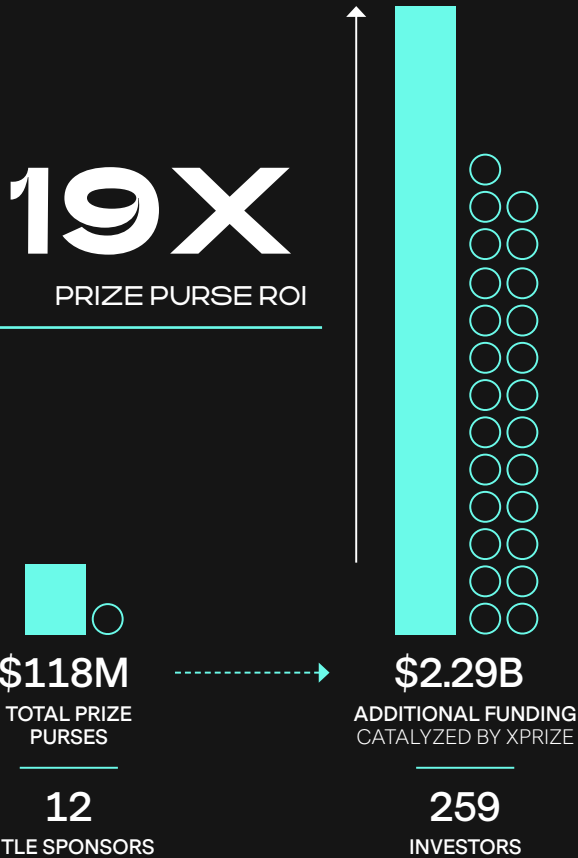
FUNDING

## PRIZE PURSE ROI

Those same 52 teams were competing for \$118M in prize purse money across 12 competitions

Put another way, those \$118M of prize purse catalyzed an additional \$2.29B of investment

**THAT'S A PRIZE PURSE ROI OF GREATER THAN 19X**



FUNDING

12 CAPITAL PROVIDERS

# GROUNDBREAKING IMPACT

Beyond innovator investment, the XPRIZE alumni of innovators have made world-changing advances that continue to have a lasting, positive impact on people, industries, and policy. These highlights from XPRIZE competitor teams that continue to commercialize and scale their technology, directly underscore our mission; to catalyze innovation and accelerate a more hopeful future by incentivizing radical breakthroughs for the benefit of humanity.

6M

children have been reached by the Kit Kit School, the **Global Learning XPRIZE** winning team.

## BEYOND THE NUMBERS

Produced some of the first randomized controlled trials of an app-based learning software in the developing world, including impact of socio-emotional environment on learning.



affordable COVID tests delivered by **XPRIZE Rapid COVID Testing** winning teams as of May 2022.

## BEYOND THE NUMBERS

Provided regulatory and IRB support leading to the first ever CE-mark for terahertz spectrometer based diagnostics.

\$250M

received in presales for the world's most efficient, completely solar powered vehicle developed by **Progressive Automotive XPRIZE** finalist team Aptera.

## BEYOND THE NUMBERS

Created the metric of Miles Per Gallon Equivalent (MPGe).

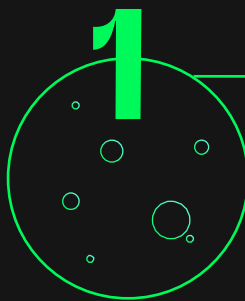


300M

gallons of net-zero aviation fuel will be purchased by United Airlines from **NRG COSIA Carbon XPRIZE** finalist team Dimensional Energy by 2050.

## BEYOND THE NUMBERS

Catalyzed the state of Wyoming and province of Alberta to spend nearly \$50M in state-of-the-art test centers for carbon capture. These centers have in turn produced at least \$100M in further R&D efforts.



landing. Designed by Space IL, winner of the **Google Lunar XPRIZE**, this was the first private (non-government) spacecraft to do so.

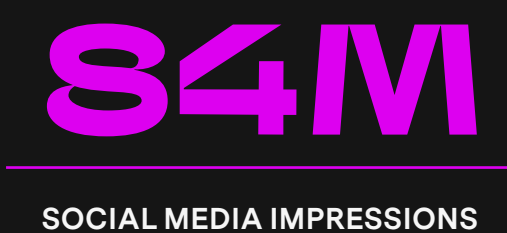
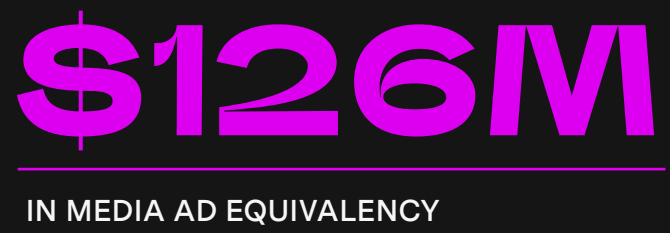
## BEYOND THE NUMBERS

Activated a "Moonbots" education program, inspiring over 4,000 children in 40 countries to discover or deepen their love of STEM.



# » DRIVING GLOBAL CONVERSATION

In 2021 XPRIZE exceeded our media impact and reach goals, engaging global audiences and influential media outlets with innovation-led stories that sparked curiosity and drove brand awareness to unprecedented levels.



A NEW ERA

# IMAGINE AN ABUNDANT FUTURE FOR ALL



# THE FUTURE IN FOCUS

XPRIIZE has spent over two decades inspiring and rewarding breakthroughs. As we move into our third decade, we seek to increase our impact by focusing on a specific vision of humanity’s future. That’s why we’re focusing our efforts on accelerating the arrival of an abundant, equitable future. We envision a world where all of humankind’s basic needs are met by 2045, with universal access to clean water, nutritious food, affordable housing, effective learning, top-tier medical care, and plentiful, inexpensive, non-polluting energy.

We call this world ABUNDANCE FOR ALL. It’s a hyper-connected, resilient world that leverages the best of technology while living in balance with nature. A world of infinite possibilities where we live fearlessly and creatively; where the true power of human imagination is unleashed, and humanity’s interplanetary future is a source of hope for all.

To achieve this audacious goal, we need to focus on the innovations that will make this imagined future a reality. That gives us a new primary task: to determine which specific breakthroughs are needed, and how to achieve them, through incentives, rigor, and follow-through.

To that end, we’ve reorganized the Foundation into seven category Domains, which will help focus our efforts and amplify our expertise, in pursuit of an abundant future.

These domains are:

- Climate + Energy
- Biodiversity + Conservation
- Learning + Society
- Food + Waste + Water
- Space + Exploration
- Deep Tech + Quantum
- Health

Our next step is a fundraising effort, kicking off in Q4 2022, designed to support the work of these domains in a comprehensive manner. Time is precious, and we can’t afford to waste it by fundraising for each prize individually. Instead, we’re creating a financial runway that will allow us to launch multiple prizes within each domain, along with tools and content to create awareness and educate the public.

## GUIDING PRINCIPLES

### 01 WITHOUT A TARGET YOU’LL MISS EVERY TIME

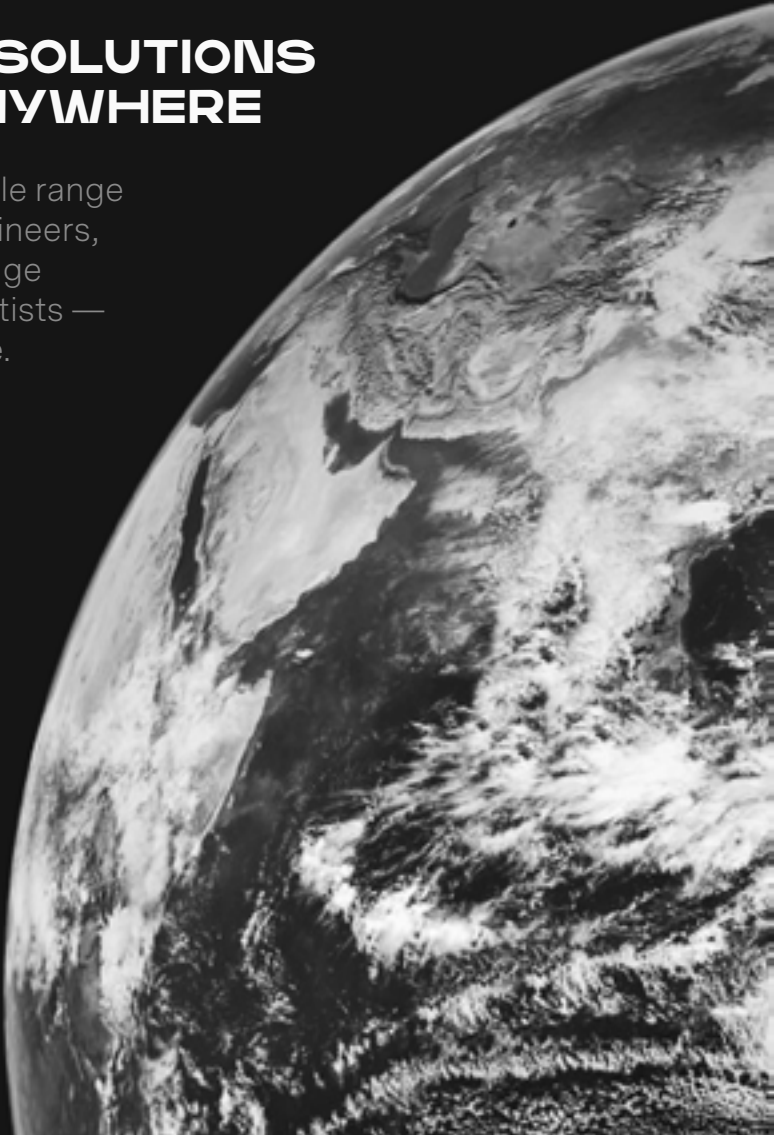
XPRIIZE competitions have clear goals that can be objectively measured.

### 02 WORLD-CHANGING SOLUTIONS CAN COME FROM ANYWHERE

XPRIIZE taps into the greatest possible range of human cognitive capital, from engineers, scientists, and entrepreneurs to garage tinkerers, students, and citizen scientists — anyone who’s passionate is welcome.

### 03 EVERY ONE OF US HAS THE POWER TO MAKE A DIFFERENCE

A passionate and persistent mind can solve any problem, so XPRIIZE fosters and sustains the communities that support those minds, empowering them to do good.





A NEW ERA

CLEAN ENERGY  
SYSTEMS

ENERGY ACCESS  
FOR ALL

CLIMATE  
INTERVENTIONS

CLIMATE  
ADAPTATION

# CLIMATE + ENERGY

Envision a time when clean, reliable, and sustainable energy is accessible and affordable for everyone. A time in which we are firmly on the path to restoring safe balance to Earth’s climate system and where redesigned energy systems, restored ecosystems, and a circular economy are a reality.

In this world, economic development is decoupled from environmental degradation, unlocking a radical new future in which human prosperity and well-being are enhanced by climate justice and restoration of the natural environment, not in competition with these goals.

XPRIZE is accelerating the arrival of this future by growing a community of innovators intent on finding and deploying positive solutions that address current and future challenges in energy and climate solutions. Incentive prizes can drive the creation of breakthrough innovations that can pull this future forward, increasing quality of life, and ending the existential climate change threat facing us all. This is a future of both a stable climate, and clean, sustainable energy for all. It is a future we urgently need, and one that we all deserve.

### AWARDED + ACTIVE PRIZES

NRG | COSIA CARBON XPRIZE

PRIZE PURSE: \$20 MILLION

PHASE: AWARDED

**OVERVIEW:** The NRG COSIA Carbon XPRIZE sparked the development and creation of breakthrough technologies to convert CO<sub>2</sub> emissions into scalable, usable products to help fight climate change.

XPRIZE CARBON REMOVAL

PRIZE PURSE: \$100 MILLION

PHASE: REGISTRATION

**OVERVIEW:** The largest incentive prize in history features the largest collection of innovators competing to solve humanity’s biggest problem - fighting climate change and rebalancing Earth’s carbon cycle.

### WHAT'S NEXT?

IEEE ENERGIZING THE FUTURE

PRIZE PURSE: \$25 MILLION

PHASE: FUNDING

**OVERVIEW:** Challenging teams of innovators to demonstrate energy carrier lifecycles by developing carriers and systems that can store and transfer energy harvested from clean, renewable sources and use it to power multiple, real-world functions.



➤➤ **SUSTAINABLE  
NUTRITIOUS FOOD  
SYSTEMS**

➤➤ **RESILIENT  
FOOD & WATER  
MANAGEMENT  
SYSTEMS**

➤➤ **TRANSPARENT  
& FAIR SUPPLY  
CHAIN**

➤➤ **SMART  
ECOSYSTEM  
LIFECYCLE  
MANAGEMENT  
SYSTEMS**

# FOOD + WASTE + WATER

**Imagine a time when people everywhere have safe access to clean water, sanitation, and hygiene.** Everyone can consume healthy, nutritious foods that are affordable, sufficient, and diverse. Excessive food waste is a thing of the past, as are the heaps of plastic and packaging waste.

Innovative technologies, processes, and policies allow us to transition our food system to focus on nutritional quality and regenerative farming. We embrace circular economies that capture and reuse limited resources and prioritize the invention of novel materials.

Farms are empowered and incentivized to grow healthier, more productive crops. Transparent, inclusive food systems improve the livelihoods and quality of life of workers, providing fair economic opportunities for all, helping small and medium enterprises thrive.

In this future, food and water management systems regenerate environmental systems, and ensure resilience in the face of climate change. These systems address soil degradation and erosion, reduce water depletion and pollution, reverse biodiversity loss, decrease greenhouse gas emissions, and radically reduce food and packaging waste.

XPRIZE is a catalyst to making this vision a reality. By fostering cross-disciplinary collaborations, envisioning breakthroughs, and launching audacious prize incentives, the development of innovations that will ultimately provide solutions to the grand food and water systems challenges we face today will be accelerated, paving the way to a vastly improved food and water systems for all.

**AWARDED + ACTIVE PRIZES**

**WATER ABUNDANCE XPRIZE**

**PRIZE PURSE:** \$1 MILLION

**PHASE:** AWARDED

**OVERVIEW:** Over 780M people across the world are facing water scarcity due to lack of availability, uneven distribution and access. The Water Abundance XPRIZE challenged teams to alleviate the global water crisis with energy-efficient technologies that harvest fresh water from thin air.

**XPRIZE FEED THE NEXT BILLION**

**PRIZE PURSE:** \$15 MILLION

**PHASE:** SEMIFINALS

**OVERVIEW:** XPRIZE Feed the Next Billion incentivizes teams to produce chicken breast or fish filet alternatives that replicate or outperform conventional chicken and fish in: access, environmental sustainability, animal welfare, nutrition, as well as taste and texture.



A NEW ERA

GLOBAL ACCESS  
TO QUALITY  
EDUCATION

TECHNOLOGY  
ENABLED  
SYSTEMS  
INTEGRATION

INTEROPERABLE  
DATA SYSTEMS

EQUITY-CENTERED  
DESIGN

# LEARNING + SOCIETY

In 2045, an abundant future is within reach. Regardless of income, race, age, identity, gender, or geography, each person has access to learning experiences that radically empower them and are designed and curated to reflect their unique capabilities, disposition, and aspirations.

Universal internet access makes learning more on-demand, immersive, hands-on, globally accessible and locally relevant. Education is no longer something that only happens in a building during prescribed hours. Instead, it is a series of immersive, seamless, community-embedded experiences integrated into individual life-long learning pathways that connect with careers, societal impact, and personal enrichment.

The convergence of technologies, social systems, community resources and individual goals will create new platforms that blend life and learning. In this future, learners, employers, and leaders drive equitable social, economic, and civic progress through inclusive structures, human-centered technology, and entrepreneurship.

XPRIZE believes that revolutions in learning systems and how we design for equity are fundamental building blocks for an inclusive and sustainable society. We will reimagine and remake the way we sustainably design, produce, and consume products and services as a global society by cultivating innovators and entrepreneurs in all communities. Incentivized prizes will rapidly advance critical and emerging learning platforms and grow innovation ecosystems for learners and technology entrepreneurs. Together, we can usher in a new era of learning that supports quality, accessible, lifelong learning for all.

## AWARDED + ACTIVE PRIZES

### GLOBAL LEARNING XPRIZE

**PRIZE PURSE:** \$15 MILLION

**PHASE:** AWARDED

**OVERVIEW:** The winning teams developed open-source, scalable software that empowers children to teach themselves basic reading, writing and arithmetic within 15 months.

### XPRIZE RAPID RESKILLING

**PRIZE PURSE:** \$5 MILLION

**PHASE:** IN PROGRESS

**OVERVIEW:** Under-resourced communities in the U.S. face systemic barriers to learning, mobility, and progress. XPRIZE Rapid Reskilling reimagines the entire work process from education to employment, driving solutions to better train and retain employees for the digital revolution.

### ADULT LITERACY XPRIZE

**PRIZE PURSE:** \$7 MILLION

**PHASE:** AWARDED

**OVERVIEW:** Challenged teams to develop mobile applications for existing smart devices that result in the greatest increase in literacy skills among participating adult learners in just 12 months.

### DIGITAL LEARNING CHALLENGE

**PRIZE PURSE:** \$1 MILLION

**PHASE:** IN PROGRESS

**OVERVIEW:** Enables experiments of frequency, scope and scale not possible through traditional methods used in education research or commercial EdTech processes. These experiments will transform our understanding of successful educational processes and result in better experiences and outcomes for all learners.





A NEW ERA

PROTECT LIFE IN  
ALL ITS FORMS

CONSERVING  
PLANET EARTH

RAPIDLY SURVEY  
BIODIVERSITY

SUSTAINABLE  
BIO-ECONOMIES

# BIODIVERSITY + CONSERVATION

**Picture a future where humanity is united in pursuit of a more sustainable world for all life on Earth.** Indigenous Peoples, local communities, governments, NGOs and the private sector work in partnership to measure, monitor and manage biodiversity and its many interconnected relationships. Together, they create revolutionary, tech-supported frameworks to protect life in all its forms, for the benefit of every organism on the planet—humans included.

Land and water are preserved and maintained through just, sustainable management strategies. Combined with bold innovation in conservation technologies, threatened and endangered species and ecosystems rebound from the brink of extinction, and enjoy the connectivity they need to thrive.

In this vision for the future, strong institutions leverage global advances in industry, innovation and infrastructure, and pursue audacious sustainable development goals, driving climate action, diminishing inequality, and uplifting all life on land and in water.

XPRIZE is propelling us toward this vision, accelerating the development of novel technologies to rapidly and comprehensively survey biodiversity, and use that data to improve our understanding of complex ecosystems. This in turn will inspire new investment and exploration in these ecosystems, leading to the development of new, just, and sustainable bio-economies.

## AWARDED + ACTIVE PRIZES

### XPRIZE RAINFOREST

**PRIZE PURSE:** \$10 MILLION

**PHASE:** IN PROGRESS

**OVERVIEW:** XPRIZE Rainforest will accelerate the innovation of autonomous technologies needed for biodiversity assessment and will enhance our understanding of rainforest ecosystems, while working with Indigenous Peoples and Local Communities.

## WHAT'S NEXT?

### XPRIZE WILDFIRE

**PRIZE PURSE:** \$10 MILLION

**PHASE:** FUNDING

**OVERVIEW:** Firefighting hasn't changed in over 100 years. With unprecedented global wildfires in recent years, the time for innovation is now. XPRIZE Wildfire will source teams of innovators from around the globe to develop integrated systems that can autonomously detect, assess and suppress potentially catastrophic wildfires quickly.

### XPRIZE CORAL RESTORATION

**PRIZE PURSE:** \$9 MILLION

**PHASE:** FUNDING

**OVERVIEW:** Coral reefs are dying off at catastrophic rates, threatening entire ecosystems and impacting ocean health on a global scale. XPRIZE Coral Restoration will task competitors with creating technology that can successfully restore the largest area of coral reef in a two-year period, populated with at least 3 different types of corals.

➤➤ PROTECT & REPAIR THE BIOSPHERE

➤➤ ESTABLISH MULTI PLANETARY SOCIETIES

➤➤ HARVEST RESOURCES OF SPACE FOR EARTH

➤➤ PLANETARY DEFENSE SYSTEMS

# SPACE + EXPLORATION

The year is 2045, and humanity looks to the vast abyss of space—not just through the lens of exploration and understanding, but also to learn how to better protect and repair the only known biosphere in the Universe.

In this future, our technological advancement has reduced the cost and improved the safety of traveling beyond Low Earth Orbit, toward the farthest corners of our solar system. We begin to seek out and assess possible alternatives to our planet for colonization, with the goal of securing the long-term survival of humanity. Innovation and new space-based businesses are thriving, and form an essential part of our economy, allowing the energy and material resources of our solar system to be used to protect, sustain and repair the Earth’s biosphere. It is a time when we are no longer limited to earthbound resources, but can harness the vast resources of space, affording a world of abundance for every person on Earth.

This is a time when advances in materials science, robotics, nanotechnology, computing and automation enable us to manufacture and assemble structures, new materials, biological matter and other advanced products in space, for use both on- and off-planet. This reduces the load on our ecosystem, and expands the range of potential products through manufacturing without the burden of gravity. It’s a safer world too, where advanced planetary defense systems protect us against cosmic catastrophes such as asteroid impacts.

XPRIZE is addressing this potential directly, through well-defined, high-incentive prizes that reward the innovations that bring the stars closer, pushing the boundaries of space exploration and propelling us further than we ever imagined possible.

## AWARDED + ACTIVE PRIZES

### ANSARI XPRIZE

**PRIZE PURSE:** \$10 MILLION

**PHASE:** AWARDED

**OVERVIEW:** Designed to lower the risk and cost of going to space by incentivizing the creation of a reliable, reusable, privately financed, crewed spaceship that finally made private space travel commercially viable. With the awarding of this competition, a brand-new \$2 billion private space industry was launched.

### GOOGLE LUNAR XPRIZE

**PRIZE PURSE:** \$30 MILLION

**PHASE:** AWARDED

**OVERVIEW:** Designed to spur affordable access to the moon and give space entrepreneurs a legitimate platform to develop long-term business models around lunar transportation and to inspire the next generation of scientists, engineers, space explorers and adventurers to enter the STEM fields.

## WHAT'S NEXT?

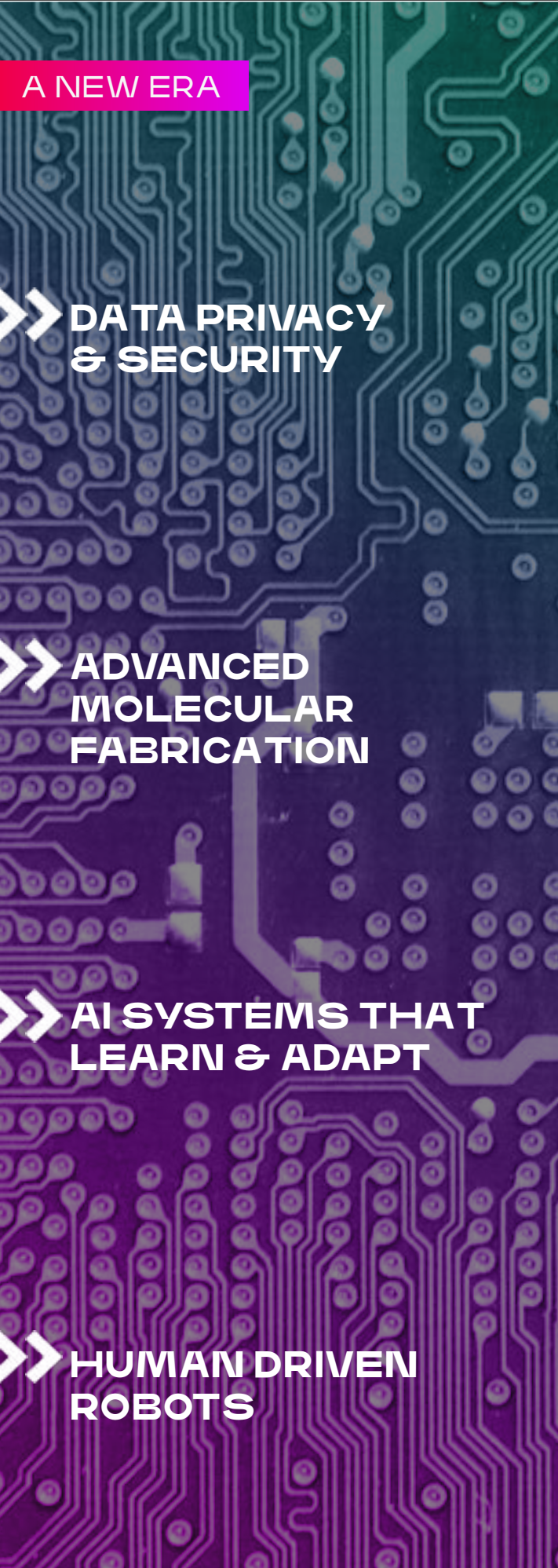
### XPRIZE SPACE DEBRIS

**PRIZE PURSE:** \$50 MILLION

**PHASE:** DESIGN

**OVERVIEW:** Orbital pollution is at a tipping point, threatening space innovation and exploration. XPRIZE Space Debris will challenge innovators to develop solutions that can perform a controlled deorbit of a derelict rocket body or satellite of less than 300kg in low Earth orbit, clearing a path forward to explore our solar system and beyond.





A NEW ERA

DATA PRIVACY  
& SECURITY

ADVANCED  
MOLECULAR  
FABRICATION

AI SYSTEMS THAT  
LEARN & ADAPT

HUMAN DRIVEN  
ROBOTS

# DEEP TECH + QUANTUM

In 2045, we no longer develop technology with the primary goal of advancing a specific nation, corporation, or individual. Instead, we advance technology for the betterment of planet Earth and all its inhabitants. Technological and scientific breakthroughs are broadly accessible. Instantaneous, ubiquitous computing is available to all who need it, regardless of geography. Communication and access to necessary information is free. Data privacy and security is a solved problem, supported by quantum methods that leave bad cyber actors with no field of play.

The world of computing has now moved beyond deep / machine learning systems tuned to excel in narrow problem spaces. Instead, they're replaced by general AI systems that learn and adapt to complex and rapidly changing conditions. These systems are deployed to aid humans in responsibly managing our planet's resources for the benefit of all. Smart, capable robotic systems have replaced human labor in many repetitive, unrewarding jobs, sparking a renaissance of human development that spans creative expression, exploration and philosophy. Human-driven robots handle work considered potentially too dangerous, such as challenging construction problems (undersea, extraplanetary), nuclear power plant operations, and rescue from collapsed structures, floods, fires, and other natural disasters.

A future where advanced intelligence can be applied to nearly any societal problem is a more just, more abundant future, and XPRIZE is actively working to hasten its arrival. The IBM Watson AI XPRIZE is a prime example, incentivizing teams from around the world to develop innovative ways of applying AI to real human problems.

### AWARDED + ACTIVE PRIZES

#### IBM WATSON AI XPRIZE

PRIZE PURSE: \$5 MILLION

PHASE: AWARDED

**OVERVIEW:** Launched in 2015, the IBM Watson AI XPRIZE accelerated adoption of artificial intelligence (AI) technologies and sparked creative, innovative and audacious solutions that are truly scalable to solve societal grand challenges.

#### ANA AVATAR XPRIZE

PRIZE PURSE: \$10 MILLION

PHASE: FINALS

**OVERVIEW:** Human's ability to physically experience or utilize our skills in another location is restricted by the barriers of time and distance. The ANA Avatar XPRIZE aims to create an avatar system that can transport human presence to a remote location in real time.

### WHAT'S NEXT?

#### XPRIZE QUANTUM

PRIZE PURSE: \$20 MILLION

PHASE: FUNDING

**OVERVIEW:** There is no doubt that quantum computing has the potential to radically transform our world, from financial systems to transportation and health care. While private companies have made advances in recent years, XPRIZE Quantum Application for Good would democratize quantum technology so that a future of opportunity can be accessible to all.





A NEW ERA

PRIORITIZED  
PROACTIVE CARE

PREDICT, DETECT,  
PREVENT DISEASE

CROWD-SOURCED  
INSIGHTS

CONVERGENT  
TECHNOLOGIES

# HEALTH

**Imagine a world where everyone has access to high-quality, personalized, precision healthcare.** Where our physical environments support our wellbeing, and social systems serve to uplift the wellness of entire communities. Where anyone can live a long, productive, meaningful life, regardless of where they're from.

In this future, public health unites with global health to form a democratized, interconnected, and globally collaborative care continuum that supports quality of life, healthspan, and mental health for all. Preventive and proactive care takes priority over reactive healthcare, and dynamic new systems are optimized to predict, detect, and prevent disease early, reducing the need for late-stage treatment. New data sources, multi-omics, and crowdsourced insights rapidly expand our medical knowledge of existing and emerging diseases. These advances combine to form robust, effective healthcare systems that respond rapidly to needs anywhere they arise.

XPRIZE is the catalyst that makes this vision a reality. By fostering cross-disciplinary collaboration and providing prize incentives, we're accelerating the development of convergent technologies that improve prevention, diagnostics, therapy, and public health. These innovations are what will bring about the solutions to the grand health challenges of today, and pave the way to vastly improved healthcare and biomedicine for all.

## AWARDED + ACTIVE PRIZES

### XPRIZE RAPID COVID TESTING

**PRIZE PURSE:** \$6 MILLION

**PHASE:** AWARDED

**OVERVIEW:** Develop faster, cheaper, and easier to use COVID-19 testing methods at scale. No more guessing. No more lack of tests. The world needs more high-quality, affordable testing to safely re-open.

### NEXT GEN MASK CHALLENGE

**PRIZE PURSE:** \$1 MILLION

**PHASE:** AWARDED

**OVERVIEW:** Reimagining protective face masks used to prevent the spread of COVID-19 by making them more comfortable, functional, accessible, and even stylish.

## WHAT'S NEXT?

### XPRIZE AGE REVERSAL

**PRIZE PURSE:** \$100 MILLION

**PHASE:** FUNDING

**OVERVIEW:** What if aging was a curable disease? XPRIZE Age Reversal will accelerate the technology able to significantly reverse the aging process, enabling an individual to shift their biological age back to peak performance, resulting in a longer and healthier lifespan.

### PANDEMIC RESPONSE CHALLENGE

**PRIZE PURSE:** \$500 K

**PHASE:** AWARDED

**OVERVIEW:** Winning teams developed prediction models that estimate future numbers of daily COVID-19 cases with the greatest accuracy and will produce the best prescription models for Intervention Plans.

### QUALCOMM TRICORDER XPRIZE

**PRIZE PURSE:** \$10 MILLION

**PHASE:** AWARDED

**OVERVIEW:** Incentivized the development of innovative technologies capable of accurately diagnosing a set of 13 medical conditions independent of a healthcare professional or facility, ability to continuously measure 5 vital signs, and have a positive consumer experience.

### XPRIZE EMPOWERED HEALTH

**PRIZE PURSE:** \$6 MILLION

**PHASE:** FUNDING

**OVERVIEW:** Fifty percent of the world's population lacks access to essential health services. Solutions driven by XPRIZE Frontline Health will leverage the power of data and AI to increase accessibility, quality and efficiency of healthcare delivery for everyone, everywhere.

### NOKIA SENSING XCHALLENGE

**PRIZE PURSE:** \$6 MILLION

**PHASE:** AWARDED

**OVERVIEW:** Accelerated the development of hardware sensors and software sensing technology that individuals could use to access, understand, and improve their health and well-being.



# FINANCIAL SUMMARY

The Foundation’s Financial statements have been audited by CohnReznick. The accompanying consolidated financial statements are presented using the accrual basis of accounting in accordance with accounting principles generally accepted in the United States of America (“GAAP”).

The Foundation maintains restricted investments on behalf of its prize purses. As of December 31, 2021, the restricted investments balance was \$57,233,000.

In October 2021, the Foundation entered into a termination and settlement agreement for the Foundation’s leased office space, which required the Foundation to pay a termination fee in the amount of \$1,913,000. As part of the lease termination the Foundation wrote off the deferred rent liability and rent abatements of \$3,509,000. The Foundation recognized a gain on early lease termination in the amount of \$1,596,000 on the statement of activities. Total rent expense for the

operating lease was approximately \$1,355,000 for the year ended December 31, 2021.

**First draw PPP Loan**

In April 2020, the Foundation entered into an unsecured promissory note with a commercial bank for an aggregate principal amount of approximately \$1,803,000 pursuant to the Paycheck Protection Program (the “PPP Loan”) which was established under the Coronavirus Aid, Relief, and Economic Security Act (the “CARES Act”) and is administered by the U.S. Small Business Administration (the “SBA”). During the year ended December 31, 2021, the Foundation submitted its application for loan forgiveness and received notice from the SBA in June 2021 that the SBA approved forgiveness of the full amount of the first draw PPP loan and the related interest thereon. Accordingly, the Foundation derecognized \$1,803,000 of the first draw PPP loan and recognized a corresponding gain on loan forgiveness on the consolidated statement of activities.

**Consolidated Statement of Financial Position**

December 31, 2021 - Audited With Summarized Totals at December 31, 2020  
(Dollars in Thousands)

LIABILITIES & NET ASSETS	2021	2020
Current Liabilities		
Accounts Payable and Accrued Expenses	\$ 3,840	\$ 3,649
EID Loan, Current Portion	3	-
Total Current Liabilities	3,843	3,649
PPP Loan	1,794	1,803
EID Loan, Net of Current Portion	147	150
Deferred Rent	-	2,112
Deferred Revenue	8,021	8,346
Prize Purses	57,233	20,804
Total Liabilities	71,038	36,864
Commitments and Contingencies		
Net Assets		
Without Donor Restrictions	6,176	8,018
With Donor Restrictions	26,514	29,107
Total Net Assets	32,690	37,125
TOTAL LIABILITIES & NET ASSETS	103,728	\$ 73,989

FINANCIALS

Second draw PPP loan

In February 2021, the SBA approved a second draw PPP loan for an aggregate principal amount of approximately \$1,794,000. The PPP Loan promissory note contains customary events of default relating to, among other things, payment defaults, breach of representations and warranties, or provisions of the promissory note. The occurrence of an event of default may result in the repayment of all amounts outstanding and/or filing suit and obtaining a judgment against the Foundation. Subsequent to year end, the Foundation received full loan forgiveness of \$1,794,000.

EID Loan

On May 25, 2020, the Foundation received a \$150,000 loan (the “EID Loan”) from the SBA under the SBA’s Economic Injury Disaster Loan program. The EID Loan has a 30-year term and bears interest at a rate of 2.75% per annum. Monthly principal and interest payments of \$641 per month are deferred for 12 months and commence in May 2021. Payments will first be applied to accrued interest and then to principal. The EID Loan may be prepaid at any time prior to maturity with no prepayment penalties. The proceeds from the EID Loan must be used for working capital. The EID Loan contains customary events of default and other provisions customary for a loan of this type. The Foundation was in compliance with the terms of the EID Loan as of December 31, 2021. As of December 31, 2021 the balance of the EID loan was \$150,000.

Employee Retention Credit (ERC)

Under the provisions of the CARES Act, the ERC provides eligible employers with less than 500 employees a refundable tax credit against the employer’s share of social security taxes. The ERC is equal to 70% of qualified wages paid to employees during the calendar year 2021 for a maximum credit of \$7,000 per employee for each calendar quarter through December 31, 2021. At December 31, 2021, the Foundation has an employee retention credit receivable balance of approximately \$1,017,000 related to the ERC on the Foundation’s consolidated statement of financial position. During the year ended December 31, 2021, the Foundation recognized approximately \$1,017,000 of ERC related revenue on the consolidated statement of activities for credits related to the fourth quarter of 2020 and the first quarter of 2021.

On March 11, 2020, the coronavirus (“COVID-19”) outbreak was declared a global pandemic by the World Health Organization resulting in the disruption in operations of businesses domestically and globally. While the disruption is expected to be temporary, there is considerable uncertainty around the duration of this disruption. Therefore, while the Foundation expects this matter to continue to temporarily impact the Foundation’s financial condition, the extent of the financial impact and duration cannot be reasonably estimated at this time.

Consolidated Statement of Activities

December 31, 2021 - Audited With Summarized Totals for the Year Ended December 31, 2020  
(Dollars in Thousands)

REVENUE & SUPPORT	WITH DONOR RESTRICTIONS	WITHOUT DONOR RESTRICTIONS	TOTAL	2020
Sponsorships	\$ -	\$ 13,393	\$ 13,393	\$ 20,611
Contributions	1,757	1,890	3,647	3,488
Investment Income (Loss), Net	(477)	-	(477)	103
Employee Retention Credit	1,017	-	1,017	-
PPP Loan Forgiveness	1,803	-	1,803	-
Loss on Disposal of Property & Equipment	(1,996)	-	(1,996)	-
Gain on Early Lease Termination	1,596	-	1,596	-
Net Assets Released From Restriction	17,876	(17,976)	-	-
TOTAL REVENUE & SUPPORT	21,606	(\$ 2,593)	\$ 19,013	\$ 24,202
EXPENSES				
Program Services	13,041	-	13,041	18,878
Management & General	5,990	-	5,990	3,611
Fundraising	4,417	-	4,417	3,132
TOTAL EXPENSES	23,448	-	23,448	\$ 25,261
Change in Net Assets	(1,842)	(2,593)	(4,435)	(1,419)
Net Assets, Beginning	8,018	29,107	37,125	38,544
Net Assets, End	6,176	26,514	32,690	37,125



# 2021 LEADERSHIP

The XPRIZE Leadership team executes the Foundation’s mission of hope and abundance for humanity’s future by harnessing the power of innovators, technology, and resources.



Anousheh Ansari  
CEO



Michael Birnbach  
VP, FINANCE



Marcius Extavour  
CHIEF SCIENTIST,  
EVP ENERGY + CLIMATE



Peter Houlihan  
EVP, BIODIVERSITY  
+ CONSERVATION



Jim Mainard  
CTO, EVP DEEP TECHNOLOGY



Kathy Mandato  
CHIEF PEOPLE OFFICER



Alexander Nicholas, Ph.D.  
EVP, EDUCATION + SOCIETY



Andrew Tauhert  
CHIEF ADVANCEMENT OFFICER,  
EVP



Ose Ugochukwu, JD  
GENERAL COUNSEL

# 2021 BOARD OF DIRECTORS

The Board of Directors is the fiduciary board of XPRIZE, providing key leadership and financial oversight.



Anousheh Ansari  
CEO



Amir Ansari  
FOUNDER & GENERAL  
MANAGER, VATICX, LLC



Jack Bader  
CHAIRMAN, 1904 LABS



Helene Desmarais  
FOUNDER + EXECUTIVE  
CHAIRMAN, IVADO LABS



Peter H. Diamandis, M.D.  
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CHAIRMAN, XPRIZE



Gil Elbaz  
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CHIEF, UCLA VATCHE  
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DIVISION OF DIGESTIVE  
DISEASES



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CEO, GLOBAL SPACE  
VENTURES



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FOUNDER + CHAIRMAN,  
EXO WORKS, OPEN EXO



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FOUNDER, WOMEN'S  
SAFETY XPRIZE



Greg Maryniak  
SECRETARY, DIRECTOR +  
CO-FOUNDER, XPRIZE



Avi Reichental  
FOUNDER + EXECUTIVE  
CHAIRMAN,  
XPONENTIALWORKS



Lauren Selig  
FOUNDER + CEO +  
PRODUCER, SHAKE AND  
BAKE PRODUCTIONS



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EXECUTIVE IN  
RESIDENCE, MIT  
SLOAN SCHOOL OF  
MANAGEMENT



Mark Siegel  
FOUNDER + PRESIDENT,  
REMY INVESTORS



Kelly Vlahakis-Hanks  
PRESIDENT + CEO, ECOS



Don Walker  
RETIRED CEO, MAGNA  
INTERNATIONAL



Robert K. Weiss  
VICE CHAIRMAN



OUR TEAM

2021 BOARD OF TRUSTEES

The **Board of Trustees** is the most valued advisory organization of the XPRIZE Foundation, comprising thought leaders, artists, and top executives.



Eric Anderson James Cameron Ken Dychtwald, Ph.D. Richard Garriot de Cayeux James Gianopulos Jack Hidary



Eric Hirshberg Arianna Huffington Naveen Jain Dean Kamen Ray Kurzweil Eric Lindbergh



Dr. James Manyika Bob McEwan Diane Murphy Larry Page Lee Stein Ratan Tata



Ali Velshi Will Wright

2021 VISION CIRCLE

The **Vision Circle** is a membership of visionary philanthropists who underwrite the operations of XPRIZE at the highest level and provide thought leadership on the Foundation’s direction. Vision Circle members contribute a minimum of \$500,000 per year.

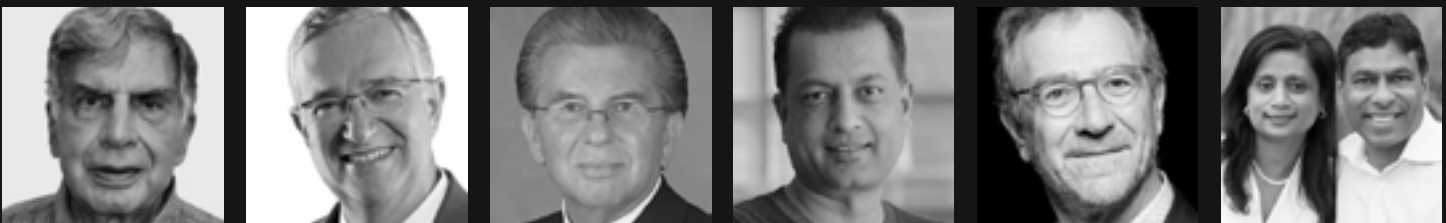
\*Members are listed in the order they joined.



Larry Page Sergey Brin Gil + Elyssa Elbaz Dr. Ray Sidney Anne Wojcicki The W. J. Silverstein Family Trust



Eric Schmidt Wendy Schmidt The Ansari Family Dr. Richard Merkin, M.D. Dustin Moskowitz Rob McEwan



Ratan Tata Ricardo B. Salinas George M. Marcus Pharesh Ghelani Jeffrey Shames Naveen + Anu Jain



John Templeton Foundation Sidd Pagidipati Nabyl Charania + Rodrigo Tona Glenn Sanford


# 2021 INNOVATION BOARD

The **Innovation Board** is made up of philanthropists who are entrepreneurs and CEOs who work with the XPRIZE leadership team to help define the grand challenges and areas of focus for XPRIZE. Innovation Board members contribute a minimum of \$150,000 per year, which underwrites the work of the Foundation.

					
Sanju Bansal	Fabricio Bloisi	David Blundin	Chuck Brady	Derek Collison	Sam Engelhardt
					
John Frank	Garret Gerson	Kam Ghaffarian	Alexandros Giannou	Dr. Joan Greco	Seth Green
					
Susan + Duane Hoff	Ann + Paul Konecny	Yixiang Liu	Megan McGill	Mark Siegel	Christian Stolz
					
Ana Lucia Villela	Don Walker	Beau Wrigley, Jr.	Charlie Young	Sergey Young	

# 2021 SPIRIT OF XPRIZE

**Spirit of XPRIZE** members are regional XPRIZE ambassadors who effect change and build community that drive research, innovation, and bold ideas to meet the global challenges we face today. Spirit of XPRIZE members contribute \$50,000 per year.

					
Jack Bader ST. LOUIS	Teymour Boutros-Ghali LOS ANGELES	Jon Huberman LAS VEGAS	Ben Kante LOS ANGELES	Jim Kwik NEW YORK	Ashley Merrill LOS ANGELES
					
Marc Merrill LOS ANGELES	Diane Murphy LOS ANGELES	Tony Pritzker LOS ANGELES	Joni Rogers-Kante LOS ANGELES	Chip Rosenbloom LOS ANGELES	Lauren Selig LOS ANGELES
					
Dr. Jay Short LOS ANGELES	Nina Stanford LOS ANGELES	Scott Stanford LOS ANGELES	Kelly Vlahakis-Hanks LOS ANGELES	Jeff Wilke SEATTLE	Liesl Wilke SEATTLE



# JOIN THE MOVEMENT


We invite you to join us in building an abundant future for all.  
Read on to learn the numerous ways you can participate in XPRIZE.


## **CONTRIBUTE**


The work we do wouldn't be possible without the contributions of people like you. We offer a number of ways in which you can partner, sponsor, or donate to our foundation. To learn more, simply email us at [getinvolved@xprize.org](mailto:getinvolved@xprize.org)


## **JOIN IN THE CONVERSATION**


Follow us on social media to be part of the movement and contribute to the conversation. Watch compelling stories about groundbreaking innovations and the people building them, and tune-into the world's foremost experts and thought leaders who are propelling us toward a better tomorrow.

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