A MORE HOPEFUL VISION

WHAT IS XPRIZE

The mission of XPRIZE is to inspire and empower humanity to achieve breakthroughs that accelerate a hopeful future for all.

We use incentive prize competitions to motivate innovators to develop technological solutions that are audacious but achievable in a relatively short amount of time.

HOW IT BEGAN

➤ **$10M** Ansari XPRIZE for spaceflight, captured the **world's imagination** launched the commercial space industry.

➤ **$100M** **investment** by all 27 teams from 7 countries.

➤ **$6B** IPO by Virgin Galactic (the winning team)

➤ **$1T+** size of the New Commercial space industry

XPRIZE

P-3

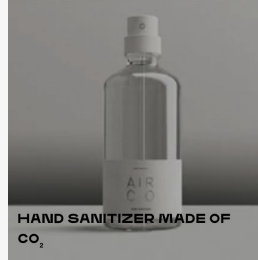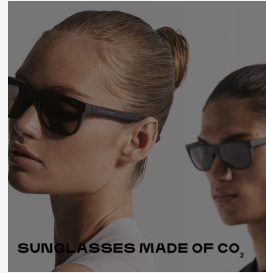# OUR WORK IN CLIMATE & ENERGY: PRIZE AWARDED

PRIZE AWARDED IN 2021

The $20M NRG COSIA Carbon XPRIZE develops breakthrough technologies to convert CO2 emissions into usable products.

PRODUCTS MADE OF CO2

SUNGLASSES MADE OF CO_2

HAND SANITIZER MADE OF CO_2

VODKA MADE OF CO_2

POST PRIZE IMPACT

- The partnership with the State of Wyoming and the Province of Alberta to build cutting-edge test facilities, investing **$52M** (outside of the prize budget) already **generated $100+ million of research and development in Wyoming alone.**

- Wyoming's position as a key hub for innovation has led to **five megaton direct air capture and storage projects** in Wyoming

- Creation of a **new international standard for carbon capture**, ISO 14034, designed to provide credible, reliable and independent verification of the performance of environmental technologies.

OUR WORK IN CLIMATE & ENERGY: ACTIVE PRIZE

>1,100 TEAMS
81 COUNTRIES

- **Largest** incentive prize in history
- The prize included a **$5M Student Competition** which was awarded to 23 student teams
- Milestone Round of the competition (Feb 2022): **over 450 proposals** were submitted and reviewed by 70 expert reviewers, making this **the world's largest technical review of carbon dioxide removal projects** to date.
- Feb 2023: **report** published with Carbon 180 to embed environmental justice into the Milestone Round of the competition.
- March 2023: **Circular Carbon Network Market Report** was published tracking investment and commercial activity in the circular carbon sector since 2019.
- The XPRIZE Carbon Removal launch moment **2.1B total media hits, with an $24M+ earned media ad equivalency** and a 92% positive media sentiment.
- **Credit Suisse/XPRIZE Carbon Investment Summit** (May 2023) - 60 top teams, 500+ investors

XPRIZE ENERGIZING THE FUTURE

Fossil fuels still represent over 80% of the global energy mix and contribute to three-fourths of greenhouse gas emissions – most of which are associated with the sectors hardest to electrify, but critical for economic activity and energy equity.
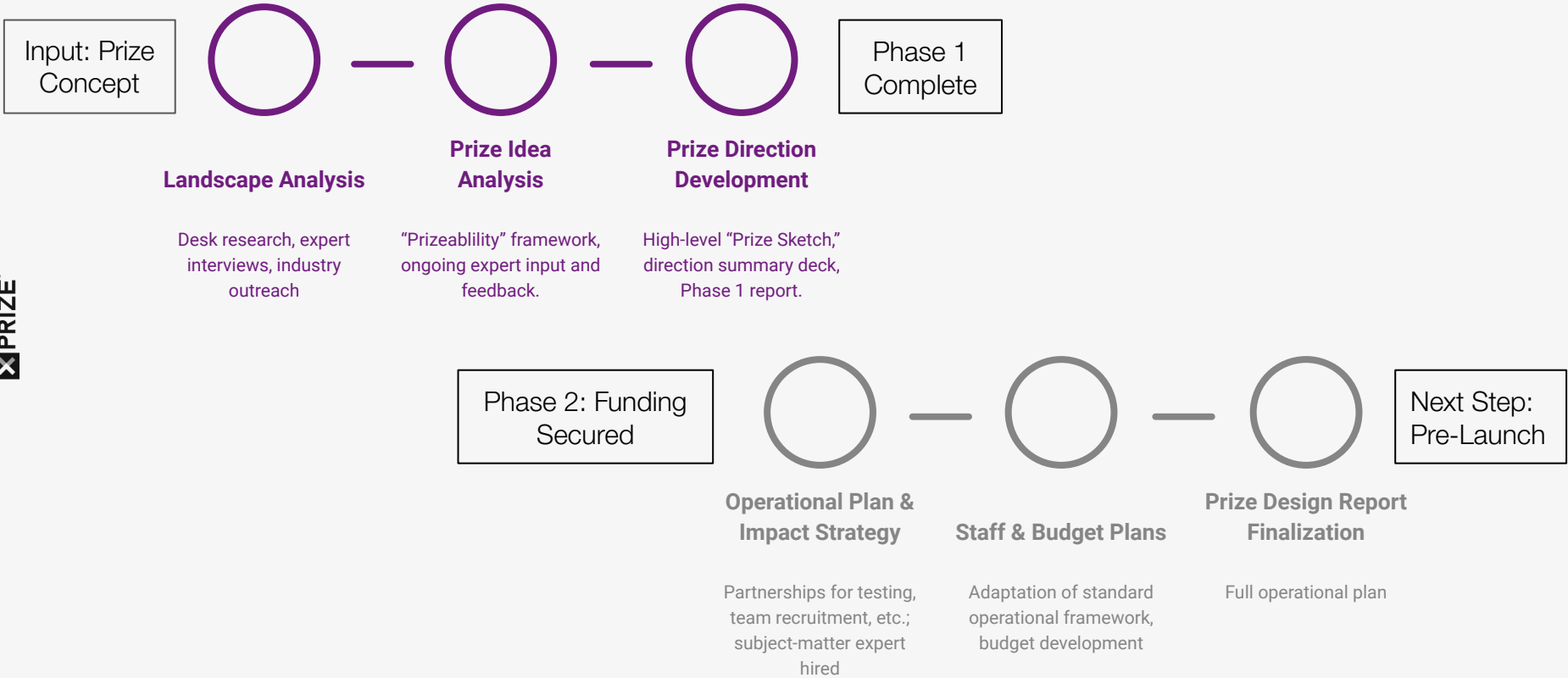
XPRIZE Energizing the Future will challenge innovators across the globe to develop affordable, efficient renewable **e-Fuels and other energy carriers** for immediate decarbonization of industries such as aviation and shipping, and bridge the gap toward long-term electrification.

"60% of 2050 GHGs will be from hard to electrify sectors including ships, planes, trucks, industry and cooking"

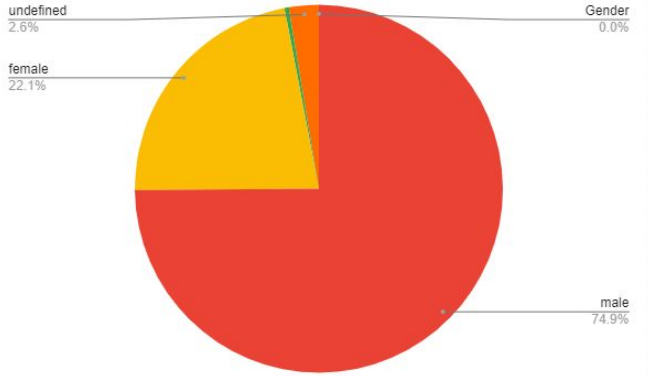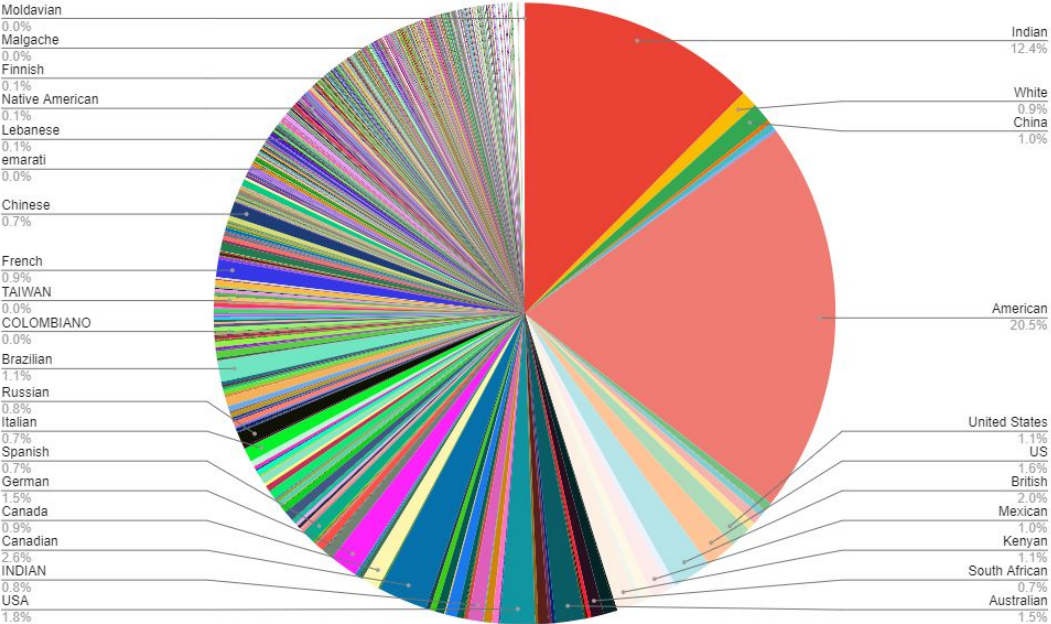International Energy Agency
Net Zero by 2050

IN PARTNERSHIP WITH:

IEEE
Advancing Technology for Humanity

Input: Prize Concept — Landscape Analysis — Prize Idea Analysis — Prize Direction Development — Phase 1 Complete

Landscape Analysis

Desk research, expert interviews, industry outreach

Prize Idea Analysis

"Prizeablility" framework, ongoing expert input and feedback.

Prize Direction Development

High-level "Prize Sketch," direction summary deck, Phase 1 report.

Phase 2: Funding Secured — Operational Plan & Impact Strategy — Staff & Budget Plans — Prize Design Report Finalization — Next Step: Pre-Launch

Operational Plan & Impact Strategy

Partnerships for testing, team recruitment, etc.; subject-matter expert hired

Staff & Budget Plans

Adaptation of standard operational framework, budget development

Prize Design Report Finalization

Full operational plan

ALUMNI DEMOGRAPHICS

THIS IS OUR PREFERRED FUTURE STATE FOR PRIZE DESIGN.

SOCIAL INNOVATION

Increasingly equitable impact inspires systemic change in the sectors we engage.

INTERNAL INNOVATION

We apply a socially responsive equity strategy to our prize design process.

WE NORMALIZE EQUITABLE INNOVATION.

COMPETITIVE INNOVATION

Sponsors and competitors adapt to our embedded equity strategy.
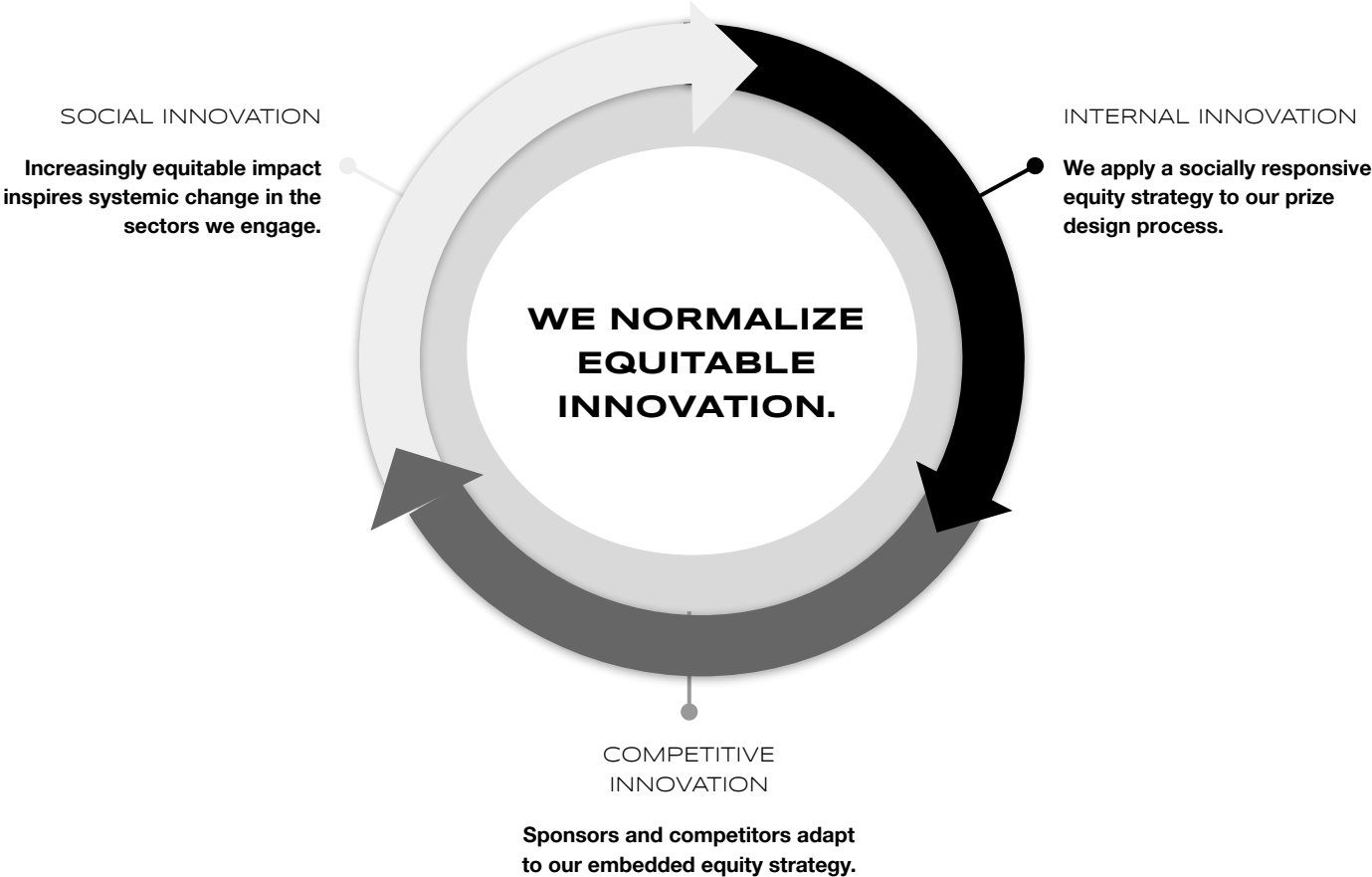
EQUITY PRINCIPLES

WE LEVERAGE COMPETITION TO INSPIRE EQUITY.

#1 | WE START WITH INTENTION.

#2 | WE SHARE ABUNDANCE.

#3 | WE LEAN IN. AND ON.

#1 | **START WITH INTENTION**

🎯

STATEMENT OF EQUITABLE INTENT

TYPE: DOCUMENT

The prize development process includes the development of a statement of intent with regards to diversity, equity and inclusion. This statement is informed by the deep research and dialogue that guides the creation of Prize Concepts.

🤝

AFFORDABILITY, ACCESSIBILITY & DIVERSITY ANALYSIS

TYPE: FRAMEWORK

Brain Trusts and Prize Teams use our framework for understanding issues related to affordability, accessibility, and diversity. This analysis ensure these issues inform the development of new solutions - especially for prizes focused on scaling innovation.

🚀

BREAKTHROUGH & SCALING MINDSET

TYPE: REFRAME

XPRIZE continues to focus on discovery and breakthrough but formally identifies targeted impact goals that promote equity across domains and throughout each prize.

✕PRIZE®

#1 | START WITH INTENTION

✳ STAKEHOLDER ALIGNMENT

TYPE: PROCESS

We work with our prize sponsors and partners to align on our values. This includes sharing our perspective on the relationship between innovation and equity and building buy-in for an inclusive prize design process.

🔟 EQUITY SCORECARD

TYPE: DOCUMENT

Final Prize Concepts include an Equity Scorecard that will be used to evaluate the potential impact of innovations surface during the prize process.

PRIZE®

#2 | SHARE ABUNDANCE.

📦

N+1, OR SHARE YOUR SEAT

TYPE: PROCESS

We recognize that individual network are limited and exploit the power of "degrees of separation" to build diverse Brain Trusts. Each invitation to join a Global Visioneering comes with an invitation to either pass your seat at the table on to an underrepresented innovator or have them join you in the process.

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IDEAL BRAINTRUST FRAMEWORK

TYPE: FRAMEWORK

Prize Design leaders will use a framework for determining the ideal composition of Brain Trust participants at the Global Visioneering phase. This framework will ensure diverse perspectives at this critical early stage.

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EXPERT COMPENSATION

TYPE: PROCESS

We work with prize sponsors to provide funding for underrepresented experts to participate in the Global Visioneering process, recognizing that disparities in wealth may affect the ability of experts to contribute their time to the work.

PRIZE

#2 | SHARE ABUNDANCE.

🌱
IDEAS COMPETITION

TYPE: REFRAME

XPRIZE will explore the potential of low-cost ideas prizes to teams who might not otherwise have access to money needed to participate in larger competitions.

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EQUITY GRANTS

TYPE: PROCESS

Equity Grants enable under-resourced teams and under-represented innovators to pursue solutions to Prizes. These investments will remove barriers to participation and ensure that the best ideas rise to the top, regardless of where they come from.

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EQUITY BONUSES

TYPE: PROCESS

Equity Bonuses give credit to prize teams that include novel approach to equitable design in their solution - giving a distinct advantage to ideas that balance novelty and scalability.

PRIZE

#3 | LEAN IN. AND ON.

✅ EQUITY CHECKLISTS

TYPE: PROCESS, DOCUMENT

XPRIZE will develop an Equity Checklist to ensure all prizes meet our standards for equitable design. The checklist will include key considerations, tools, and processes that design teams can utilize to build diverse, equitable, and inclusives prizes.

⏱️ EXPANDED PROCESS TIMELINE

TYPE: PROCESS

Prize design teams are empowered to expand the timeline for developing prizes in order to ensure core equity milestones are achieved - including identifying diverse Brain Trust participants, engaging folks with lived experience of the issues, and ensuring participation by historically marginalized innovators.

🔍 1:1 RESEARCHER-TO-DOMAIN RATIO

TYPE: PROCESS

Researchers are given the time they need to deeply explore their domains, including investigating and developing relationships with community organizations and leaders that can provide crucial impacted-informed perspectives.

PRIZE

#3 | **LEAN IN. AND ON.**

THE XPRIZE EQUITY COUNCIL

TYPE: RESOURCE

The Equity Council is an internal group charged with ensuring the implementation of our equity principles and practices. By developing expertise around equity and innovation and collaborating with prize design teams, the Council will help to build DEI muscle memory for our work.

🌐 EXPERTISE & EXPERIENCE NETWORK

TYPE: RESOURCE

We will develop and maintain a global network that includes current and former collaborators who are tapped at inflections points in our process. By re-engaging our network, we can orchestrate serendipity - trusting that the wisdom and connections we need live within our community.

PRIZE

DISCOVER. UNDERSTAND. PRESERVE.

PHASE Finals

XPRIZE RAINFOREST | alana

PRIZE DESIGN

CURRENTLY IN DEVELOPMENT

Quantum for Sustainable Development

Teams will merge quantum and domain expertise to develop quantum algorithms that solve a problem relevant to one of the following SDGs: Goal 2 (Zero Hunger), Goal 3 (Good Health and Well-being), Goal13 (Climate Action). This competition aims to accelerate the practical application of QC by developing better algorithms for real world problems.

Desalination

This competition will course-correcting the desalination industry by moving beyond the decades-long trend of incremental, component -focused improvements to system-level redesign of desalination systems to be both efficient and sustainable. Course-correcting by highlighting sustainability, resilience, and CapEx alongside OpEx targets.

Financial Inclusion

This XPRIZE aims to revolutionize the credit landscape by fostering the development of groundbreaking solutions that break down barriers to credit access for businesses and individuals disparately impacted by the traditional credit system.

DEMOCRATIZING CLEAN ENERGY

THE WINNING TEAM WILL…

Design, manufacture, and deploy a scalable clean energy system with the following characteristics:

- Provide a net-GHG-free power system that expands from 500W to 1 MW **using the same elements**
- Demonstration in 2 distinct geographic off-grid areas in the Global South (Bonus for high-latitude North)
- Energy costs less than USD$0.10 per kWh and less than USD$1 per peak installed watt (in 2026)
- Provides 90% reliability for 25% of the load and the remaining load will be available for 6 or more hours/day at least 85% of days.
- **Autonomous/just works** - no external expertise required to install, operate & maintain
- **Design for circular economy**

THANK YOU