



# WE WORK TO CHANGE THE WORLD

Worldprizes is an innovation ecosystem, that aims to make the world a better place.

JULY 25TH | PORTUGAL



# ABOUT THIS BOOK

Our aim at World Prizes is that every launched prize changes the way the world thinks about a problem and its solution. Our goal is to find a solution and focus the world's energy on solving the problem. At worldprizes our goal is also to change mindsets. This Document shares our vision and beliefs about the world.

This document contains our currently active worldprizes competitions and highlights many concepts we believe have the possibility to become the great worldprizes competitions of tomorrow. These prizes are necessary to make the world a better place for everyone.

At worldprizes we aim to create incentivised competitions driving innovation and creating sustainable industries and breakthroughs for humanity. We aim to shift some of our economic efforts towards the problems we believe are urgent and important to be solved. Countries invest

money in sectors which are far from being the priority for humanity, but governments are big structures with routines and hard-to-change dynamics. At world prizes we aim to redirect the available money to problems that are urgent and crucial for humanity.

Achieving our goals is only possible with your support. We would like to thank everyone supporting our prizes and everyone involved in making these prizes a reality. As you read through this book, we hope these worldprizes concepts will make you decide to support worldprizes. We are constantly seeking sponsors and donors to support the capitalisation of these and other future worldprizes competitions.

The prospects for worldprizes is bright and our team is looking forward to continuing to create the future with all of you.





# WHO WE ARE

WORLDPRIZES IS AN INNOVATION ECOSYSTEM, THAT AIMS TO MAKE THE WORLD A BETTER PLACE.

We believe in the power of competition and we believe in humanity. We firmly believe that the large majority of people are good in nature and wish a better future for themselves, their families, and everyone else. Society sometimes curves peoples behaviours, who in face of group behaviours tend to follow the norm. We firmly believe that if you incentivise people to do good, great things happen.

We also believe that humanity needs a company that helps identify the major problems and its priority, clearly identifying and focusing humanities resources on the right direction. We aim to focus humanity on solving the world's most pressing issues. We believe that money, the right combination of people and expertise, and the right timing, permits finding solutions for the worlds most difficult problems. We also believe that challenges must be achievable and measurable within reasonable time-frames. This is one of our priorities, to follow technology and to identify and select challenges which are solvable in a reasonable time-frame. We believe that one

measured, and make measurable everything else".

We also firmly believe that solutions for the world's most difficult problems can come from anywhere in the world and from anyone in the world. We believe that each person has tremendous potential to solve problems, but we also believe that everyone needs the right environment to nurture its creativity and devotion. This is also what WorldPrizes provides, together with it's parter companies, organisations and governments, to everyone around the globe. The greatest minds of our time are everywhere and are ready to be engaged in audacious challenges. At worldprizes we are constantly seeking for solutions, and we work to create the right ecosystem capable of solving the world's most difficult problems.

At Worldprizes we believe that everything is possible if you have the right mindset, the right ecosystem, the rights connections, the rights timing, and a tremendous persistence and dedication...

At worldprizes we aim to CHANGE THE WORLD.







## WHAT WE DO

We provide the proper leadership and expertise to shape the discussion and turn ideas into audacious action on a worldwide scale. We accept teams from anywhere in the world to compete for our prize competitions. Everyone has the same chances to success, regardless of living in Mumbai, or Silicon Valley, California. Worldprizes provides the same support, networking, engagement, access to capital, connections, and motivation to every single team of participants. It is our goal to hear and evaluate everyone, equally and fairly.

One of our tasks is to identify the grand challenges of our time (both for specific countries or problems at a global scale). We look for opportunities where solutions are believed to be out of reach. Another of our tasks is also to design, and operate, incentivised prize competitions to solve these problems. For optimising the success of this crucial process we are lucky enough to have with us the brightest and most persistent minds of the planet.

We are essentially a digital platform bringing together passionate partners to accelerate a positive future based upon our vision. We gather sponsors, entrepreneurs, philanthropists, industry, government, academia and innovators who help us identify the most important and urgent problems, helping us prioritise our prizes and the future of humanity.

Another of our focus is with the innovators and their future radical breakthroughs that will benefit humanity. We provide support, as far as it is possible, to all teams competing on our competitions. You are building the future, creating a better future for everyone in the blue planet.

We aim to make the right questions, provide the best possible support platform, provide global visibility to the teams and prizes, bring credibility and opportunity for entrepreneurs to take risks that ultimately lead to radical breakthroughs.







# WHAT IS A WORLDPRIZE

A WORLDPRIZE IS A INCENTIVIZED PRIZE COMPETITION THAT BRINGS NEW SOLUTIONS TO A PROBLEM, CHANGING THE WORLD FOR THE BETTER.

A worldprize captures the world's imagination and inspires everyone to reach for similar goals, spurring innovation and accelerating the rate of positive change.

A worldprize must necessarily meet rigorous criteria. A worldprize tackles an audacious goal, and pushes the boundaries of human potential by focusing on problems currently unsolved. There is a large variety of reason why some problems are currently unsolved.

A worldprize is by nature solution-agnostic... We define the challenge and incentivise teams around the world to find solutions. Our prizes are bold and audacious, but necessarily achievable, which ensures teams that they can win the worldprize.

A worldprize can be won by anyone (from a team of industry experts to a team of well-funded high school students). We work to make our prizes achievable in reasonable time-frames. A worldprize is typically designed for a time frame of 2-7 (two to seven) years, allowing teams to have enough time to succeed, while ensuring momentum and ensuring

that the industry will not outpace the competition. Our prizes have clear, objective and simple rules. We provide easy-to-understand rules and goals that are measurable and understandable by everyone. Our prizes are easy to convey: The winning of the competition itself is interesting and compelling, and has innate narratives that are easily conveyed to our audiences.

Our prizes can be leveraged: A worldprize provides leverage for a sponsor's investment by driving an additional investment in support of a solution. Our prizes optimize the investment of capital on finding a solution for the problem, in particular for the reason that we shift the risk from sponsors to competitors.

Our prizes attract investments of capital and time from motivated participants, and they can attract further investment. Our prizes drive investment, enabling teams to attract capital, support and team members.

A worldprize is expected to give birth to new industries or transform/revitalize existing ones. Our prizes provide vision and hope. Worldprizes inspires hope through our vision of a better future, where winning teams are the proof that the world's seemingly impossible problems can and will be solved.



# PARTNER WITH WORLDPRIZES

OUR DONORS AND SPONSORS ARE A GROUP OF COURAGEOUS VISIONARIES WHO SUPPORT OUR MISSION AND OUR PRIZES.

Envision Masters members are our largest contributors, fuelling our capacity to add prize competitions and enhance educational outreach. Envision Masters members are our core members and their input is vital to our long-term focus and success.

Our internal Innovation Board is a group of actively engaged people focused on strategic topics such as defining our areas of focus. The Innovation Board also works closely with our company Board to identify strategic partners and opportunities.

Envision Masters members are also a group of investors who provide the seed capital used to design, fund and launch worldprizes competitions as well as support the ongoing mission of the Foundation. Becoming a member allows you to also participate with your ideas, passion and connections.

Envision Masters members underwrite the design and planning of future worldprizes competitions. With our supporters, we define the worldprizes that can best solve the technological, market, behavioural, and policy failures that are preventing breakthroughs in a given area. We identify the competition structure that will attract global teams. We define the marketing and educational extensions that will bring about the greatest awareness and engagement from the general public. Lastly, we develop the metrics for assessing the impact of a prize so that we can measure how the prize has created or catalyzed industries.

Envision Masters members support active worldprizes competitions. The funds are used to launch, operate and award the prize. This includes: the prize purse which is only awarded upon a team achieving a measurable, objective goal, operational costs to demonstrate, measure and assess the teams' efforts, and the promotional and educational capital to celebrate the achievements of teams and therefore change the global mindset on what is possible.





# ENVISION HUMANITY

## GATHERING THE GREATEST MINDS

Each year, envision masters gathers leading philanthropists, CEOs, government officials, thought-leaders, journalists, scientists, innovators, and storytellers to tackle the world's Grand Challenges. Together with our sponsors, we nurture passionate social entrepreneurs who believe our model of incentive competition could lead to breakthroughs that propel us forward. Our members are a group of brave geniuses who support our mission.

Envision Humanity members are the largest contributors to envision the future. Fuelling the capacity to solve problems helping create and nurture companies and prize competitions for enhance educational outreach. Envision Humanity members input is vital to our long-term focus and success. Our Envision Humanity members are our Innovation advisors. A group of actively engaged people focused on strategic topics such as defining our areas of focus. The Envision Humanity group also works closely with our company Board to identify strategic partners and opportunities. Envision Humanity members are also a group of investors who provide the seed capital used to design, fund and launch companies and competitions as well as support the ongoing mission. Becoming a member allows you to also participate with your ideas, passion and connections. Envision Humanity members are the largest contributors to envision the future. Fuelling the capacity to solve problems helping create and nurture companies and prize competitions for enhance educational outreach. Envision Humanity members input is vital to our long-term focus and success. Our Envision Humanity members are our Innovation advisors. A group of actively engaged people focused on strategic topics such as defining our areas of focus. The Envision Humanity group also works closely with our company Board to identify strategic partners and opportunities. Envision Humanity members are

also a group of investors who provide the seed capital used to design, fund and launch companies and competitions as well as support the ongoing mission. Becoming a member allows you to also participate with your ideas, passion and connections.

Envision Humanity members underwrite the design and planning of future companies and competitions. With our supporters, we help define the next companies or prizes that can best solve the technological, market, behavioural, and policy failures that are preventing breakthroughs in a certain area. We identify the competition structure that will attract global teams. We define the marketing and educational extensions that will bring about the greatest awareness and engagement from the general public. Lastly, we develop the metrics for assessing the impact of a company or prize so that we can measure how the company or prize has created or catalysed new industries aimed to solve a specific problem.

Envision Humanity members support active companies and prize competitions. The funds are used to launch, operate and award the prizes and companies. The prize is only awarded once a team, or company, achieves a measurable, objective goal.

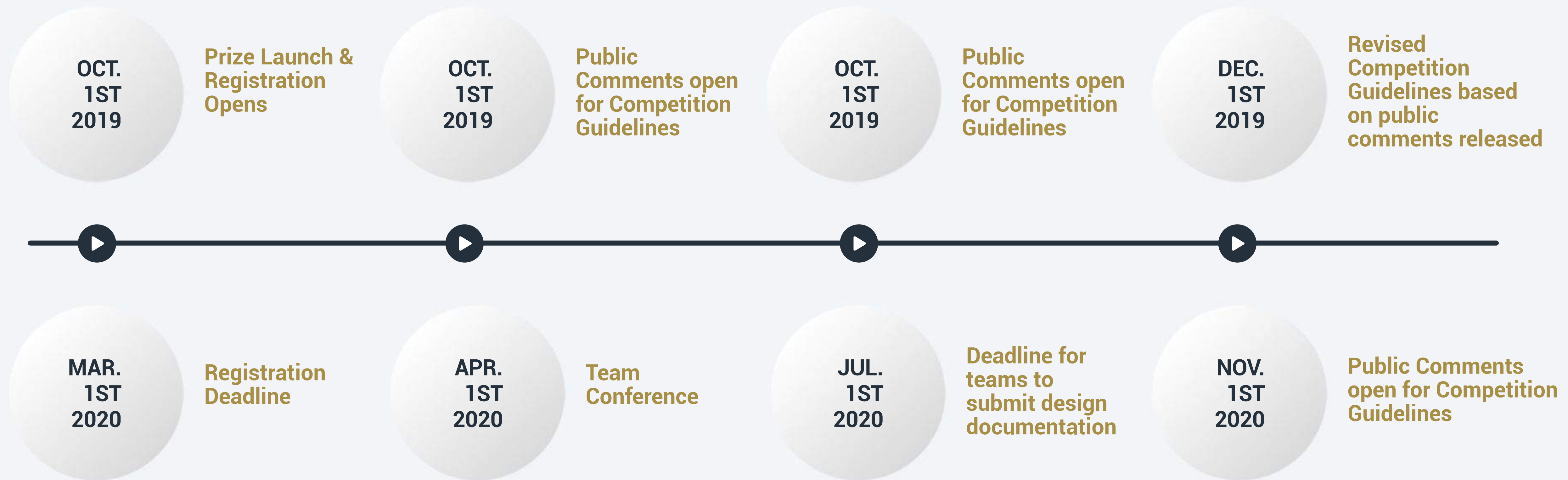
### WE WILL ASK THE BIG QUESTIONS

What are the biggest problems we face that are not being solved? Why aren't business, philanthropy or government getting the job done? Who is out there who could solve this problem, but isn't being asked? These are the questions we ask at Envision Humanity group as we convene the world's foremost thinkers to help us design the next great worldprizes.





# PRIZE SCHEDULE





# PRIZE SCHEDULE







# PORTFOLIO





CLICK ON THE COMPETITION  
TO SEE MORE



HEALTH  
COMPETITIONS



POLITICS / ECONOMICS / NATIONS  
COMPETITIONS



LEARNING EDUCATION  
COMPETITIONS



SPACE  
COMPETITIONS



TRANSPORTATION  
COMPETITIONS



ENVIRONMENT  
COMPETITIONS



WATER / OCEANS  
COMPETITIONS



CINEMA-INSPIRED  
COMPETITIONS



PERSONAL LIFE  
COMPETITIONS



ENERGY  
COMPETITIONS



COMMUNICATION  
COMPETITIONS



GLOBAL DEVELOPMENT  
COMPETITIONS



SECURITY  
COMPETITIONS



OTHER  
COMPETITIONS

INDEX

PORTFOLIO





# HEALTH COMPETITIONS





# HEALTH COMPETITIONS

## ENDING-CANCER WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

The end-cancer WORLDPRIZE is a prize purse totalling \$10 Million. The competition incentivises the talents around the world to create a integrated clinical solution which will improve patients average lifespan in 3 times the average survival rate without the treatment. The solution can include nutritional strategies, relaxation systems, chemotherapy, surgery, immunotherapy, metabolomics approaches, or any other strategy, as well as the use of a group of all the existing strategies to demonstrate the routes to double patients average life-expectancy (compared to the current survival rates from NCCN. It is expected that a company is created to implement the winning solution around the globe, in coordination with hospitals and governments worldwide. The solution has to prove being effective in 95% of all forms of cancer.





# HEALTH COMPETITIONS

## CANCER DETECTION WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

The number of patients with detection of the different types of cancer continue to rise for most types of cancer. A fundamental tool for survival is early cancer detection. This prize aims to incentivise and award the creation of a solution which allow cancer tests regularly, comfortable, at everyone's home. For example a device, which makes some kind of physical examination and sends the data to the web, and provides a proper cancer diagnosis. Early detection will mean a significantly larger number of saved lives.





# HEALTH COMPETITIONS

## HUMAN HEALTH-SPAN AND LONGEVITY WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

The end-cancer WORLDPRIZE is a prize purse totalling \$10 Million. The competition incentivises the talents around the world to create a integrated clinical solution which will improve patients average lifespan in 3 times the average survival rate without the treatment. The solution can include nutritional strategies, relaxation systems, chemotherapy, surgery, immunotherapy, metabolomics approaches, or any other strategy, as well as the use of a group of all the existing strategies to demonstrate the routes to double patients average life-expectancy (compared to the current survival rates from NCCN. It is expected that a company is created to implement the winning solution around the globe, in coordination with hospitals and governments worldwide. The solution has to prove being effective in 95% of all forms of cancer.





# HEALTH COMPETITIONS

## HUMAN REJUVENATION WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

Create and implement a method to rejuvenate (by several biological parameters) the biological age of a human in 10 years, of their evaluated age. The method can include the use of stem cell treatments, drugs for simulation of exercise, or any other strategy implemented by the teams. The treatments cannot take more than 3 months to apply to the patient. The winning teams are required to submit an entry that addressed several parameters, and needs to prove that their mixed approach rejuvenated the patient in at least 10 years (by all biological metric measurements: like heart pumping capacity, skin elasticity, etc...).





# HEALTH COMPETITIONS

## CRYOPRESERVATION OF ORGANS

\$10 MILLION

### GRAND CHALLENGE

During the last decades, researchers around the world have proven the capability of successfully cryopreserve semen, blood, embryos, stem cells, and other small cell samples. For medical practice it would be essential to have available organs for transplants. Currently organs are donated from clinically dead people, and require a complicated logistics, and proper timing for being useful. Even when viable, the organ recipient is required to take immune suppression drugs for the rest of his life, to avoid organ rejection. Successful preservation of entire human organs will decrease the cost of organ replacement and help the more than 100,000 patients currently on waiting lists for organ donation. The viable replacement of human organs would help postpone more than 30 percent of all deaths in the U.S.. It would also raises the human average longevity. The success of this prize will transform organ transplantation into one of the (economically) largest fields of current medicine. In the future, with a large supply of available cryopreserved organs, transplantation could serve other purposes, apart from survival surgery.





# HEALTH COMPETITIONS

## CRYOPRESEVATION OF HUMANS

\$10 MILLION

### GRAND CHALLENGE

Human cryopreservation is an essential technology which will have tremendous applications in the medical field, saving lives, for example in cases where patients are far from the hospital environment. Cryopreservation of humans will permit stopping time temporarily and safeguard the patients life. Another extremely likely important application of this technology is on space. Humanity is aiming to become a multi planetary species in the next decades, most notably with efforts from private companies like SpaceX. Interplanetary trips might require the use of reversible cryopreservation to eliminate the problems of very long trips between planets. The teams competing for this prize will have to prove that they can cryopreserve a dog down to  $-100^{\circ}\text{C}$  degrees, keep it for at least 24 hours under  $-100^{\circ}\text{C}$  degrees and afterwards revive the dog, proving that the dog's memory was preserved as well as his physical and behavioural parameters.





# HEALTH COMPETITIONS

## ALZHEIMER'S AND PARKINSON'S DISEASE

\$10 MILLION

### GRAND CHALLENGE

Neurodegenerative diseases, such as: Parkinson, Alzheimer, Huntington's disease, dementia, and motor neuron diseases (such as Amyotrophic Lateral Sclerosis), are mainly caused by the gradual death of individual neurons and supporting glia leading to serious diminution in movement control, memory, cognition, mood and personality alterations, down to impairment in basic motor control such as an individual's ability to carry out basic functions as walking and swallowing [AlzheimerA, 2013]. Also involved in Alzheimer's is the loss of synapses, which is highly related to cognitive decline [Dekosky and Scheff, 1990; Terry et al., 1991; Scheff and Price, 2006]. Promising biotechnology-based approaches include transplantation of stem cells (reported to seriously help improve memory and learning in older mice models with Alzheimer's, anticipating potential success for humans) [Tong, 2014]. Worldwide, there are 35.6 million people with Alzheimer, and the number is predicted to grow to 115.4 million people by 2050 [BDBN, 2012]. An estimated 5.2 million Americans have Alzheimer, making it the sixth leading cause of death in the United States. An estimated 203 billion dollars were spent treating Alzheimer's patients, adding to the 216 billion dollars of unpaid care (calculated for the 17.5 billion hours spent by family and friends) [AlzheimerA, 2013]. This prize focuses on early detection of the disease and delaying of the disease progression. The winning team are expected to develop a system for effectively screen patients at risk for Alzheimer's disease, and will also have to demonstrate the ability to improve cognitive function in late stage Alzheimer's patients.





# HEALTH COMPETITIONS

## HAPPINESS WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

Happiness is not about the temporary pleasant feelings. Happiness might be related with the overall valuation that people make about their lives, bodies, minds and circumstances. Happy people tend to have healthier, more productive, and more fulfilling lives. The quantification of “global subjective happiness” has been the subject of research worldwide for several decades. The Happiness WORLDPRIZE intends to inspire everyone around the globe, including: doctors, psychologists, engineers, computer scientists, programmers, and many other to advance innovations in technologies for quantifying the global subjective happiness on humans. WORLDPRIZES envisions a future where everyone can track the relation between life experiences and consequent impact on their personal happiness. Such information will help each one of us to choose and make informed decisions about our future and our allocation of time and resources to maximize our own happiness. The capacity to properly measure happiness would also empower decision makers in companies, governments, and other institutions to choose the proper interventions for increasing happiness of the stakeholders/citizens.





# HEALTH COMPETITIONS

## REWALK WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

The RECOVER WORLDPRIZE will award the prize to the team that implements a system that re-estores paraplegic individual to considered near-normal capability. The technology might be biological (for example using stem cells to restore the spinal cord damage) or might for example be technological involving a combination of a BMI system with an exoskeleton. By near-normal capability we consider the following: 1 – After treatment the patient is able to perform at least the following number of functions: standing, sitting and laying, including comfortably transition from one position to the other. 2 – Independently use the toilet. 3 – Naturally and comfortably climb stairs. 4 – Stand on a vertical position. 5 – walk 100 meters with not external help. 6 – run at 5 Km per hour for at least 100 meters. 7 – bike independently. Observation: all of these tasks have to be performed by the patient with hands-free function (for exemple via BMI using an EEG external sensor).





# HEALTH COMPETITIONS

## BIONICS WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

There are Million of people living without the, partial or complete, use of their legs / arms or hands due to limb loss. Today, for those patients missing one or both legs, have as only alternative wheelchairs or walker.





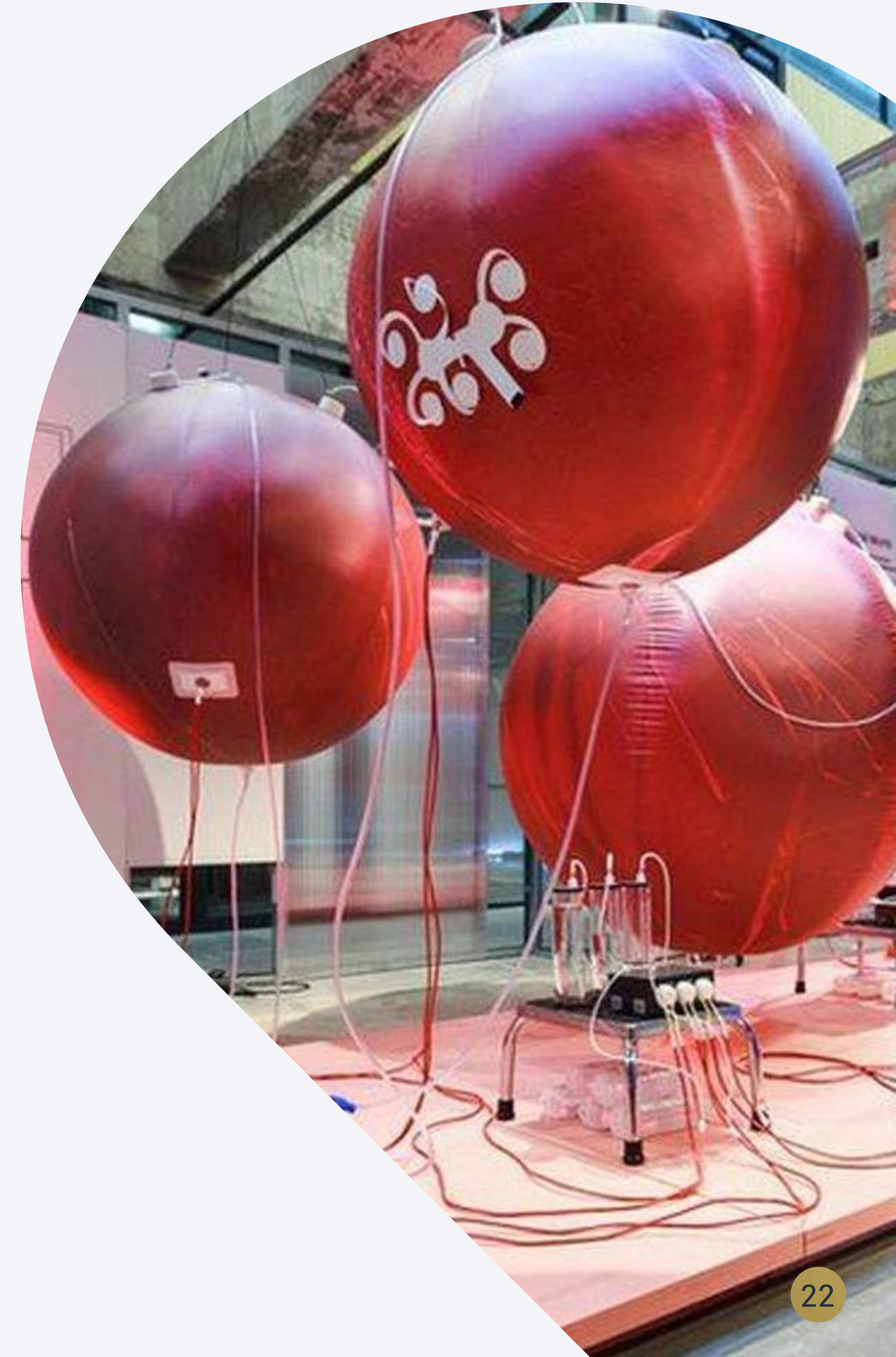
# HEALTH COMPETITIONS

## ARTIFICIAL WOMB WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

This prize aims to award the creation of an artificial womb where any type of extinct animal can be incubated. This is crucial for the creation of life in new planets, or for the revival of extinct species, and to prevent unnecessary deaths on earth. Every day, approximately 830 women die from preventable causes related to pregnancy and childbirth, with 99% of all maternal deaths occur in developing countries. The World Health Organisation aims to, between 2016 and 2030, as part of the Sustainable Development Goals, to reduce the global maternal mortality ratio to less than 70 per 100 000 live births. This technology would help achieve this goal.





# HEALTH COMPETITIONS

## ORGANOGENESIS

\$10 MILLION

### GRAND CHALLENGE

Organ transplantation, as of today, has several serious problems. It depends on organ donation (with a serious shortage of available organs for transplantation, with approximately 1 million organs being needed worldwide annually). Even when a match is done between patient and donor, the time-frame of survivability of the organ is very short. For those few patients getting an organ, they have to take immune suppression drugs for the rest of their lives. For those patient which receive an organ, the median organ transplant survival rate is approximately nine years. Chronic rejection ends-up being the outcome of almost all patients, resulting in serious health complications associated.







# POLITICS ECONOMICS NATIONS COMPETITIONS





# POLITICS / ECONOMICS /NATIONS

## COMPETITIONS

### END HOMELESSNESS

\$10 MILLION

#### GRAND CHALLENGE

There are 100 million people are homeless worldwide according to the United Nations global survey (with 500 thousand of these living in the USA).





# POLITICS / ECONOMICS /NATIONS

## COMPETITIONS

### END LONELINESS

\$10 MILLION

#### GRAND CHALLENGE

The recent data reports that in the most advanced country in the world, the United States, almost three-quarters of Americans experience loneliness. Chronic Loneliness is already know for being a modern-day epidemic. Social interaction and happiness have been proven to be related with life extension, and loneliness is a serious risk factor for human health and human longevity.





# POLITICS / ECONOMICS /NATIONS

## COMPETITIONS

### UNIVERSAL BASIC INCOME

\$10 MILLION

#### GRAND CHALLENGE

Universal basic income might be the proper solution for technological unemployment. And might be a tool for helping people around the globe finding purposefulness in their lives, releasing people from the requirement of getting a job they don't like for survival, and for paying the monthly bills. Universal basic income has also been recently proven to improve the worldwide economy.





# POLITICS / ECONOMICS /NATIONS

## COMPETITIONS

### NEW MONEY SYSTEM

\$10 MILLION

#### GRAND CHALLENGE

This prize aims to stimulate the shift for a decentralised money system. There are several current approach to crypto-coins. This prize aims to stimulate this global challenge to the point where the first country which totally adopts the use of a system which is not controlled by central governments.





# POLITICS / ECONOMICS /NATIONS

## COMPETITIONS

### CRIPTOCURRENCIES

\$10 MILLION

#### GRAND CHALLENGE

Sem descritivo\*\*\*





# POLITICS / ECONOMICS /NATIONS

## COMPETITIONS

### OCEAN CONDOMINIUM

\$10 MILLION

#### GRAND CHALLENGE

The OCEAN CONDOMINIUM WORLDPRIZE is a global competition designed to inspire entrepreneurs, engineers, and scientists worldwide to develop a condominium in open international waters.





# POLITICS / ECONOMICS /NATIONS

## COMPETITIONS

### OCEAN CITY

\$10 MILLION

#### GRAND CHALLENGE

The \$1Million Ocean City WORLDPRIZE is a global competition designed to inspire entrepreneurs, engineers, and scientists worldwide to develop a city in open international waters.





# POLITICS / ECONOMICS /NATIONS

## COMPETITIONS

### OCEAN COUNTRY

\$10 MILLION

#### GRAND CHALLENGE

The \$1Million Ocean City WORLDPRIZE is a global competition designed to inspire entrepreneurs, engineers, and scientists worldwide to develop a country in open waters.





# POLITICS / ECONOMICS /NATIONS

## COMPETITIONS

### SPECIAL DEMOCRACY

\$10 MILLION

#### GRAND CHALLENGE

The SPECIAL DEMOCRACY PRIZE is a global competition designed to inspire entrepreneurs, engineers, and scientists worldwide to develop a NEW BETTER DEMOCRACY SYSTEM with less than 1% corruption and with high ethic and quality of life for everyone.







# LEARNING EDUCATION COMPETITIONS





# LEARNING / EDUCATION

## COMPETITIONS

### UNIVERSAL EDUCATION ACCESS

\$10 MILLION

#### GRAND CHALLENGE

Universal access to education is NOT a reality in 2017. Our conventional educational systems will also not solve this problem. The educational space is ripe for disruption. We want a method that allows everyone (with access to technology, such as a mobile phone), to have primary education in a fun and appealing way.





# LEARNING / EDUCATION

## COMPETITIONS

### PROFESSIONAL EDUCATION SHIFT

\$10 MILLION

#### GRAND CHALLENGE

Today if someone want to change from one are to another, has to go thought a University system to get a new diploma or degree. We are looking for a method, using for example online learning from the TOP universities in the world, such as MIT, or Harvard, which rapidly allows someone to gain new skills and get a new University degree, quickly, with a cost under one thousand dollars.





# LEARNING / EDUCATION

## COMPETITIONS

### UNIVERSAL BASIC EDUCATION

\$10 MILLION

#### GRAND CHALLENGE

The UNIVERSAL BASIC EDUCATION WORLDPRIZE is a competition for teams to develop software for mobile devices that result in the a system which provides universal basic education for everyone on the planet. Million of adults in the most developed countries on earth (including Europe and the USA) still do not have basic education skills. The benefits of a proper basic education (reading and basic mathematical skills) are extremely important, and are highly related with improvements in personal health, economic security, and increased social and civic participation. Million of children around the world cannot read, write or have elementary arithmetic skills. Many of these children live in developing countries and do not have regular access to quality schools or teachers. In fact, UNESCO estimated that the world would need almost two million more teachers globally something which is not viable given the reduced natality rate. While there are programs today to build schools and train teachers, traditional models of education are not able to scale fast enough to meet demand. A radically new strategy is necessary. A strategy that eliminates the current necessity to a large investment in infrastructures and a strategy that do not depend on humans to provide education, the solution has to be scalable and has to provide anyone on the globe access to it, regardless of its location of social and economic status.





# LEARNING / EDUCATION

## COMPETITIONS

### TRANSVERSAL SKILLS

\$10 MILLION

#### GRAND CHALLENGE

The current world's workforce has significant skills gap for success in the workplace. those skills include capacity for human-to-human communication, good teamwork skills, collaboration, adaptability, conflict resolution, problem solving, and critical thinking. Schools do not provide proper training on theses skills and students leave universities without have proper skills at this level. Current developed countries universities are not forming students with theses skills for the workplace. The lack of "transversal skills" for the workplace among developed workers is a Challenge that must be addressed.





# LEARNING / EDUCATION

## COMPETITIONS

### LEARNING DEVICE

\$10 MILLION

#### GRAND CHALLENGE

Governments in developing countries are using the hundreds of years approach to education, namely to build schools and train qualified teachers. We believe this is not going to solve the problem of education in developing countries. We believe that technology might hold the solution to provide education to all the children living in developing countries. A technology based solution will be scalable, and have an extremely low cost of delivery of learning devices. With the efforts of the largest companies of the world, like facebook, google, or amazon, to provide global free access to internet. We believe that a technology-based strategy will be the appropriated solution for solving education.





# LEARNING / EDUCATION

## COMPETITIONS

### AI PRIZE

\$10 MILLION

### GRAND CHALLENGE

Artificial Intelligence will have a tremendous impact on Education. We are looking for an AI-based system which will use the interface of a human-looking character, or of Marvel-super heroes, which will engage students to learn the basic elementary education, in a fun, gamification is expected to play a role in the process.







# SPACE COMPETITIONS





# SPACE COMPETITIONS

## SPACE ELEVATOR WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

To build a space elevator to bring the cost of sending material to space to a minor fraction of today's cost.





# SPACE COMPETITIONS

## ASTEROID PROTECTION

\$10 MILLION

### GRAND CHALLENGE

Earth is the only habitable planet for humans. In the past dinosaurs have become extinct by the impact of an asteroid. While the likelihood of an asteroid impact on earth with consequences for life on the planet is lucky not high, there have been some relative near misses in the last milleniums, and a future collision could prove devastating for the human race. There are thousands of near-Earth objects circulating in space. Up to date the cataloging efforts worldwide only track a fraction of these dangerous objetcs.





# SPACE COMPETITIONS

## ORBITAL DEBRIS CLEANUP

\$10 MILLION

### GRAND CHALLENGE

Millions of debris are orbiting Earth and might damage satellites or spacecraft. This problem poses a threat both to spacecraft in orbit and to those that need to pass through a gauntlet of debris to reach their intended orbit. This WORLDPRIZES challenges teams to create a low-cost, scalable method for the safe disposal of orbital debris.





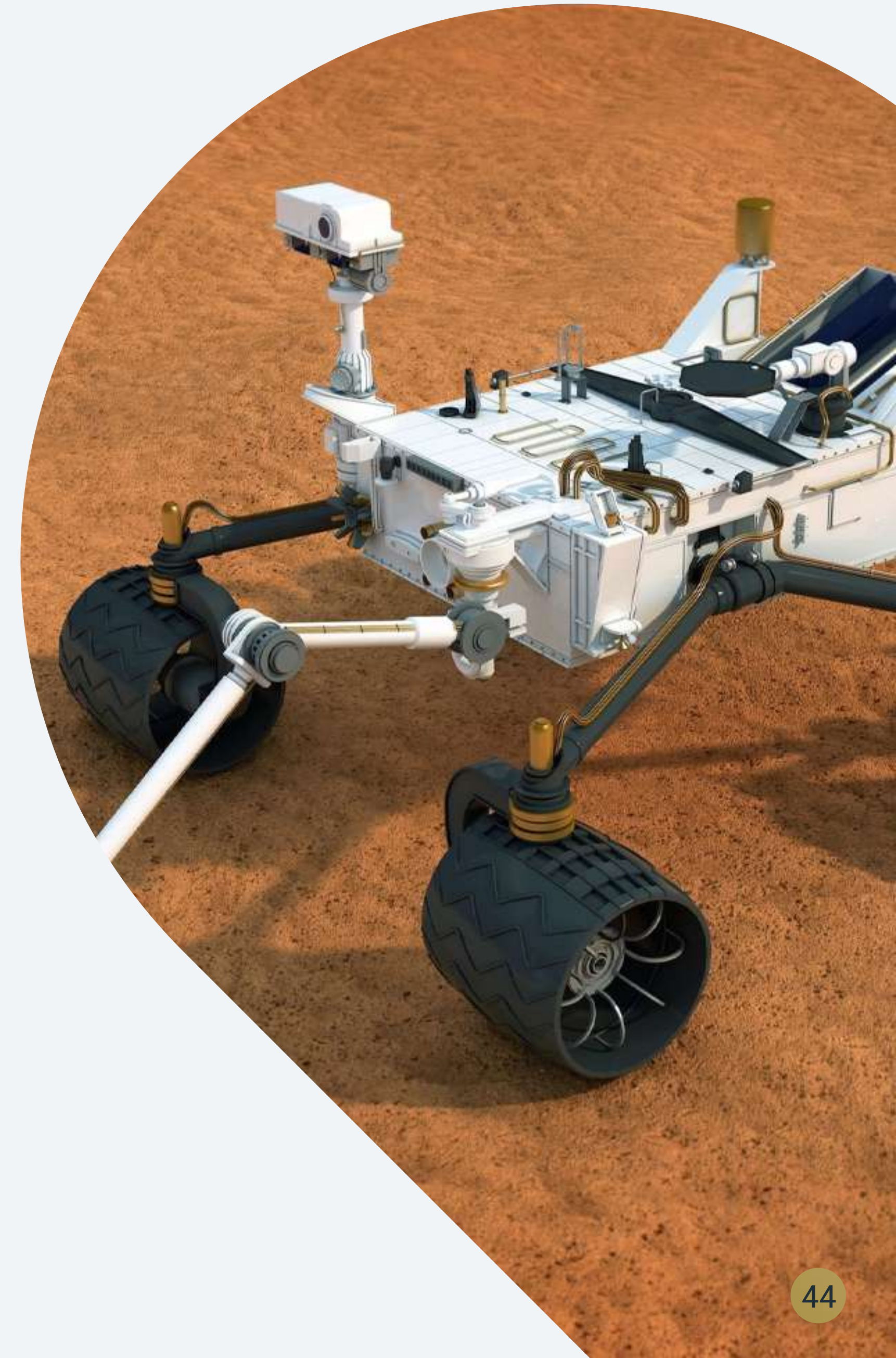
# SPACE COMPETITIONS

## MARS EXPLORATION WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

Until humanity can build artificial habitable satellites, we believe it is essential to take Humanity to colonize others planets and satellites, to safeguard humanity. Mars is our nearest Planet and we must create a way to explore Mars territory.





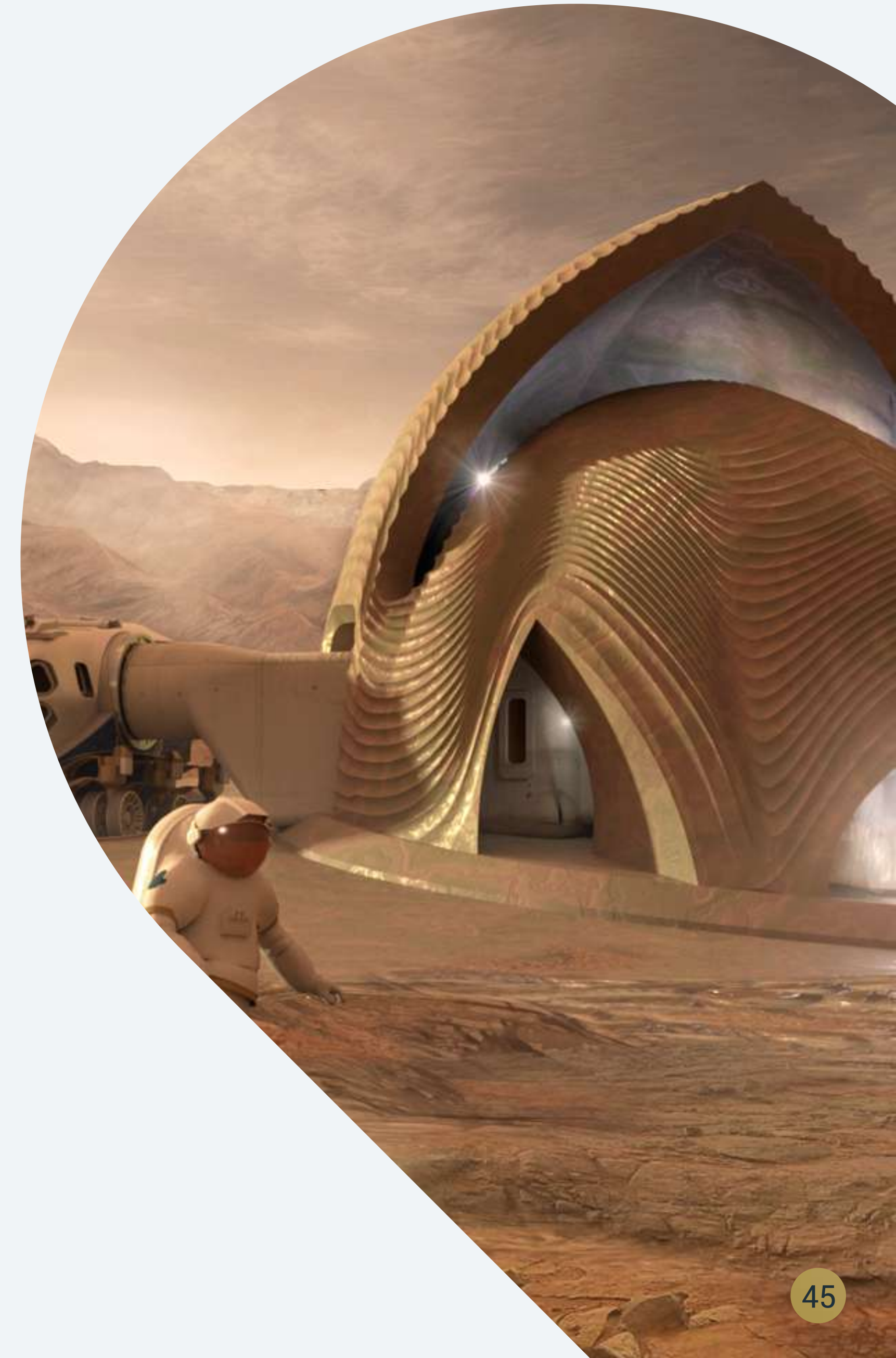
# SPACE COMPETITIONS

## MARS HABITAT WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

Until humanity can build artificial habitable satellites, we believe it is essential to take Humanity to colonize other planets and satellites, to safeguard humanity. Mars is our nearest Planet and we must create a way to create a temporary habitat on Mars (by creating a set of building and basic living conditions on Mars).





# SPACE COMPETITIONS

## MARS COLONY WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

Until humanity can build artificial habitable satellites, we believe it is essential to take Humanity to colonize other planets and satellites, to safeguard humanity. Mars is our nearest Planet and we must create a way to colonize Mars.





# SPACE COMPETITIONS

## MARS WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

Until humanity can build artificial habitable satellites, we believe it is essential to take Humanity to colonize other planets and satellites, to safeguard humanity. Mars is our nearest Planet and we must create a way to colonize Mars.





# SPACE

## COMPETITIONS

### MARS SYNTHETIC BIOLOGY

\$10 MILLION

#### GRAND CHALLENGE

Sem descrição\*\*\*







# TRANSPORTATION COMPETITIONS





# TRANSPORTATION COMPETITIONS

## TELEPRESENCE SYSTEM

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# TRANSPORTATION COMPETITIONS

## MEETING / CONFERENCE PLATFORM

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# TRANSPORTATION COMPETITIONS

## URBAN AERIAL TRANSIT

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# TRANSPORTATION COMPETITIONS

## URBAN CITY TRANSIT

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# TRANSPORTATION

## COMPETITIONS

### LONG DISTANCE TRANSPORTATION

\$10 MILLION

#### GRAND CHALLENGE

Sem descrição\*\*\*







# ENVIRONMENT COMPETITIONS





# ENVIRONMENT

## COMPETITIONS

### AUTOMATED FIRE-PREVENTION AND FIGHTING

\$10 MILLION

#### GRAND CHALLENGE

Sem descrição\*\*\*





# ENVIRONMENT

## COMPETITIONS

### AUTOMATED TREES PLATATION SYSTEM / REFORESTATION

\$10 MILLION

#### GRAND CHALLENGE

Sem descrição\*\*\*





# ENVIRONMENT

## COMPETITIONS

### CARBON REDUCTION

\$10 MILLION

#### GRAND CHALLENGE

Sem descrição\*\*\*





# ENVIRONMENT

## COMPETITIONS

### AIR POLLUTION

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# ENVIRONMENT

## COMPETITIONS

### WEATHER CONTROL

\$10 MILLION

#### GRAND CHALLENGE

Sem descrição\*\*\*





# ENVIRONMENT COMPETITIONS

## WASTE WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*







# **WATER OCEANS** COMPETITIONS





# **WATER / OCEANS**

## COMPETITIONS

### **GENETIC MAPPING OF OCEAN SPECIES AND DIVERSITY**

\$10 MILLION

#### **GRAND CHALLENGE**

Sem descrição\*\*\*





# **WATER / OCEANS**

## COMPETITIONS

### **ECOSYSTEM OCEANIC MAPPING**

\$10 MILLION

#### **GRAND CHALLENGE**

Sem descrição\*\*\*





# **WATER / OCEANS**

## COMPETITIONS

### **AQUAPONICS WORLDPRIZE**

\$10 MILLION

#### **GRAND CHALLENGE**

Sem descrição\*\*\*





# **WATER / OCEANS**

## COMPETITIONS

### **PLASTIC DERBIS REDUCTION**

\$10 MILLION

#### **GRAND CHALLENGE**

Sem descrição\*\*\*





# **WATER / OCEANS**

## COMPETITIONS

### **OIL REMOVAL FROM OCEANS**

\$10 MILLION

#### **GRAND CHALLENGE**

Sem descrição\*\*\*







# CINEMA INSPIRED COMPETITIONS





# CINEMA – INSPIRED COMPETITIONS

## MIND OVER COMPUTER WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





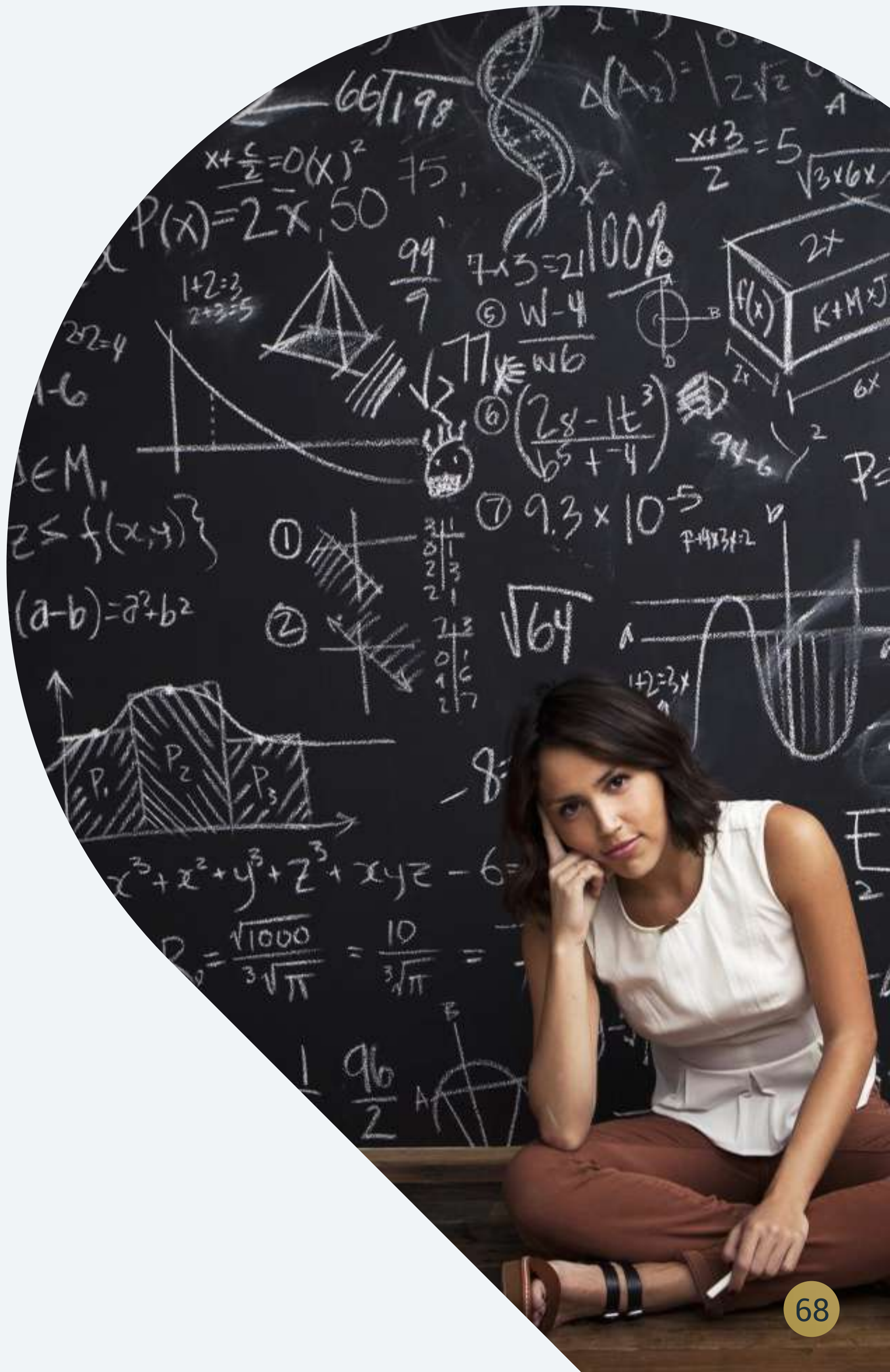
# CINEMA – INSPIRED COMPETITIONS

## MIND OVER MATTER WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# CINEMA – INSPIRED COMPETITIONS

## MIND OVER MATTER WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# CINEMA – INSPIRED

## COMPETITIONS

### INTERPLANETARY INTERNET

\$10 MILLION

#### GRAND CHALLENGE

Sem descrição\*\*\*





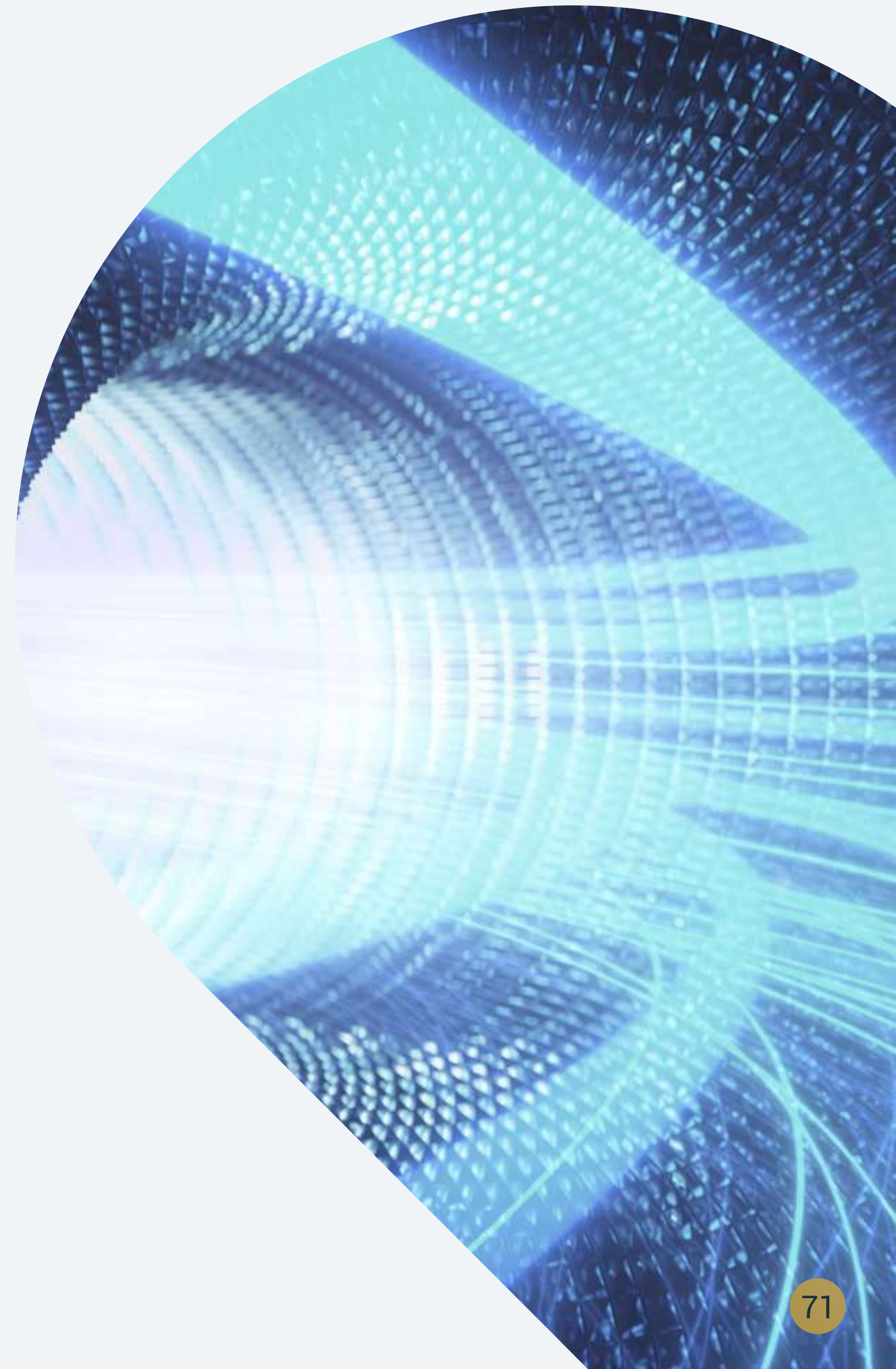
# CINEMA – INSPIRED COMPETITIONS

## QUANTUM (QUANTIC) INTERNET

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# CINEMA – INSPIRED

## COMPETITIONS

### SELF-REPLICATING SYSTEMS

\$10 MILLION

#### GRAND CHALLENGE

Sem descrição\*\*\*







# PERSONAL LIFE COMPETITIONS



# PERSONAL LIFE

## COMPETITIONS

### MODULAR AFFORDABLE HOUSING

\$10 MILLION

#### GRAND CHALLENGE

Sem descrição\*\*\*





# PERSONAL LIFE COMPETITIONS

## SMART CITIES

\$10 MILLION

## GRAND CHALLENGE

Sem descrição\*\*\*





# PERSONAL LIFE COMPETITIONS

## FUTURE OD E-COMMERCE AND RETAIL

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# PERSONAL LIFE COMPETITIONS

## AUGMENTED REALITY AND VIRTUAL REALITY AND HOLOGRAPHY TECHNOLOGY

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# PERSONAL LIFE COMPETITIONS

## ANIMAL ADOPTION

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*







# ENERGY COMPETITIONS





# ENERGY

## COMPETITIONS

### OFF-GRID SOLAR LOCALISED ENERGY

\$10 MILLION

#### GRAND CHALLENGE

Sem descrição\*\*\*





# ENERGY COMPETITIONS

## AFRICA-SOLAR ENERGY WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# ENERGY COMPETITIONS

## WIRELESS POWER TRANSMISSION

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# ENERGY COMPETITIONS

## FUSION ENERGY

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# ENERGY

## COMPETITIONS

### RENEWABLE ENERGY STORAGE AND DISTRIBUTION

\$10 MILLION

#### GRAND CHALLENGE

Sem descrição\*\*\*







# COMMUNICATION COMPETITIONS





# COMMUNICATION COMPETITIONS

## GOOD NEWS NETWORK

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*







# GLOBAL DEVELOPEMENT COMPETITIONS





# GLOBAL DEVELOPEMENT COMPETITIONS

## INNOVATIVE HOUSING

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# GLOBAL DEVELOPEMENT COMPETITIONS

## GLOBAL FOOD & NUTRITION

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# GLOBAL DEVELOPEMENT

## COMPETITIONS

### WATER ABUNDANCE

\$10 MILLION

#### GRAND CHALLENGE

Sem descrição\*\*\*





# GLOBAL DEVELOPEMENT COMPETITIONS

## MICRONUTRIENTS DEFICIENCY

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# GLOBAL DEVELOPEMENT COMPETITIONS

## COMPLETELY AUTOMATED FARM

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# GLOBAL DEVELOPEMENT COMPETITIONS

## WOMEN'S SAFETY

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# GLOBAL DEVELOPEMENT COMPETITIONS

## END LONELINESS

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# GLOBAL DEVELOPEMENT

## COMPETITIONS

### FINANCIAL INCLUSION

\$10 MILLION

#### GRAND CHALLENGE

Sem descrição\*\*\*







# SECURITY COMPETITIONS





# SECURITY COMPETITIONS

## MIND-INTERFERING TERRORISM

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# SECURITY COMPETITIONS

## BIOTERRORISM

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# SECURITY COMPETITIONS

## CYBERSECURITY

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# SECURITY COMPETITIONS

## LIE DETECTOR

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# SECURITY COMPETITIONS

## SECURITY SCREENING

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# SECURITY COMPETITIONS

## EARTHQUAKE PREDITION

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# SECURITY COMPETITIONS

## TORNADO PREDICTION

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*







# OTHER COMPETITIONS



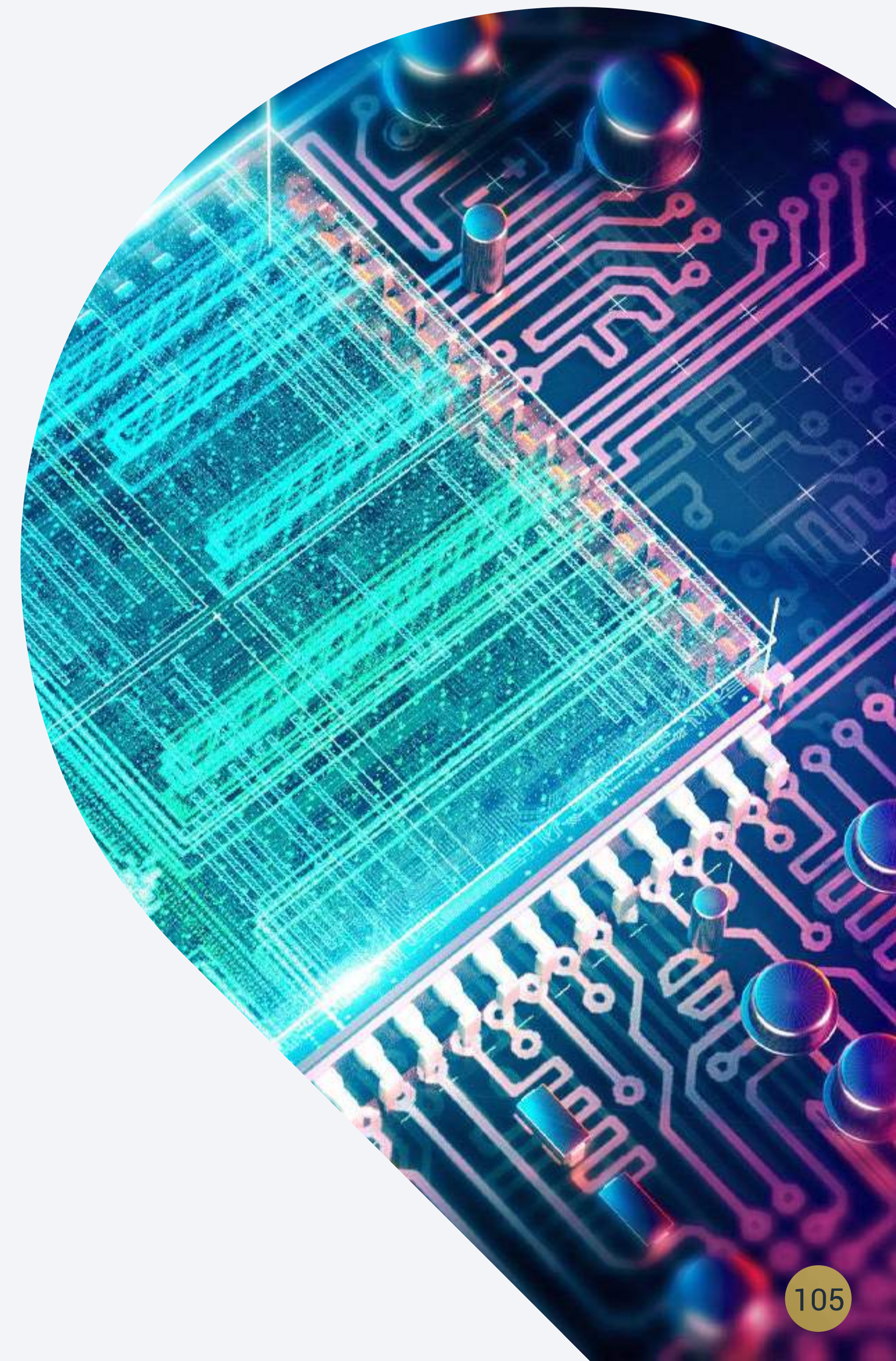
# OTHER COMPETITIONS

## QUANTUM COMPUTING

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# OTHER COMPETITIONS

## NON VON-NEUMAN COMPUTING

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# OTHER COMPETITIONS

## GENOMICS AND EPIGENEMICS (CRISP AND GENE EDITING)

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# OTHER COMPETITIONS

## FRUITFLY BRAIN-SCANNING WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# OTHER COMPETITIONS

## MOUSA BRAIN-SCANNING WORLDPRIZE

\$10 MILLION

### GRAND CHALLENGE

Sem descrição\*\*\*





# OTHER COMPETITIONS

## HUMAN BRAIN SCANNING / MAPPING WORLDPRIZE

\$10 MILLION

GRAND CHALLENGE

Sem descrição\*\*\*







**WORLDPRIZES**  
2020



[www.worldprizes.com](http://www.worldprizes.com)



[fb.com/worldprizes](https://fb.com/worldprizes)



[youtube.com/worldprizes](https://youtube.com/worldprizes)



+1(925)2148763



[info@worldprizes.com](mailto:info@worldprizes.com)

