

PLANET MASTERS

📅 August • 15Th • 2020

📍 Porto • Portugal

A
BETTER
PLACE FOR
EVERYONE



PROGRAM **ONLINE COURSES**

OC (Online Courses) aim to educate, inspire and empower people from all over the world to solve the most difficult problems of the planet. Our goal is to implement solutions to solve the problems on: healthcare, human longevity, education, energy, security, food, water, and many, many, other global problems.

The program provides participants with a clear vision of the world's most crucial problems, and challenges and supports them to find solutions for these massive problems.



INTRODUCTION

In these online programs you can learn **from anywhere in the world.**

We believe an innovative person, a team, a company, or an organization can solve the global grand challenges that humanity is facing today, making the world a better place for everyone. As our ecosystem grows, we are working as hard as humanly possible to connect our community and to promote and nurture collaborative work to solve the global challenges. Join us, and contribute to solve the worlds most urgent problems. By applying to our program, you are taking the first step to join our global community. Let's make the world a better place, for everyone.



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GLOBAL PROBLEMS

During the morning period of the first day of the program, participants will be provided with a good understanding of the most urgent problems of the planet. Participants will hear from world's renown experts, the current situation on these problems and what is being implemented today, as well as the impact that current approaches are having. It is our goal to quantify the problems, provide understanding of their implications, the problems' interdependence, and it is also crucial to connect our participants with the major organisations worldwide approaching these problems.



MODULE ONE

FOOD

The number of children in the world without access to proper nutrition is tremendously high and this is a major cause of illness. Undernourishment, caused by lack of access to food, is caused by political instability, conflict, economic instability, drought, and other causes. Hunger debilitates the human immune system and causes suffering around the world.

WATER

Approximately 1 Billion people around the world still do not have access to potable drinkable water, and approximately 2.3 billion people still do not have access to basic sanitation services. The second leading cause of death of children globally, every year, is the contraction of diarrhoeal diseases, which would be preventable with safe water and sanitation.

POVERTY

Nearly 1 Billion people still live in extreme poverty and earn less than \$2 per day, with a large majority living in South Asia and Sub-Saharan Africa. But, poverty is not restricted to developing countries, with more than 10% of Americans living in poverty. Poverty has a major impact on the health and quality of life of people.

SHELTER

Providing safe shelter for everyone on planet earth would have a tremendous impact on several other global problems, including: health, prosperity, disaster resilience, and security. Approximately 1 Billion people still live in slums, and approximately 100 million live in temporary shelters.

EDUCATION

To change the world we need to improve the access to education and the quality of the education, not just for children but also for adults to learn new skills that empower them to adapt to our rapidly changing world. Education quality is reflected in properly trained teachers, good standard physical infrastructures, updated scholar curriculums that teach relevant skills to today's world.

HEALTH

In developing countries, approximately 400 million people have no access to essential healthcare. In the poorest regions of our planet, there are still people dying from Cholera, Ebola, and global air pollution. On developed countries, on one hand, we are living longer lives, but on the other hand, more than 15 Million people, per year, died of a non-communicable disease, such as, cardiovascular disease, chronic respiratory disease, diabetes, or cancer.

SECURITY

Governments have been responsible for ensuring the security of their citizens, but private organizations are now helping protect individuals from security risks. Emerging technologies are helping protect refugees at war zones, and also minorities facing human tracking or sexual exploitation.

SPACE

The last two decades have witnessed a radical change in the space sector. Two decades ago, governments were the only players in the space industry, but today, emerging space technologies are empowering thousands of private space companies, and even startups, to launch satellites and communications technologies, work on space manufacturing, space mining, space robotics, and other space-related industries.



MODULE ONE

WATER

Approximately 1 Billion people around the world still do not have access to potable drinkable water, and approximately 2.3 billion people still do not have access to basic sanitation services. The second leading cause of death of children globally, every year, is the contraction of diarrhoeal diseases, which would be preventable with safe water and sanitation.

DISASTERS

Humanity has faced numerous disasters, including: war, hurricanes, cyclones, earthquakes, tsunamis, floods, and droughts. Natural disasters, alone, have caused \$3 trillion in damages, considering only 21st century.

Emerging technologies are a power tool to create solutions for preventing, preparing, and responding to disasters.

ENERGY

Approximately one in seven people in the planet today, still lacks access to electricity. As there are more than 7 Billion people in the planet, that means that almost 1 Billion people has no access to electricity today. More precisely the number of people living without electricity dropped to roughly 840 million recently, from one billion in 2016 and 1.2 billion in 2010. So, progress is happening globally, but we have accelerate it.

ENVIRONMENT

Environment related global problems include: global warming, air pollution, biodiversity preservation, preservation of forests, pollution in oceans and water, and many more.

Starting with global warming and air pollution it is fundamental to mention that global warming threatens humanity's survival, and rising temperatures are melting ice caps and rising ocean levels, causing droughts, and floods.



MODULE ONE

MOD ULE TWO

On the second day the participants will learn about some of the most promising emerging technologies, believed to have a potential role on help solving some of the world's most challenging problems.

The participants learn about: Artificial Intelligence & Robotics, Biotechnology, Energy, Medicine & Neuroscience, Nanotechnology, Computing Systems, Space, Digital Fabrication



TECHNOLOGIES

ROBOTICS

You will learn about: robotic applications in transportation, home, medicine, security, internet, entertainment, space, and other areas. In particular you will learn the developments in: humanoid robotics, robotic surgeries, autonomous transportation, home-automation, efficient exploration of space, planning, hardware systems, mobility, human-robot interactions, agricultural robotics, autonomous vehicles, micro-robotics and nano-robotics.

ARTIFICIAL INTELLIGENCE

Artificial intelligence systems, Chatbots, Computer vision, Knowledge representation, neural networks, machine learning, and language recognition.

NANOTECHNOLOGY

You will learn about Nano particles for medical applications, advanced nanorobotic systems on construction and healthcare, Lithography (microfabrication), Carbon nanoparticles, Nanomaterials, Optofluidics, Nanoelectronics, Plasmonics, Nanomanufacturing, Scanning probe microscopy. You will also learn about the long-term future with nanofactories and the emergence of the physical revolution.

BIOTECHNOLOGY

Providing safe shelter for everyone on planet earth would have a tremendous impact on several other global problems, including: health, prosperity, disaster resilience, and security. Approximately 1 Billion people still live in slums, and approximately 100 million live in temporary shelters.



SUPER- COMPUTERS

You will learn about the Silicon limits and the future of Von Neumann computing systems, supercomputers, Petascale and Exascale computing, distributed massively parallel supercomputing, biological computing systems, quantum electronics, DNA based information storage systems, quantum computing. You will also learn about Computing applications in healthcare, finance, and political systems.

NEUROSCIENCE

You will learn about the future of human neuroscience, including: Digital preservation of information, 3D printing or brain tissue, neuroimaging, brain organoids, robotic brain surgeries and the future of neuro-surgery.

MEDICINE

You will learn about the future of medicine, including: nanomedicine, nanorobotics, human enhancement, micro-surgery, post-humans, robotic surgeries, artificial organs, 3D printing of body organs, human enhancement and life extension technologies.

3D PRINTING

You will learn about: 3D printers, the MakerBot, the RepRap, Countour crafting and the 3D printing of houses, 3D printing of food, 3D printing of electronic circuits, 3D printing in the fashion industry, 3D bioprinting.



MOD
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TWO

ENERGY TECHNOLOGIES

You will learn about: Electric Grid 2.0, energy storage technologies. Renewable energy production, including solar, wind, geothermal, biological, nuclear, and other forms of energy. Fuel cells, energy conservation & efficiency. Climate models and strategies. Global carbon and nitrogen cycles.

SPACE TECHNOLOGIES

Space technologies are fundamental for the long-term survival of the human species. You will learn about: space tourism, 3D printing in space, Mining in space, Spaceflight technologies, micro-satellite technologies, propulsion systems, In-space propulsion technologies, space elevators and other nanotechnology-based space applications.

BRAIN COMPUTER INTERFACES

You will learn about: brain-machine interface, Brain-to-Brain interface systems, Brain-computer interface, Neuralink, Brain implants, BrainGate, Electrical brain stimulation, Neural dust, OpenBCI, Optogenetics, micro-electrode arrays.

AUTONOMOUS VEHICLES

You will learn about: autonomous cars, Automatic parking, autonomous transportation systems, Artificial vision, Robo-Taxis, Self-driving trucks, LiDAR sensor technology, unmanned aerial vehicle (UAV), VTOL vehicles, Volocopters, sensors in cars and airplanes, artificial intelligence systems.

MOD
ULE
TWO



PERSONAL TRANSFOR- MATION

During the afternoon period of the first day of the program, participants learn about:
Leadership, Resilience, Mindset, Scalability



MODULE THREE

LEADERSHIP

Leadership is a fundamental skill for guiding the company or organization. In this module you will learn how to effectively communicate, and how important communication is within your company. You will also learn the best practices to improve motivation inside your company and how to stimulate creativity keeping a positive mindset and learning from feedback.

RESILIENCE

Resilience is what helps you cope with stress and hardship. You will learn the importance of resilience and grit and how to have a mental reservoir of strength that supports you carrying through hard-time without falling apart.

MINDSET

You will learn the importance of having a growth mindset, and how to strength you belief of control of your own ability. The right mindset is a crucial piece for success. Together with hard work and persistence, a positive and strong mindset is going to make a tremendous different in your future success.

SCALABILITY

To scale your business you have to understand the importance of building a solid foundation, while keeping your focus on scalable business solutions. You will learn about proper strategic planning associated with the required patience. You will also learn how to delegate and focus on your core strengths.

TRANSVERSAL TOOLS AND METHODOLOGIES

Still on the second day of the problem participants will learn also the transversal components of entrepreneurship and company management, including: entrepreneurship, design thinking, data orientation, forecasting, law and policies, ethics, economy

ENTREPRE- NEURSHIP

You will learn about entrepreneurship and the traits for success. You will learn the best tools for how to improve your self-motivation. You will learn the importance of understanding what you offer, when to take risks, how to improve your Network, and the most important money management skills. You will learn how your passion and mission are critical for success, and the importance of flexibility in a rapidly changing environment.

DESIGN THINKING

Design Thinking is an iterative process to understand the user, providing a solution-based approach to solve problems. Design Thinking will help you developing an understanding your customer, and how to better adequate your products or services. You will learn about improving empathy with the target user, understand the process of questioning the problem, the assumptions, and the implications, and also re-framing the problem in human-centric ways. You will learn about sketching, prototyping, testing, and trying out concepts and ideas.

DATA ORIENTATION

You will learn about the importance of making data oriented decisions. The role of data in a company is to empower you to make decisions based on facts, trends and statistical numbers, not gut-feelings or emotions. Today, business leaders must be able to navigate very noisy environments, and in the process focus only on the right pieces of information, so that they can make the best decisions for growth.

FORECAS- TING

Forecasting can have a major role in driving a company towards success or failure. Timing is crucial in business, specially if you are making technology based products or services. Accurate forecasting will help the company make the right decisions and investments, while keeping prices low and optimising business operation.



MODULE FOUR

LAW AND POLICIES

The rule of law gives everyone a framework for how to act and operate. You will learn the fundamental laws and policies important for your business and you will understand why the rule of law is important to your business.

ECONOMY

In a strong economy, most businesses enjoy great prosperity. You will learn the importance of a strong economy on start-ups and businesses. As your business grows, so your need to keep pace with demand by hiring additional employees, expanding retail space or adding new product lines.

ETHICS

You will learn the importance of socially responsible businesses. Socially responsible businesses win the trust and respect of their customers, and also the society, as well as their employees. In the long run, socially responsible businesses have more sustainable profits. Business ethics debates ethics in the workplace, but also with relation to the environmental, cultural, and social structures of the local communities.



MODULE FOUR

MOD
ULE
FIVE



TRANSFORMATIONAL PRACTICES

(COMPANY LEADERS
ORIENTED CONTENT)

Organisational
Organisations;
Prototyping; Data Science.

Innovation;
Entrepreneurship;
Data Science.

Rapidly growing
Forecasting;



ORGANISATIONAL INNOVATION

You will learn about organizational innovation, including innovative ideas, products, services, technologies, processes, or even strategies. Innovation in your company will save your company money and time, while giving your company a competitive advantage over other companies.

FORECASTING

Forecasting can have a major role in driving a company towards success or failure. Timing is crucial in business, specially if you are making technology based products or services. Accurate forecasting will help the company make the right decisions and investments, while keeping prices low and optimising business operation.

RAPIDLY GROWING ORGANISATIONS

You will learn about some of the most important tools for accelerated growth: Cultura and mission authenticity, the importance of people, Flexibility in uncertain times, the best processes and metrics.



MODULE FIVE



MODULE FIVE

DATA SCIENCE

You will learn about the importance of making data oriented decisions. The role of data in a company is to empower you to make decisions based on facts, trends and statistical numbers, not gut-feelings or emotions. Today, business leaders must be able to navigate very noisy environments, and in the process focus only on the right pieces of information, so that they can make the best decisions for growth.

PROTOTYPING

Prototyping results in a faster and more effective design cycle, allowing your company to test designs in a “real-world” environment. You will learn how prototyping makes it is easier to identify potential problems and prevent long-term costly mistakes.

EVENT VENUE

PORTUGAL

Portugal was recently considered, by the World Travel Awards, the World's Best Destination. Portugal history and culture, gastronomy and wines, are among the main attractions, not to mention the beaches, surfing, music festivals, golf, the varied landscapes and, above all, the Portuguese people, who are seen as affable, open and sincere.

AIRPORT

Francisco Sá Carneiro Airport (IATA: OPO, ICAO: LPPR) or simply Porto Airport is an international airport near Porto (Oporto), Portugal. It is located 11 km (6.8 mi) northwest of the centre of Porto, in the municipalities of Maia, Matosinhos and Vila do Conde.

SPEAKERS

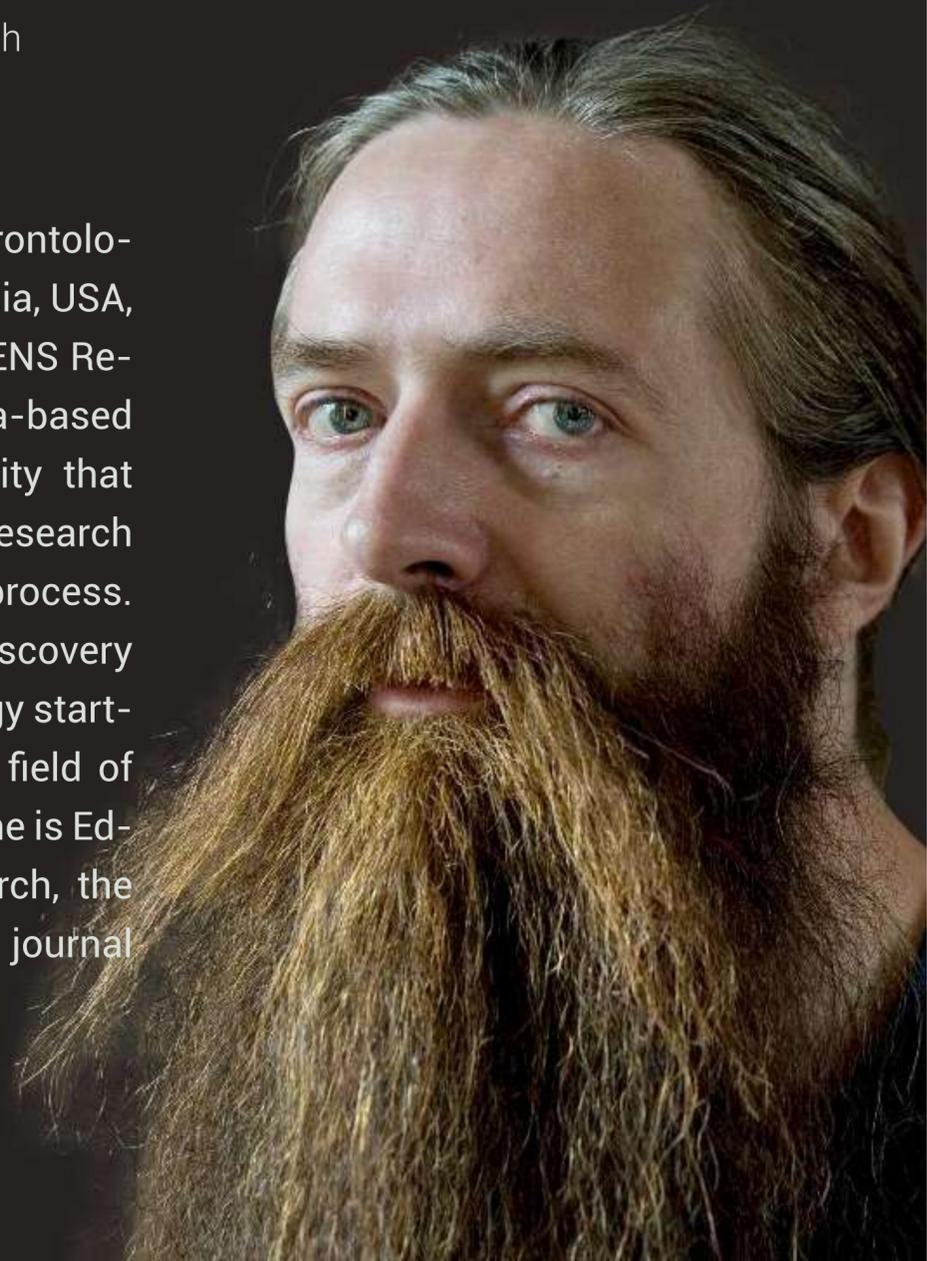
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LIFE-SPAN

AUBREY DE GREY, PH.D.

Chief science officer of sens research foundation.

Dr. Aubrey de Grey is a biomedical gerontologist based in Mountain View, California, USA, and is the Chief Science Officer of SENS Research Foundation, a California-based 501(c)(3) biomedical research charity that performs and funds laboratory research dedicated to combating the aging process. He is also VP of New Technology Discovery at AgeX Therapeutics, a biotechnology start-up developing new therapies in the field of biomedical gerontology. In addition, he is Editor-in-Chief of Rejuvenation Research, the world's highest-impact peerreviewed journal focused on intervention in aging.



DAVID S. CHEN, PH.D.

CEO, Summit Bridge Group Inc.

Dr. David S. Chen started his career in 1984 with General Motors Research Laboratory in Michigan, developing AI computer software for manufacturing automation. From 1994 to 2004, he worked for GM in China, where he played a key role in areas of joint venture negotiations, merge/acquisition projects, product portfolio planning and development, and joint venture management. From 2004 to April 2011, Dr. Chen, as Vice President of GM China and General Manager of GM Beijing Operations, had the responsibility for public policy, government affairs, and corporate social responsibility for GM in China.



REPRESENTED ORGANIZATIONS



CHANGE THE WORLD

TICKET OPTIONS



€1230 ALL
MODULES

✓ **Module 1**
Urgent problems on the planet

✓ **Module 2**
Emerging Technologies

✓ **Module 3**
Personal Transformation

✓ **Module 4**
Transversal Tools and Methodologies

✓ **Module 5**
Transformational Practices (company leaders
oriented Content)

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CONTACT US

 www.planetmasters.net

 +1(925)2148763

 info@planetmasters.net

 fb.com/planetmasters

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