

Translated from Chinese to English

# The final of the 2020 2nd Tsinghua University "SDG Open Innovation Marathon Challenge" was successfully held!

[Tsinghua x-lab](#)

**Tsinghua Welch Allyn arena  
Unprecedented innovation challenge  
Peak showdown with full firepower**

***New solutions, new services, new formats, new models  
All on stage***

**Promote sustainable development  
Burst of youthful vitality  
Detonate a double-creation frenzy**

On November 29, 2020, the final of the 2nd Tsinghua University SDG Open Innovation Marathon Challenge was held in the lecture hall of Tsinghua University Weilun Building. After 100 days of preliminary preparation, the competition attracted more than 1,800 innovation challengers to sign up, and more than 100 senior tutors helped guide them, stimulating students' unlimited creativity and passion for innovation.

Prior to this, **20 innovative challengers from the 20 sub-courts fought for 24 hours in the Open Innovation Marathon Challenge. A total of 20 teams stood out and successfully advanced.** At the finals, what kind of brilliant ideas did they bring to sustainable development?



Group photo of guests, judges and contestants

After 3 hours of fierce competition, in the **end** , the **innovative Hack 1 point game-flexible city algorithm** became the biggest winner and won the gold award and the most international potential award.



Match scene

The 2020 2nd Tsinghua University SDG Open Innovation Marathon Challenge event and curriculum are fully upgraded, sponsored by Tsinghua University Innovation and Entrepreneurship Education Coordination Committee, Tsinghua x-lab, Tsinghua University iCenter, Tsinghua University Student Global Competency Development Guidance Center, Tsinghua University Technology Jointly hosted by the Transfer Institute and the Shenzhen International Graduate School of Tsinghua University, the United Nations Institute for Training and Research (UNITAR), the University of Geneva in Switzerland, the Imperial College of Technology in the United Kingdom, and the Singapore University of Technology and Design (SUTD) participated in the activities as international partners and became a school-level large-scale competition Integration, integration of science and education and international innovation activities.



The guest judges listened carefully

The SDG Open Innovation Marathon Challenge **aims to help more young students understand the Sustainable Development Goals, and use this as the goal to better stimulate students' creativity, and to promote the development of students from different schools, departments and backgrounds Open innovation and collaboration.** The students participating in the challenge not only came from Tsinghua University, but also attracted positive responses from hundreds of universities at home and abroad, including Peking University, Renmin University of China, Communication University of China, Beijing Foreign Studies University, Central University of Finance and Economics, Beijing Institute of Fashion Technology, Wuhan University, Students from Shanghai Jiaotong University, Zhejiang University, Shandong University, Sun Yat-sen University, National Taiwan University, Hong Kong University, Imperial College London, Kyoto University, University of Michigan, Paris School of Political Science, Nanyang

Technological University of Singapore, University of Birmingham, University of California and other universities participated in the event. .

On November 28-29, the 24-hour Marathon Innovation Challenge was held at Tsinghua University School of Economics and Management, School of Fine Arts, School of Environment, School of Journalism, School of Aerospace and Aviation, School of Social Sciences, Department of Electronics, Department of Electrical Engineering, Department of Computer, Shenzhen International Graduate School, etc. 20 Each sub-field was launched at the same time, with more than 900 participants showing their strengths, and working together online and offline, focusing on cultural heritage, food packaging, human health, environmental sustainability, energy transformation, aging and disabled health, space art, food The themes of the future design, public health, future lifestyle, safety and privacy, and reshaping education have brought nearly 200 specific innovative solutions to many areas of the Sustainable Development Goals. In addition to the main stadium of Tsinghua headquarters, there is also a Shenzhen branch.





The guest judges listened carefully

Dr. Lei Nuotian, Deputy Director of the International Cooperation Office of the Swiss Embassy in China, Francois Grey, Professor of the University of Geneva and Director of the Geneva-Tsinghua GTI Initiative, Dr. Thomas Maillart, Senior Lecturer in the School of Economics and Management, University of Geneva, Deputy Director of the Academic Affairs Office of Tsinghua University General Coordinator Liu Pei, Deputy Dean of the School of Economics and Management Li Jizhen, International Cooperation and Exchange Office Zhong Ziluan, Deputy Secretary of the Youth League Committee Han Wentao, Director of Tsinghua x-lab Mao Donghui, Director of the Global Competency Development Guidance Center Liao Ying, Tsinghua University Shenzhen International Zuo Jiane, deputy dean of the Graduate School, Ma Lan, deputy dean of the Shenzhen International Graduate School, leaders and teachers of the various sub-fields, and experts in charge of innovation and entrepreneurship education from the university education and business

circles through online and offline In a combined way, observe the wonderful performance of the challenge team and empower SDG's sustainable innovation.



Final scene

The judges of the finals are: Li Jizhen, Associate Dean of School of Economics and Management, Tsinghua University, Wang Yan, Dean of Tsinghua University Institute of Technology Transfer, Jiang Hongbin, Associate Professor of Academy of Fine Arts of Tsinghua University, Xu Luping, Associate Dean of Teaching, School of Aerospace and Aviation, Tsinghua University Wang Biao, Assistant to the General Manager and General Manager of the Innovation Promotion Center of the Holding Co., Ltd., Feng Xin, the founder of Carbon 9 Capital, Zhou Qianjin, the founder and chairman of Beijing Renrenchucai Education Technology Co., Ltd., and the founder of Chucai University, Researcher, Institute of Automation, Chinese Academy of Sciences, Beijing Zeng Yi, director of the Center for Artificial Intelligence Ethics and Sustainable Development of Zhiyuan Artificial Intelligence Research Institute, Luuk Eliens, Chief Commercial Officer of

XNode, and Kapil Kane, Intel China Innovation Director, are experts and scholars from various fields.

The judges will make a comprehensive assessment with reference to multiple indicators such as whether it meets the theme of sustainable development, the degree of demand for the problem, the challenges faced by the application, sustainability, innovation, technology, and on-site performance . Based on the comprehensive scores, judge the performance of the twenty participating teams.



Tsinghua x-lab director Mao Donghui made a review of the competition

Before the start of the game, Tsinghua x-lab director Mao Donghui first reviewed the game with everyone. Teacher Mao introduced that the SDG Open Innovation Marathon Challenge has attracted students from more than 200 universities in 32 countries and regions, including more than 50 overseas universities. In addition to college



students, high school students, junior high school students, Tsinghua teachers, and participants from all walks of life in the society have fully displayed their enthusiasm and enthusiasm in the activities. 20% of the participants this year participated in the SDG Open Innovation Marathon Challenge last year. In the future, the SDG Open Innovation Marathon Challenge will further develop and standardize all aspects of the activity's courseware, operation manuals, activity processes, tools, methodology, etc., and provide them to more universities, enterprises and regions. Together, we will make more Of students walk into such open and innovative marathon activities to learn innovative thinking methods and tools and gain an open and innovative learning experience.



Professor Li Jizhen, Associate Dean of School of Economics and Management, Tsinghua University delivers a speech

Professor Li Jizhen, deputy dean of the School of Economics and Management of Tsinghua University , expressed his gratitude to the organizers, organizers, supporters, staff, mentor team, and participating students in his speech . Teacher Li said that **2020 is a special year. The new crown epidemic is suddenly sweeping the world, and**

sustainable development is more urgent than ever. The second Tsinghua University SDG Open Innovation Marathon Challenge was held as scheduled. Compared with last year, the scale is larger, combined with the United Nations Sustainable Development Goals, and the themes are richer. Looking forward to the best performance of 20 different teams in the finals, more and more ambitious SDG plans in the future will become a reality with the participation and support of multiple parties.



Nikhil Seth, Executive Director of the United Nations Institute for Training and Research, United Nations Assistant Secretary-General, and Chairman of the Geneva-Tsinghua GTI Advisory Committee

Mr. Nikhil Seth, Executive Director of the United Nations Institute for Training and Research, United Nations Assistant Secretary-General, and Chairman of the Geneva-Tsinghua Initiative Advisory Committee, recorded a video speech for the SDG Marathon. He said that the Tsinghua University SDG Open Innovation Marathon Challenge is a very useful action. The United Nations Institute for Training and Research is honored to participate as a partner of the University of Geneva and Tsinghua University. **This is a unique experiential learning journey among thousands of young people. These students, researchers, and industry mentors work together to explore and solve**

some of the social problems we are facing, such as health care, clean energy, issues in areas such as privacy security, environmental protection, and response to emerging global diseases. The United Nations Institute for Training and Research also strongly supports the promotion of the SDG Open Innovation Marathon Challenge in more universities, regions and cities in China, so that more Chinese students, teachers, entrepreneurial teams, and well-known companies will participate in the SDG Open Innovation Marathon Challenge. .



Mr. Lei Nuotian, Deputy Director of the International Cooperation Office of the Swiss Embassy in China, delivered a speech

In his speech, Mr. Renault, deputy director of the International Cooperation Office of the Swiss Embassy in China, said that China and Switzerland formally established diplomatic relations in 1950. In the past 70 years, the two countries have been cooperating around openness and mutual respect, such as free trade and multilateralism. Institutions, strengthen environmental protection, innovation, etc. Sustainable development requires the participation of multiple stakeholders, especially SDG innovators. In this, the school

can play a key role and give full play to the advantages of scientific research capabilities. For example, the close cooperation between Tsinghua University and the University of Geneva is one of the representatives. **Our cooperation is driven by common values to promote exchanges and talent exchange and innovation, help open thinking, let students find specific solutions in limited time, and inspire everyone to devote themselves. In the innovation of sustainable development.**

**Strong hands like clouds, fierce competition**

Innovation challengers fought for the 24-hour marathon innovation challenge, 20 teams successfully advanced, stood on the top of the battle, and competed for "the strongest idea."

The theme of the Hack 3 game is innovation-driven good health. The innovation challenger hopes to reduce the incidence of diseases through technological innovation and improve people's quality of life and happiness. Their entry project is an in vitro diagnostic reagent for precision treatment of lung cancer. During the questioning session of the judges, the innovative challenger introduced the technical characteristics of the project in detail and the technical differences from traditional disease diagnosis and screening.

Among their team members, there is a member of a high school student from Macau who has entrepreneurial and maker experience at a young age. Through online and offline communication, this high school student uses past experience to empower the team.



The themes of the LAGO M MMMMM project team in Hack4 are food waste and unhealthy obesity caused by poor eating habits, as well as environmental pollution caused by food production and life.

Members said that life is sometimes bitter coffee, and sometimes we need sweet tea to warm our hearts. LAGO M MMMMM represents our members. The first M is our team, and the second M is the unlimited possibilities of our team. , Only these all add up to ensure the integrity of the team.















Innovation challenger live display

Teacher's comment, unique insight

**Insightful comments from the judges**

**Collide sparks of wisdom and creativity**









Wonderful comments from the judges

Mentor representative, give a speech.





The lecturer speaks on behalf of Mr. Qu Wei

The lecturer of Hack9 and the director of the Global Learning Center of Tsinghua University School of Social Sciences, Qu Wei, as the representative of the lecturer, shared the performance of the students and their own feelings in this activity. The SDG Open Innovation Marathon Challenge allows students from all over the country and abroad to express their insights and explorations on SDG topics. As an instructor, he and his students spent 24 hours of unforgettable time and learned from brother departments A lot of knowledge. I very much look forward to letting everyone understand the Sustainable Development Goals through the contest, and let everyone know that the Sustainable Development Goals are not mysterious. It lies in every behavior of each of us, every organization, and every country. Life is closely related.



Professor Francois Grey of the University of Geneva speaks online

Professor Francois Grey of the University of Geneva gave a speech and announced the 2021 University of Geneva SDG summer training camp awards. Francois Grey said that this year's SDG Open Innovation Marathon Challenge is larger than the previous one. **Three students who meet the corresponding standards will be selected to participate in the SDG summer training camp to be held at the University of Geneva next year** , with certain financial support. One-step scientific research and development. Hope that with the help of university cooperation, young people can participate in the realization of SDG together.





#### On-site guest comments

Liu Pei, Deputy Director of the Academic Affairs Office of Tsinghua University and General Coordinator of the Innovation and Entrepreneurship Education Coordinating Committee, Luuk Eliens, Chief Commercial Officer of XNode Infinite, Kapil Kane, Intel China Innovation Director, Jiang Hongbin, Associate Professor of the Academy of Fine Arts of Tsinghua University, Beijing Zhiyuan Artificial Intelligence Research Institute Zeng Yi, the director of the Center for Artificial Intelligence Ethics and Sustainable Development, and Feng Xin, the founder of Carbon 9 Capital, spoke as representatives of the judges and gave wonderful comments to 20 teams.



Mr. Liu Pei, the deputy director of the Tsinghua Academic Affairs Office, introduced that through watching the two SDG Open Innovation Marathon Challenges, the biggest feelings were three points. First, the sharp increase in the number of participants shows that the epidemic has not affected the enthusiasm of innovation challengers for online and offline participation, and fully demonstrates the recognition of SDG concepts by young students. Through the fierce competition for the golden 24-hour period, the innovation challenger has challenged the limits of brain, psychology and physiology. Second, it reflects the attitude of young people in life, willing to devote their energy and time to very valuable things. Third, innovation challengers have achieved progress from zero to one, and young people should carry out the SDG concept and work together to make this thing longer and more valuable.

Associate Professor Jiang Hongbin of the Academy of Fine Arts of Tsinghua University introduced that it is the second time that he has participated in the evaluation work. The outstanding feature of this year's SDG competition is that it has wide dimensions and is more innovative. Innovation is not something that can be achieved overnight. An interface should be created. This interface is for teachers, classmates, and classmates to improve together. If such marathon challenges are stretched longer in the future, the scope of innovation may be more precise and more ideas. Penetration, the interface is even better!

Feng Xin, the founder of Carbon 9 Capital, commented on the project team from the perspective of investors. First, technological innovation is very important for innovation, but technological innovation alone is not enough. Second, young people should spend more time reading biographies of entrepreneurs, studying the growth path of successful people, and exercising leadership and dealing with others. Third, from the perspective of the venture capital industry, students should still consider commercial applications in their technological innovation projects.

The schedule entered an exciting award-giving session. Li Jizhen, deputy dean of the School of Economics and Management, issued a summary of the judges and announced the results of the competition. Young talents who are full of vigor and enthusiasm for sustainable development have demonstrated eye-opening creativity and design on the SDG stage, and at the same time demonstrated the innovative spirit of university students, and also closely echoed the sustainable development goals. , Leaving a wonderful and infinite innovative program.

Award ceremony, youthful

### Gold Award Hack1 Elastic City Algorithm



**Most Socially Significant Award**

**Hack7 Agricultural waste biomass energy utilization system based on mobile base stations**

**Hack14 Water to Disease**



**The most technological innovation award**

**Hack3 Accurate in vitro detection reagents for lung cancer**

**Hack17 Anxin Technology**

**Most Investment Value Award**  
**Hack 12 Experience education's intelligent interactive learning system**  
**Hack 17 Anxin Technology**



**Most International Potential Award**  
**Hack1 Elastic City Algorithm**  
**Hack9 SDGs Evaluation Compass**





## Best Presentation Award

Hack11 Comet Energy Link Universal Smart Stardust Management  
Hack13 Quantune Club Space Instrument



## Group photo of all teams participating in the finals and the lecturers



Gold Award winners and members of the Hack1 Resilient City Algorithms team stated in their acceptance speech that six of their team members came from five different countries, made many innovative ideas, put in a lot of effort, and finally perfected the project. Their

goal is to protect themselves and humans so that people will no longer be harmed by natural disasters.

**This stage,**

**Tell the world in the eyes of young people,**

**Explore the future that young people hope,**

***The 2nd 2020 Tsinghua University "SDG Open Innovation Marathon Challenge"***

***ended perfectly!***

**Wonderful ideas take root here**

**Sustainable development is explored and realized here**

**Gather the power of double innovation with love and passion**

***SDG see you next year!***



Text: Xie Wei, Yin Zichun