

SUSTAINABLE GOALS DEVELOPMENT































Tsinghua University Report on Sustainable Development Goals



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INTRODUCTION

In September 2015, the United Nations (UN) Sustainable Development Summit adopted the 2030 Agenda for Sustainable Development. This document, which is the inheritance and upgrading of the "Millennium Development Goals", was agreed upon by 193 member states in New York. Its goal is to ensure that the global development problems in the three dimensions of society, economy and environment are solved by 2030, and human beings turn to the road of sustainable development. The Sustainable Development Goals (SDGs), which includes 17 goals and 169 targets, globally sets the direction for local development and international collaboration and outlines a blueprint for a prosperous and sustainable world.

President Xi Jinping attended the UN Sustainable Development Summit and delivered an important speech at the meeting, announcing that "China solemnly promises to take the post 2015 development agenda as its mission, and work together to promote global development." To guide and promote the implementation of the SDGs in China, China has formulated and issued a series of guidelines and policies to integrate the SDGs with local development, including: issuing China's National Plan on Implementation of the 2030 Agenda for Sustainable Development; the implementation of the SDGs has been embedded in the 13th Five-Year Plan, 14th Five-Year Plan and national medium and long-term development strategy; the "Scheme of Constructing Innovation Demonstration Zone for Implementing the 2030 Agenda in China" was issued, and the Sustainable Development Demonstration Zone was established.

The SDGs are highly compatible with the functions of universities The SDGs are committed to mobilizing the concerted action of multiple subjects to achieve common goals. Colleges and universities, shouldering multiple functions such as talent training, scientific research, social contribution, cultural inheritance and innovation, and

international exchange and collaboration, can provide knowledge and

solutions for the implementation of the SDGs. They can also contribute wisdom to the exploration and construction of a new model of global governance. They are important platforms for serving society, mobilizing and practicing the SDGs. In the process of building a sustainable campus and society, universities have an unshirkable responsibility and should become the wind vane leading the society. Since China's National Plan on Implementation of the 2030 Agenda for Sustainable Development came into effect, Tsinghua University has actively responded to the call of the nation and the UN and made outstanding contributions to promoting the realization of the SDGs on campus, at home and around the world.

Implementation of the SDGs in Tsinghua University has achieved

In 2019 alone, 9.97% of the floor space on campus has been energy-saving retrofitted; 900000 cubic meters of reclaimed water and rainwater are produced and used. In 2020 alone, Tsinghua University opened 2317 courses related to the SDGs, organized 20665 campus events (lectures, workshops, exchanges, and other activities) related to the SDGs, and organized 408 social training projects related to the SDGs with 55557 trainees in total. Tsinghua University carried out 9253 research projects related to the SDGs, obtained 10059 patents related to the SDGs at home and abroad, and achieved 494 scientific and technological achievement transformation related to the SDGs. A total of 49289 news articles were published to publicize and popularize the SDGs related knowledge for the public on the Tsinghua University News. In terms of talent training on the SDGs, Tsinghua University and the University of Geneva jointly set up an all-English dual master's program -- Master of Public Policy for Sustainable Development Goals (MPP-SDG). The first dual master's degree students from MPP-SDG graduated in 2021.

Actively promote the practice of the SDGs in China According to the deployment of the Poverty Alleviation Office of the State Council and the Ministry of Education, Tsinghua University is helping the Nanjian Yi Autonomous County of Dali Prefecture in Yunnan Province. Tsinghua University has carried out solid support work in education, medical treatment, intelligence, industry and other fields. Additionally, it established platforms such as the "Muhua Nanjian Internet School" and "Green Food Base of Tsinghua University" in Nanjian County to help Nanjian out of poverty.

Through the "XuetangX" platform, Tsinghua University opens high-quality online education resources to the entire country and even the world. striving to narrow the "digital divide". As of December 2020, the XuetangX owns 62 million registered users and more than 3000 MOOCs. Tsinghua University also provides services to society through technical consultation, which covers all 17 SDGs.

At the end of 2019, the coronavirus disease (COVID-19) pandemic broke out suddenly. Faced with this serious challenge, Tsinghua University continues to improve the quality and inclusiveness of its education, to accelerate scientific research to combat the COVID-19, and to contribute to putting the global development agenda back on track. Tsinghua University has opened more than 2,200 free courses on its online platform—XuetangX—to the world. It offered 179 "Clone Classes" for domestic universities in regions severely affected by the COVID-19 pandemic; and held online joint job fairs with 126 universities. Many important scientific and technological achievements were obtained, including the structural analysis of the interaction site between the coronavirus and the receptor, the new nucleic acid testing chip kit, COVID-19 pneumonia intelligent auxiliary diagnosis system, and the isolation of high-efficiency anti-COVID-19 antibodies. On April 2, 2020, Tsinghua University established the Vanke School of Public Health to provide strong support for the construction of the national pandemic disease prevention and control and public health emergency response system, as well as to train high-level talents who will lead the development of international public health in the future.

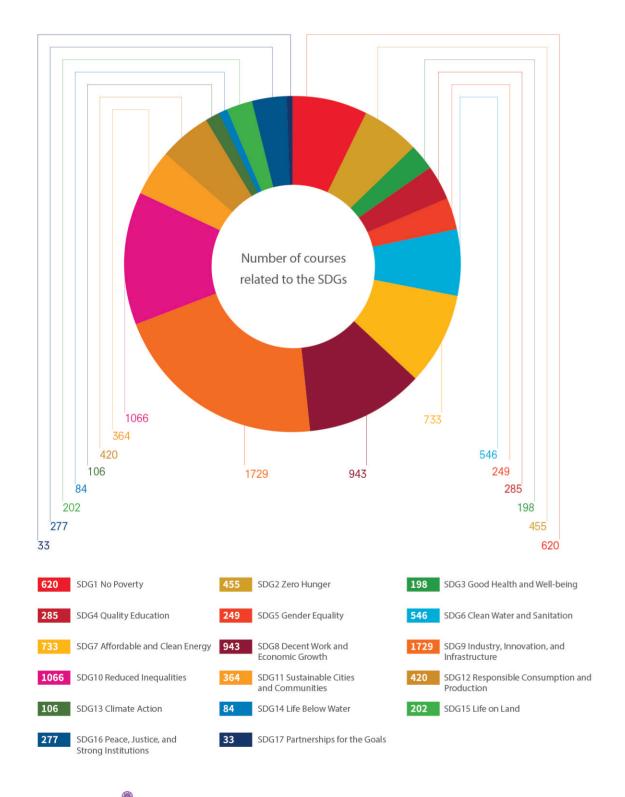
Unite global partners to promote the SDGs

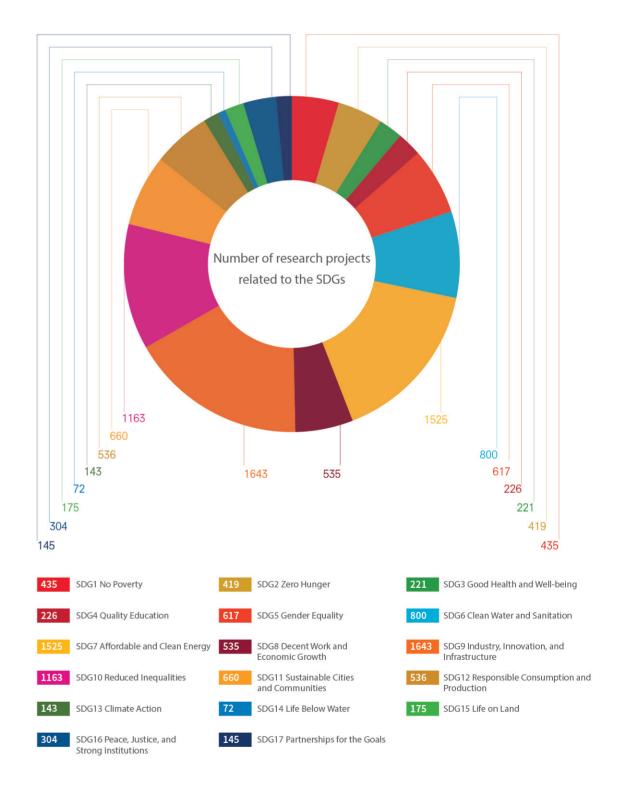
In April 2017, Tsinghua University and more than ten representative universities in Asia jointly established the "Asian University Alliance." In January 2019, Tsinghua University proposed that first-class universities should take historical responsibility and play a leading role in the process of coping with global climate change. In May of the same year, 12 universities from six continents jointly established the "Global Alliance of Universities on Climate (GAUC)" in Tsinghua. In December 2020, the Global MOOC Alliance was established. The Secretariat of the Alliance was set up in Tsinghua University, and Tsinghua University was the inaugural chair of the Alliance. Tsinghua University actively participates in the joint construction of "The Belt and Road Initiative" (BRI), steadily promoting educational and cultural exchanges with all countries along the Belt and Road and related countries, providing talents and intellectual support for the BRI construction. From 2016 to 2020, Tsinghua University signed 349 international cooperation agreements, and the number of official overseas visits and exchanges reached 91581.

Comprehensively and progressively, Tsinghua University actively promotes the construction of sustainable development university, combines its own sustainable development with the future and destiny of the country, and promotes the process of national and global sustainable development. In 2021, Tsinghua University celebrates its 110th anniversary. This report is not only a summary of Tsinghua's past practice of the SDGs, but also a prospect of Tsinghua's future route of promoting the SDGs. We hope that this report can arouse other national and even global colleges and universities to practice the solid action of sustainable development. Let us work together and continue to write a new chapter of global sustainable development!

SDG10

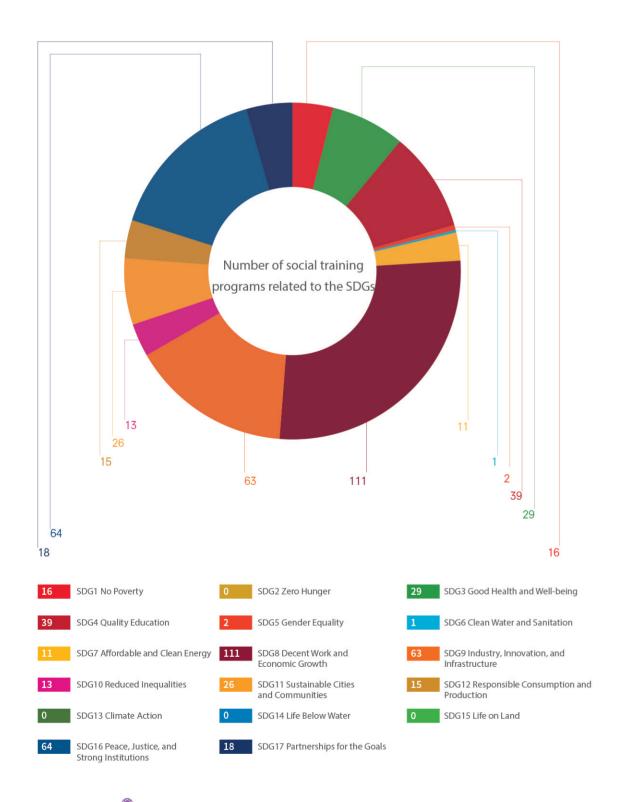
DATA OVERVIEW OF TSINGHUA SDG ACTIONS

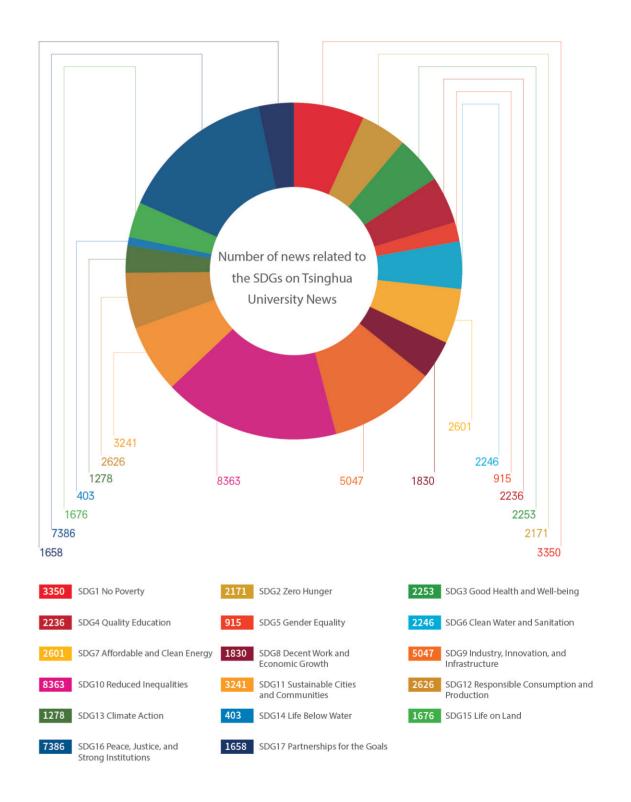




3 INTRODUCTION

DATA OVERVIEW OF TSINGHUA SDG ACTIONS





5 INTRODUCTION

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DATA OVERVIEW OF TSINGHUA SDG ACTIONS

Talent Training (Data Scope:2020)

	_	
01	Courses related to the SDGs	
	Number of undergraduate courses	1151
	Number of graduate courses	1166
02	Degree programs related to the SDGs	
	Number of graduate degree programs	40
03	Campus events for students related to the SDGs	
	Number of campus events (lectures, workshops, exchanges)	20665
	Including: Number of events aimed at developing students 'global competency	1837
04	Education Equity	
	Consolation for students with financial difficulties	≈8000times
	Grants for students with financial difficulties (RMB)	19.372million
	Number of students under difficulty receiving financial aid	3266
05	Gender Equality	
	Percentage of female undergraduates	32.3
	Percentage of female graduates (master's degree)	35.9
	Percentage of female graduates (doctoral degree)	32.2

Scientific Research (Data Scope 2020)



	Outputs and transformation of scientific research related to the SDGs	
	Number of research projects	9253
	Number of publications in Chinese and foreign languages	1572
	Number of patents	10059
	Number of research output transformation	494
2	Research institutes related to the SDGs	
	Number of university affiliated research centers	410
	Number of university-level think tanks	107

Social Contribution (Data Scope: 2020, except "Resources and energy use on campus")



Social training towards public and social practice program towards student	s related to the SDGs
Number of social training programs	408
Number of social training program participants	55557
Number of online courses (MOOC)	129
Number of online courses participants (MOOC)(person-times)	3500660
Percentage of off-campus learners enrolled in online courses (MOOC)	98.9
Number of student team of social practice program	710
Number of student participants in social practice program (person-times)	6070
Resources and energy use on campus	
Total water consumption on campus(m³)	4.516 million
Production and utilization of reclaimed water on campus (m³)	0.9 million

Cultural Inheritance and Innovation (Data Scope: 2020)

Percentage of energy retrofitting floor space to university floor space in 2019

University floor space (m²)



Number of student associations	27
News articles related to the SDGs	
Number of news on Tsinghua University News (Chinese)	41613
Number of news on Tsinghua University News (English)	7676
Conservation of cultural relics related to the SDGs	
Number of protected cultural relics*	120

International Exchange and Collaboration related to the SDGs (Data Scope: 2020)

Number of international conferences	66	
Number of international conference participants	7832	
Number of international agreements (during 2016-2020)	349	
Number of foreign visitors and exchanges (during 2016-2020)	91581	

*Including the fifth batch of national key cultural relics protection units announced by the State Council in 2001 and the 17"Early Architecture of Tsinghua University" projects merged with the existing national key cultural relics protection units; 91 "the first batch of historical buildings in Beijing"; 9 items from "Census of the Cultural Relics and Registration Projects in Haidian District" announced by Beijing Haidian District Culture Committee; and three other representative immovable cultural relics.









Talent Training

Number of undergraduate courses	535
Number of graduate courses	85
Number of graduate degree programs	8
Number of campus events (lectures, workshops, exchanges)	18



Scientific Research

Number of university affiliated research centers	24
Number of publications in Chinese and foreign languages	125
Number of research projects	435



Social Contribution

Number of social training programs	16
Number of social training program participants	2379



Cultural Inheritance and Innovation

1
2879
471

1.2.1 TYPICAL CASE

Construction of a New Financial Support System for Undergraduate Students with Financial Difficulties



nce 1998, Tsinghua University has taken the lead in setting up "Green Channel" among colleges and universities across the country. Students from poor families can apply for temporary loans from Tsinghua University on the spot of registration to complete the registration

Additionally, Tsinghua University docks with student source-based credit loans timely at the spot of the "Green Channel" site. A processing and consulting desk for student source-based credit loans is set up to collect the loan acceptance certificate on site and handle the receipt confirmation to realize the seamless docking of loans from the student source area to Tsinghua University. Not only freshmen can benefit from this policy, but also Tsinghua University will open a "Green Channel" for all students at the start of every school year. Moreover, every year, approximately 300 students apply for temporary loans to register, with a total amount of more than 2 million yuan. The "Green Channel" has greatly eased the economic pressure of students at the start of every

In 2006, Tsinghua University began to establish a new financial aid system for undergraduate students from poor families. "Aimed at helping students, taking needs as the principle, and taking education as the foundation," the new system strengthens the direct responsibility and educational function of Tsinghua University in the work of providing aid for students from poor families. Tsinghua University has increased its capital investment by increasing direct investment and efforts to raise donations from alumni, people from all walks of life and increasing the number of work-study jobs on campus. Finally, the goal of "Two ALLs" is realized, that is, all students with financial difficulties

the results of funding work, to further enrich the connotation of aid, improve the "New Aid System," and promote development aid. Tsinghua University fully understands and pays close attention to the developmental needs of students from poor families and provides developmental assistance for students. Moreover, Tsinghua University strives to help each student achieve personal development, broaden their horizons, and enhance their self-confidence so that they can share resources and opportunities on campus with all students without worries and become well-rounded and useful talents. Tsinghua University strives to realize the following new goal: "Do not let a diligent and talented student lose the opportunity of growth and development because of family financial difficulties."

In the spring semester of 2020, the COVID-19 led to a decline in household income, and some students with financial problems encounter difficulties in online learning at home. Tsinghua University promptly issued the notice on providing special hardship subsidies to students affected by the economic impact caused by the COVID-19. These subsidies help students affected by the COVID-19 solve all kinds of temporary difficulties, such as economic and Internet problems. During the COVID-19 period, 404 undergraduates received subsidies for temporary difficulties or online teaching network expenses, amounting to a total of 725,400 yuan. Tsinghua University continued supporting students under a special hardship situation and achieved the goal of "processing and distributing at any time," sending care and warmth to the students in need of help.

1.2.2 HIGHLIGHT

Counterpart Poverty Alleviation in Nanjian Yi Autonomous County of Yunnan Province

Since April 2013, Tsinghua University has begun providing counterpart assistance to Nanjian Yi Autonomous County of Dali City, Yunnan Province, according to the deployment of the Poverty Alleviation Office of the State Council and the Ministry of Education. Tsinghua University has conducted solid support work in education, medical treatment, intelligence, industry, and other fields for Nanjian. Moreover, Tsinghua University has established platforms, such as "Muhua-Nanjian Internet School" and "Green Food Base of Tsinghua University" in Nanjian County, to fight poverty.



1.2.3 TECHNICAL CONSULTATION "No Poverty"-Related Consulting Projects

For the goal of No Poverty, Tsinghua University has conducted research on the following: the institutional framework and policy system of Rural Revitalization Strategy in Jiangsu Province, the leading role of public culture in Rural Revitalization—taking Chongzhou as an example, the contribution and potential of women in promoting rural revitalization, and the design of policies to improve the water and resource use of major industrial sectors in Asian developing countries.









Talent Training

Number of undergraduate courses	381
Number of graduate courses	74
Number of graduate degree programs	7



Scientific Research

Number of research projects	419
Number of publications in Chinese and foreign languages	116
Number of university affiliated research centers	22



Social Contribution

Number of online courses (MOOC)	12
Number of online courses participants (MOOC) (person-times)	199069
Percentage of off-campus learners enrolled in online courses (MOOC)	98.3

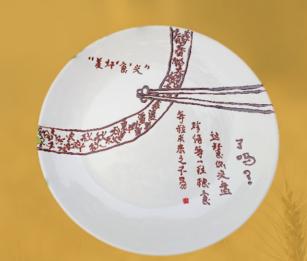


Cultural Inheritance and Innovation

Number of news on Tsinghua University News (Chinese)	1932
Number of news on Tsinghua University News (English)	239



2.2.1 HIGHLIGHT "Clear Your Plate" Campaign



2.2.2 TECHNICAL CONSULTATION **Zero Hunger-Related Consulting Projects**

In response to the goal of Zero Hunger, Tsinghua University conducts research on the walls of Cottage Warehouse No. 4 of the Zhangxin Grain Reserve Phase II Construction Project, the Energy Internet Consultancy Project for the Qinghua Lake Fishery and Light Agro-Industrial Park, the Three-year Development Action Plan for Health Agriculture in Liandu, and the Food Loss and Waste Reduction Creativity Workshop of Swiss Embassy













Talent Training

Number of undergraduate courses	151
Number of graduate courses	47
Number of graduate degree programs	3
Number of campus events (lectures, workshops, exchanges)	48



Scientific Research

Number of research projects	221	
Number of publications in Chinese and foreign languages	62	
Number of patents	303	
Number of research output transformation	33	
Number of university affiliated research centers	13	



Social Contribution

Number of social training programs	29
Number of social training program participants	1355
Number of online courses (MOOC)	5
Number of online courses participants (MOOC) (person-times)	95541
Percentage of off-campus learners enrolled in online courses (MOOC)	98.2



Cultural Inheritance and Innovation

Number of student associations	4
Number of news on Tsinghua University News (Chinese)	1988
Number of news on Tsinghua University News (English)	265



Number of international conferences	3
Number of international conference participants	429



5) / CASES

3.2.1 TYPICAL CASE The Vanke School of Public Health



On April 2, 2020, the Vanke School of Public Health was established at Tsinghua University. The Vanke Group donated all the assets of the Enterprise Share Management Center, that is, 200 million Vanke shares, to the Tsinghua University Education Foundation as a one-off donation o continuously support the construction and development of the lead the development of international public health in the future. The Emeritus Director-General of the World Health Organization, Margaret Chan, is the Inaugural Dean of the School.

urgently needed by the country and are future-oriented. In the next 5 base for high-level public health talents and provide important support for pandemic surveillance and vaccine development. Moreover, the Vanke School will be the most influential think tank for the formulation of major national public health policies. The Vanke transmission mechanisms of infectious diseases, whole-chain health surveillance and early warning, and global systemic public health

public health and wellness discipline. Tsinghua University has formed a

established a good academic reputation worldwide. Considerable faculty members of Tsinghua University have long been involved in management. life sciences, and social sciences for a long time, layin public health discipline, and the foundation for a master's degree in 2014, Tsinghua University has trained 112 leaders of the new Tsinghua University has established partnerships with the Johns School of Public Health, Moreover, Tsinghua University cooperates exchange In terms of academic research. Tsinghua University has maximized its multidisciplinary and comprehensive advantages to promote cross-disciplinary research. It has also made outstanding achievements in epidemiology, pathogenesis, rapid virus detection

3.2.2 HIGHLIGHT 1 "Year-end Wish List" Voluntary Non-remunerated **Blood Donation**

On December 15, 2019, Tsinghua University held the "Year-end Wish List" voluntary non-remunerated blood donation, in which 517 Tsinghua students and staff successfully donated 608 units of blood (each unit = 200 ml), and 64 people successfully donated 96.5 units of component blood (platelets). The total number of blood donations for the year 2019 in Tsinghua University exceeded 3000 and reached 3102 person-times, and the total volume of blood donated reached 3591 units. Since 2002, Tsinghua University has started the work of voluntary non-remunerated blood donation. At the end of 2020, students and staff in Tsinghua University have donated blood approximately 30088 times and the total volume of blood donated reached 35245 units. Tsinghua University has been awarded the China's National Award for promoting voluntary non-remunerated blood donation for six times and consecutively gained the Capital's Advanced Group of Blood Donation for 9 years.

DONATED BLOOD APPROXIMATELY

TOTAL VOLLIME OF BLOOD DONATED

3.2.3 HIGHLIGHT 2 **Nucleic Acid Testing Chip Kit**

The team of Academician Cheng Jing of Tsinghua University, together with West China Hospital of Sichuan University and Boao Biological Group Co., Ltd., jointly designed and developed the "six respiratory virus nucleic acid testing kit" including the COVID-19. This kit provides frontline medical staff and patients with fast, accurate, and effective diagnoses. After the product was approved by the National Medical Products Administration for the COVID-19 emergency medical devices, Tsinghua University urgently provided four sets of testing instruments to Wuhan. Moreover, Tsinghua University donated chips and reagents worth more than 5 million yuan that can complete 12,000 tests, which were put into clinical use in Union Hospital Affiliated to Huazhong University of Science and Technology, Tongji Hospital, Hubei Provincial People's Hospital, and Huoshenshan Hospital.

CHIPS AND REAGENTS FOR DETECTION

3.2.4 TECHNICAL CONSULTATION "Good Health and Well-being"-Related **Consulting Projects**

Aiming at the goal of Good Health and Well-being, Tsinghua University has conducted research on the following: the work model of the Healthy Lifestyle Action of Residents in Qingyang District, the "Healthy Hebei—Health Literacy Promotion Action of Residents; Key Project Implementation Plan of the '13th Five-Year Plan," and the Smart Cabin with health monitoring research plan, among others.











Talent Training

Number of undergraduate courses	245
Number of graduate courses	40
Number of graduate degree programs	5
Consolation for students with financial difficulties	≈8000times
Grants for students with financial difficulties (RMB)	19.372million
Number of students under difficulty receiving financial aid	3266
Number of campus events (lectures, workshops, exchanges)	17120
Including: Number of events aimed at developing students' global competency	1837



Scientific Research

Number of research projects	226
Number of publications in Chinese and foreign languages	162
Number of patents	6
Number of research output transformation	11
Number of university affiliated research centers	46



Social Contribution

Number of social training programs	39
Number of social training program participants	21816



Cultural Inheritance and Innovation

Number of student associations	9
Number of news on Tsinghua University News (Chinese)	1493
Number of news on Tsinghua University News (English)	743



Number of international conferences	16
Number of international conference participants	1890
Number of foreign visitors and exchanges (during 2016-2020)	91581

4 CASES

4.2.1 TYPICAL CASE XuetangX



Tsinghua University is striving to narrow the "digital divide" by opening high-quality online education resources to the entire country and the world. In 2013, XuetangX was officially released, which is China's first MOOC platform and has now become the world's second-largest MOOC platform. During the COVID-19 pandemic, Tsinghua University opened more than 2,200 online XuetangX courses for free to society and helped 18 million teachers and students nationwide carry out online teaching through its self-developed intelligent teaching tool "Rain Classroom."

In April 2020, Tsinghua University released the international version of XuetangX, which brings together good universities, good teachers, and good courses. This version is open to learners worldwide for free, contributing to ensuring inclusive and equitable quality education and lifelong learning opportunities for all. Meanwhile, 451 of the online courses provided by Tsinghua University are related to the SDGs, with a cumulative total of over 3.48 million learners, which effectively promotes the SDGs through the dissemination of the courses.

Tsinghua University released the XuetangX MOOC platform in 2013 and launched the first five online courses. Until December 2020. XuetangX has 62 million registered users and more than 3,000 MOOCs, covering more than 200 countries and regions. Tsinghua University shared over 330 of its own MOOCs on the platform, and 144 of which have been evaluated as national high-quality online open courses.

In addition, Tsinghua University actively conducted online education exchanges and cooperation with international universities and

institutions. Tsinghua University also actively provided global universities with examples of online teaching practices that can be learned from during the COVID-19 pandemic. On April 24, 2020, Tsinghua University and UNESCO jointly launched the Special Dialogue: Online Education in the COVID-19 Response and Beyond with global universities. That is, leaders, experts, and scholars from 21 universities in 15 countries and UNESCO representatives met virtually to discuss the cooperation and development of online education under the spread of the COVID-19; organized 4 "online education and prospects for the COVID-19 and global university online education cloud sharing series activities;" and a total of 56000 representatives from home and abroad watched live broadcast, sharing online educational practice experience with UNESCO and global universities

From December 9 to 11, 2020, the Global MOOC Conference, jointly sponsored by Tsinghua University and the UNESCO Institute for Information Technologies in Education, was successfully held in Tsinghua University. On the evening of the 11, the Global MOOC Alliance (GMA) officially announced its establishment at the main meeting of the conference, and the Beijing Declaration on MOOC Development was released simultaneously. The GMA is co-founded by 17 universities from 14 countries in 6 continents and 3 online education institutions. It aims to work together to meet the opportunities and challenges of COVID-19 in the era of intelligent Internet. The GMA secretariat has been established at Tsinghua University, which serves as the inaugural chair of the GMA. Qiu Yong, President of Tsinghua University, serves as the inaugural chairman of the Alliance

4.2.2 HIGHLIGHT 1 Clone Class

During the COVID-19, Tsinghua University actively undertook social responsibility and opened more than 2,200 MOOCs on XuetangX to the whole society for free. Meanwhile, in the spring semester of 2020, Tsinghua University synchronized 32 courses to six brother universities, including Wuhan University, Huazhong University of Science and Technology, Huazhong Agricultural University, Xinjiang University, Taiyuan University of Technology, and Qinghai University, which benefited 3,380 teachers and students. In addition, 452 teachers from Xinjiang University joined our "Clone Class" of 115 courses to study. In the fall semester, Tsinghua University synchronized seven courses to Hebei University of Technology and Xinjiang University through Rain Classroom "Clone Class," benefiting nearly 300 students and teachers. Then, 153 teachers from Hebei University of Technology and Xinjiang University joined "Clone Class" of 64 courses to study.





4.2.3 HIGHLIGHT 2 **Master of Public Policy for Sustainable Development Goals**

Tsinghua University and the University of Geneva, Switzerland, have jointly formulated the dual master's degree program—Master of Public Policy for Sustainable Development Goals (MPP-SDG) by integrating the strength of both parties, which was officially launched in 2018. The program aims to enhance students' understanding, knowledge, and skills in analyzing and solving problems related to sustainable development. The program also aims to cultivate advanced and inter-disciplinary talents who are committed to sustainable development practice. The program has enrolled 92 master's degree students since its inception. The first batch of dual master's degree students have graduated in 2021.



LZ CASES



4.2.4 HIGHLIGHT 3 Schwarzman Scholars

Designed to prepare young leaders to serve as a bridge between China and the rest of the world, Schwarzman Scholars aims to cultivate students with a global perspective and outstanding leadership to enable them to understand and appreciate different societies and cultures and to aspire them to be future leaders who will contribute to the development of humankind and world peace and make contributions to China and the world.

4.2.5 HIGHLIGHT 4 **Construction of Liberal Arts Education on the SDGs**

Tsinghua University has developed many Liberal Arts education with Tsinghua's characteristics in the fields of environment, energy, and biology in response to significant problems and revolutions faced by human beings. The objectives of the courses are as follows: enrich students' knowledge structure and cultivate their global vision and enhance their ability comprehensively, guide students to understand the law of the development of nature and life, and have a deeper understanding of the meaning and value of life; to hope that students will pay attention to the harmonious development of nature, man, and society, and face the development and challenges standing in front of the human world; to cultivate a conscious awareness of protecting the ecological environment and the concept of sustainable development, and to realize the intermingling of scientific spirit and humanistic care.

4.2.6 TECHNICAL CONSULTATION "Quality Education"-Related Consulting Projects

In response to the goal of Quality Education, Tsinghua University has carried out research work, such as case studies on children's psychological education, the current situation, problems, trends, and breakthrough points of basic education reform and development in Handan. Tsinghua University has also conducted a study on the early education framework of artificial intelligence for SDG4, including global environmental education and leadership project.









Talent Training

Number of undergraduate courses	214
Number of graduate courses	35
Number of graduate degree programs	3
Number of campus events (lectures, workshops, exchanges)	2
Percentage of female undergraduates	32.3
Percentage of female graduates (master's degree)	35.9
Percentage of female graduates (doctoral degree)	32.2



Scientific Research

Number of research projects	617
Number of publications in Chinese and foreign languages	53
Number of university affiliated research centers	9



Social Contribution

Number of social training programs	2
Number of social training program participants	268
Number of online courses (MOOC)	2
Number of online courses participants (MOOC) (person-times)	44778
Percentage of off-campus learners enrolled in online courses (MOOC)	98.8



Cultural Inheritance and Innovation

Number of student associations	1
Number of news on Tsinghua University News (Chinese)	846
Number of news on Tsinghua University News (English)	69



5.2.1 TYPICAL CASE Chen Xu Attends the 9th World Women University **Presidents Forum**

On November 12, 2020, the 9th World Women University President: Forum was held in Xi'an, with the theme of "Global Communion, Civilizational Exchange, and University Innovation," which was conducted online and offline. The discussion focus was on the topics of "Paths to Promote the Exchange and Mutual Understanding of World Civilizations," Promoting the Innovation and Development of Universities," and "Playing the Role of Women and Improving Women's



regional cooperation among universities. Women university presidents are leaders in higher education and contributors to further promoting gender equality and the comprehensive development of women.

As early as 2011, when Chen Xu participated in the fifth World Women University Presidents Forum, she said that "At Tsinghua University, we believe that only by promoting the overall development of the university can we better promote the development of women in the university. To promote gender equality, a clear gender perspective is all. One way we promote gender equality is to downplay gender differences and emphasize common goals and social responsibilities. Therefore, the promotion of gender equality and women's development in the university fundamentally is to promote sustainable and innovative development of the university."

5.2.2 HIGHLIGHT "He For She" China Project

In April 2015, the launch of the "He For She" China project, which is dedicated to global gender equality, was held at Tsinghua University, where nearly 100 students visited the UN Women website to pledge their support for gender equality. The pledge reads, "Gender equality is not just an issue of women, it is a human rights issue that I need to get involved in. I pledge to take action against the violence and discrimination that all women and girls face."















Talent Training

Number of undergraduate courses	463
Number of graduate courses	83
Number of graduate degree programs	3
Number of campus events (lectures, workshops, exchanges)	2



Scientific Research

Number of research projects	800
Number of publications in Chinese and foreign languages	229
Number of patents	382
Number of research output transformation	29
Number of university affiliated research centers	29



Social Contribution

Number of social training programs	1
Number of social training program participants	71
Total water consumption on campus (m³)	4.516 million
Production and utilization of reclaimed water on campus (m³)	0.9 million



Cultural Inheritance and Innovation

Number of student associations	1
Number of news on Tsinghua University News (Chinese)	2119
Number of news on Tsinghua University News (English)	127



Number of international conferences	3
Number of international conference participants	112

62 CASES

6.2.1 HIGHLIGHT 1 **Design of New Ecological Toilet Project** within a Rural Area



6.2.2 HIGHLIGHT 2

The 5th Regional Conference on Membrane **Technology of International Water Association**

The 5th Regional Conference on Membrane Technology of International Water Association, co-sponsored by Tsinghua University, was held in Kunming from August 22 to 24, 2016. The conference set up six major themes, including new membrane technology and configuration, water reuse and resource energy recycle, drinking water treatment and desalination, membrane pollution mechanism and control, municipal/industrial wastewater treatment, and membrane combination process. During the conference, the China Branch of the International Water Association Membrane Technology Professional Committee was established. The objective is to build an exchange platform between Chinese academia and industry and promote the application and development of membrane technology in water treatment in China.





6.2.3 TECHNICAL CONSULTATION "Clean Water and Sanitation"-Related **Consulting Projects**

For the goal of Clean Water and Sanitation, Tsinghua University has carried out research on the following: technical solutions for stable and up-to-standard discharge of sewage treatment in Dafeng, study and design of toilets in construction sites, early warning equipment for breathing rate of sewage treatment plants, and technology for regenerative treatment and utilization of sewage.











Talent Training

Number of undergraduate courses	528
Number of graduate courses	205
Number of graduate degree programs	4



Scientific Research

Number of research projects	1525
Number of publications in Chinese and foreign languages	240
Number of patents	1352
Number of research output transformation	42
Number of university affiliated research centers	67



Social Contribution

Number of social training programs	11	
Number of social training program participants	10958	
Number of online courses (MOOC)	1	
Number of online courses participants (MOOC)(person-times)	29295	
Percentage of off-campus learners enrolled in online courses (MOOC)	99.0	
Percentage of energy retrofitting floor space to university floor space in 2019	9.97	



Cultural Inheritance and Innovation

Number of news on Tsinghua University News (Chinese)	2369
Number of news on Tsinghua University News (English)	232



Number of international conferences	12
Number of international conference participants	1264

7.2.1 TYPICAL CASE Sino-Italian Ecological and Energy Efficient Building

7.2.2 HIGHLIGHT 1 "I-Temperature" Program

Since its establishment in 2015, the "I-Temperature" Program, composed of undergraduates from Tsinghua University, has carried out "take targeted measures in poverty alleviation" research in Xiangxi Tujia and Miao Autonomous Prefecture of Hunan Province, Wugiang County of Hebei Province, Xincai County of Henan Province, Hengfeng County of Jiangxi Province; built 87 water heaters for 13 boarding schools; and solved the problem of deficient hot bath water of nearly 7000 local teachers and students.





7.2.3 HIGHLIGHT 2 "Coal-free" Renovation **Project**



In early November 2017, under the leadership of Tsinghua University and the Haidian District "Coal-free" Working Group, Qinghuayuan Street, in close cooperation with the District Development and Reform Commission, the Environmental Protection Bureau, and other departments, completed the coal-free project for 369 residents in the bungalow area in the Street. This project ends the history of burning coal for heating in Tsinghua University.

7.2.4 TECHNICAL CON-**SULTATION** "Affordable and Clean Energy"-Related Consulting Projects

For the goal of Affordable and Clean Energy, Tsinghua University has carried out the following: technical assistance projects on the technical path and policy research of clean energy heating in urban and rural areas in China; key technology research on the integrated development and application of clean energy building cooling and heating; thematic research on clean energy utilization in demonstration areas; the EU-China Research and Innovation Cooperation Project: Urban Renewable Energy, Energy Efficiency, and Sustainable Energy Solutions.









Talent Training

Number of undergraduate courses	726
Number of graduate courses	217
Number of graduate degree programs	6
Number of campus events (lectures, workshops, exchanges)	6



Scientific Research

Number of research projects	535
Number of publications in Chinese and foreign languages	410
Number of patents	5687
Number of research output transformation	244
Number of university affiliated research centers	30



Social Contribution

Percentage of off-campus learners enrolled in online courses (MOOC)	98.9
Number of online courses participants (MOOC) (person-times)	2439517
Number of online courses (MOOC)	91
Number of social training program participants	5896
Number of social training programs	111

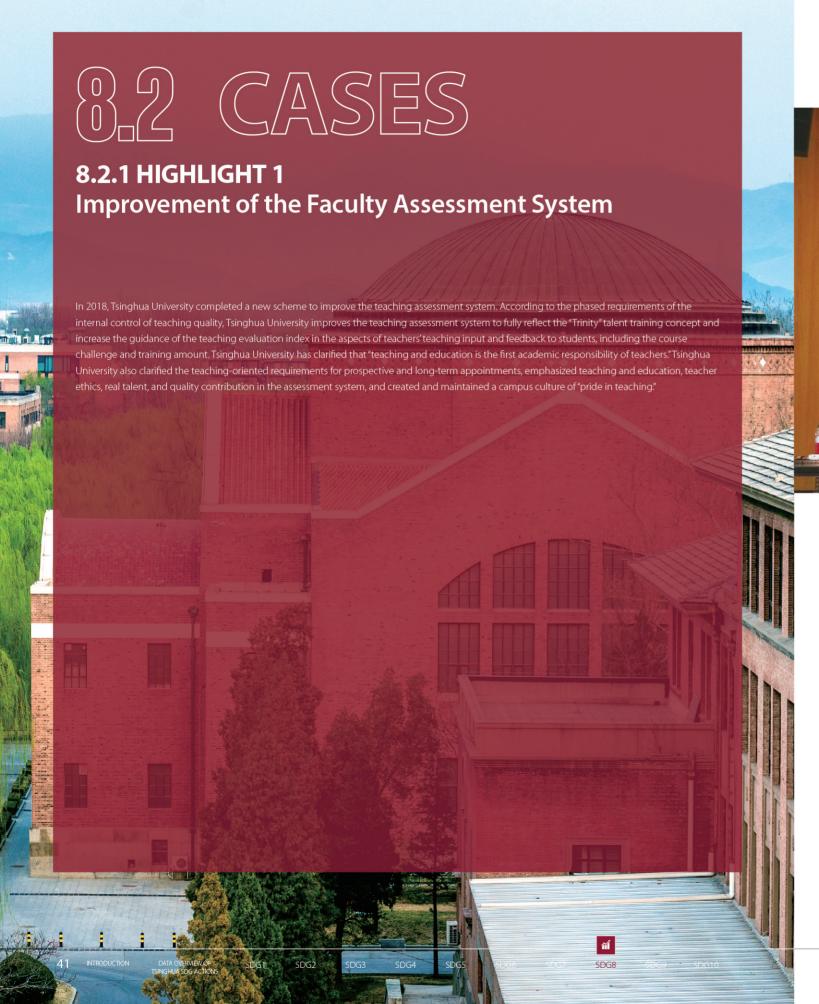


Cultural Inheritance and Innovation

Number of news on Tsinghua University News (Chinese)	863	
Number of news on Tsinghua University News (English)	967	



Number of international conferences	4
Number of international conference participants	1092





8.2.2 HIGHLIGHT 2 Qihang Forum

To meet the practical needs of students for employment information and clear employment direction during the prevention and control of the COVID-19 pandemic, Tsinghua University organized a series of activities online called the "Qihang Forum". Tsinghua University invites academic masters, industry experts, and alumni guests to conduct employment guidance lectures. The objectives are to help students fully understand the current situation of the industry, broaden their employment horizons, cultivate a frontier-oriented vision of employment, establish a correct view of employment and value orientation, and lead them to grasp the pulse of the times and integrate their career pursuit into the wave of development of the motherland. The activity was widely praised by the students



8.2.3 TECHNICAL CONSULTATION "Decent Work and Economic Growth"-Related Consulting Projects

To achieve the goal of Decent Work and Economic Growth, Tsinghua University has conducted research on professional liability risks and mutual insurance products for construction professionals. Moreover, the university has conducted a study on long-term care insurance systems for the elderly in China, demand forecast and financial support analysis for Beijing's subsidized housing during the 13th Five-Year Plan, and a research agreement on China's economic and industrial development.







Talent Training

Number of undergraduate courses	1063
Number of graduate courses	666
Number of graduate degree programs	23
Number of campus events (lectures, workshops, exchanges)	3



Scientific Research

Number of research projects	1643
Number of publications in Chinese and foreign languages	810
Number of patents	1104
Number of research output transformation	86
Number of university affiliated research centers	376



Social Contribution

Number of social training programs	63
Number of social training program participants	2304
University floor space (m²)	2909000
Percentage of energy retrofitting floor space to campus floor space in 2019	9.97



Cultural Inheritance and Innovation

Number of student associations	1
Number of news on Tsinghua University News (Chinese)	3246
Number of news on Tsinghua University News (English)	1801



Number of international conferences	7
Number of international conference participants	1260





9.2.1 TYPICAL CASE The SDG Open Hack



entrepreneurship education; and providing large-scale nterdisciplinary, open, innovative, and challenging learning for the entire university. Nikhil Seth, the Executive Director of the United Nations Institute for Training and Research and Assistant Secretary-General of the UN, said that the SDG Open Hack at Tsinghua

Combined with the SDGs, the first SDG Open Hack designed 13 respectively in the School of Economics and Management, School of Design, School of Journalism and Communication, School of Vehicles and Mobility, Department of Electrical Engineering, School of Social Science, and Tsinghua X-lab. More than 500 students instantly formed innovative solutions in 24 hours for problems related to certain areas of the SDGs.

The second SDG Open Hack held in November 2020 became a university-level innovation and practice education activity sponsored X-lab, the Center for Global Competence Development, Tsinghua Shenzhen International Graduate School, iCenter and Office of Technology Transfer. The second SDG Open Hack set up 20 differen keynote speakers, and 4 or 5 professionals from related fields as the on site to learn the SDG-related objectives and innovation methods, solution to SDG-related problems. Best performance team will be selected from each sub-theme to participate in the finals. The Gold Award and the Most Socially Relevant Award, the Most Technological Innovation Award, the Most Investment Value Award, and the Best Presentation Award will be selected among 20 projects. A total of 1030 students from Tsinghua University and more than 200 universities at home and abroad participated in the second SDG Open Hack as the form of combing online and offline, and 187

The SDG Open Hack is under the topic of "From Idea to Sustainable Impact," aiming to help an increasing number of young students study the SDGs, promote open innovation and collaboration among students from different schools, departments, and backgrounds; and enhance students' leadership creativity action teamwork and global competency, transporting innovative talents for sustainable

9.2.2 HIGHLIGHT **Chunfeng Fund**

On March 4, 2020, Tsinghua University established the "Chunfeng Fund" to support scientific research related to the COVID-19 and help improve the research and construction of China's public health and emergency response system. At the end of 2020, the "Chunfeng Fund" has supported 51 domestic research projects and 12 international cooperation projects. Among them, some achievements in the research and development of the vaccine, clinical diagnosis and treatment, testing technology and products, viral pathogenesis, and epidemiology of the COVID-19 have been applied to the front line of the pandemic. Moreover, several groups have achieved top academic results in biomedical and public policy fields.

Research Projects



9.2.3 TECHNICAL CONSULTATION "Industry, Innovation, and Infrastructure"-**Related Consulting Projects**

With the objective of Industry, Innovation, and Infrastructure, Tsinghua University has conducted research on the following: the index system of new infrastructure competitiveness, the construction and optimization of the future-oriented innovation ecosystem of artificial intelligence industry based on the perspective of intelligent infrastructure, and the knowledge network in university-enterprise cooperation: enhancing the innovation capability of the smart manufacturing industry in China and UK.











Talent Training

Number of undergraduate courses	809	
Number of graduate courses	257	
Number of graduate degree programs	15	
Number of campus events (lectures, workshops, exchanges)	4	



Scientific Research

Number of research projects	1163
Number of publications in Chinese and foreign languages	408
Number of university affiliated research centers	76



Social Contribution

Number of social training programs	13
Number of social training program participants	112
Number of online courses (MOOC)	10
Number of online courses participants (MOOC) (person-times)	266486
Percentage of off-campus learners enrolled in online courses (MOOC)	99.3



Cultural Inheritance and Innovation

Number of news on Tsinghua University News (Chinese)	7505
Number of news on Tsinghua University News (English)	858

10,2 CASES

10.2.1 TYPICAL CASE **Self-improvement Program**

In 2011, Tsinghua University pioneered and implemented the "Self-improvement Program", taking the lead in tilting admission policies for students living in rural areas, remote and impoverished areas, or ethnic areas. This program provides high-quality educational resources for students from poor backgrounds who, are self-improving, and have good morals and talent. In 2019, Tsinghua University focused on the "Three Regions", "Three States," and other deep poverty areas and took the initiative to upgrade the "Self-improvement Program" to self-improvement action. This program promotes that the policy, the publicity, and the training are in place, and actively provides the students from remote, impoverished, and ethnic areas with the opportunity to study at Tsinghua University. In addition to the "Self-improvement Program," Tsinghua University has also created conditions and opportunities for students from remote, poor, and ethnic areas to realize their dreams. Moreover, Tsinghua University admits poor students from rural areas through National Special Plan. Up to 2020, more than 2,700 students from poor rural areas have been admitted to Tsinghua University through the "Self-improvement Program" and the National Special Plan, becoming the "first university student in the family."



2700

dmitted to Tsinghua

In 2020, Tsinghua University offered admissions to 28 provinces under the "Self-improvement Program." A total of 317 rural students from 268 secondary schools across China were awarded preferential admissions through the exams, having an increase of 123 students compared with the previous year. Then, 197 students were eventually admitted to Tsinghua University, having an increase of 91 students compared with the previous year. Among them, a total of 11 students who were awarded preferential admissions under the "Self-improvement Program" still managed to reach the local admissions line of Tsinghua University by virtue of their own efforts and strength

For these outstanding students whose families are poor but self-discipline, Tsinghua University will provide a fair development environment for them after they finish the registration, fully helping them to grow up in Tsinghua University. According to statistics, more than 96% of the students admitted through the "Self-improvement Program" and the National Special Plan from 2012 to 2014 have completed their undergraduate studies. In addition, nearly 70% of them have continued their studies, which is slightly higher than the average of the whole university

10.2.2 HIGHLIGHT 1 Hongyan Program

To enable students with financial difficulty to gain access to higher education, Tsinghua University launched the overseas exchange program named, "Hongyan Program," to support students from poor families in carrying out overseas semester exchange, social practice, and academic exchange. Students from poor families can apply for financial support as long as they have the opportunity to travel abroad. Tsinghua University will provide 80%-100% financial support to students according to the degree of their family's financial difficulties. In 2019, the "Hongyan Program" supported 174 students to carry out semester exchange, summer training, social practice, internship research, and others around the world, with a total amount of 1.899 million yuan.



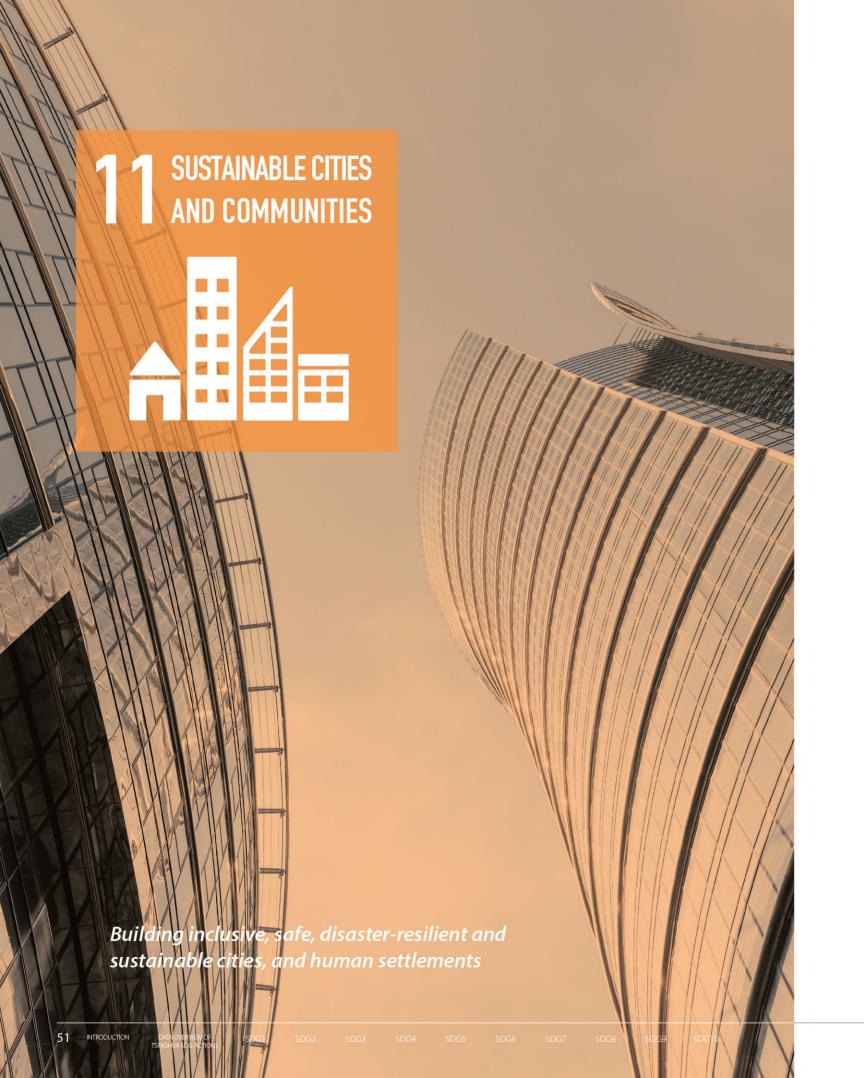


10.2.3 HIGHLIGHT 2 Scholarship and Grants Set up by the Education Foundation

At present, the Education Foundation of Tsinghua University has set up more than 100 scholarships for undergraduates, postgraduates, and doctors with outstanding academic performance and morals to encourage them to continue their studies diligently and become the pillars in the construction of our country as soon as possible. More than 50 grant programs have been set up to cover all students from economically disadvantaged families and subsidize all basic schooling expenses of students from particularly disadvantaged families. Donations from people from all walks of life and alumni constitute an important source of funding for the scholarship system.

10.2.4 TECHNICAL CONSULTATION "Reduced Inequalities"- Related Consulting Projects

In response to the goal of Reduced Inequalities, Tsinghua University has conducted research on methods and approaches to youth career planning education and the construction and application of large-scale knowledge maps for education.









Talent Training

Number of undergraduate courses	312
Number of graduate courses	52
Number of graduate degree programs	3



Scientific Research

Number of research projects	660
Number of publications in Chinese and foreign languages	194
Number of patents	219
Number of research output transformation	10
Number of university affiliated research centers	30



Social Contribution

Number of social training programs	26
Number of social training program participants	1357
Number of online courses (MOOC)	5
Number of online courses participants (MOOC) (person-times)	234563
Percentage of off-campus learners enrolled in online courses (MOOC)	99.4



Cultural Inheritance and Innovation

Number of student associations	1
Number of news on Tsinghua University News (Chinese)	2754
Number of news on Tsinghua University News (English)	487
Number of protected cultural relics	120



Number of international conferences	2
Number of international conference participants	23

11.2.1 TYPICAL CASE **Conservation of Cultural Relics in Tsinghua**

11.2.2 HIGHLIGHT 1 **Renovation of the Second Gate**

As a unique building in Tsinghua University, the Second Gate not only witnessed the historical changes in Tsinghua but also a unique and beautiful landscape in the campus. In early 2018, to better reflect the characteristics of this landmark building, Tsinghua University carried out the repair and renovation project of the Second Gate. Apart from the basic repair and painting work, the project also adopted new nano-technology materials. These materials can effectively prevent dirt and erosion from water, maintain a clean appearance for a longer period, and better show the beautiful style of the Second Gate.



11.2.3 HIGHLIGHT 2 IoT Technology Helps the Green Campus Construction

Tsinghua University actively adopts the new generation of NB-IoT technology and vigorously promotes the landing of smart campus projects. A variety of new intelligent devices, such as smart garbage bins and smart refuse collection points, are deployed in the student community of Tsinghua University, further facilitating the lives of teachers and students, and beautifying the campus.



11.2.4 TECHNICAL CONSULTATION "Sustainable Cities and Communities"-**Related Consulting Projects**

For Sustainable Cities and Communities, Tsinghua University has carried out the following: research on the implementation plan of "waste-free city" in Beijing Economic and Technological Development Zone, the study of urban green landscape planning based on the concept of sponge city, the study of the development strategy of national park in Northwest Yunnan, the case study of mobile application and business model of smart city, and the study of the urban smart community governance system in the context of big data.









Talent Training

Number of undergraduate courses	377	
Number of graduate courses	43	
Number of campus events (lectures, workshops, exchanges)	7	



Scientific Research

Number of research projects	536
Number of publications in Chinese and foreign languages	124
Number of patents	658
Number of research output transformation	24
Number of university affiliated research centers	16



Social Contribution

Number of social training programs	15
Number of social training program participants	763



Cultural Inheritance and Innovation

Number of news on Tsinghua University News (Chinese)	2267
Number of news on Tsinghua University News (English)	359



Number of international conferences	3
Number of international conference participants	390

122 CASES

12.2.1 TYPICAL CASE

Center for Industrial Development and Environmental Governance, Tsinghua University



team and network of scholars. In addition, CIDEG becomes one of the important think tanks in the reform and transformation stage of

environmental grassroots governance, students put forward the

12.2.2 HIGHLIGHT

Research Institute for Environmental Innovation (Suzhou), Tsinghua University

On June 4, 2017, on the arrival of the 46th World Environment Day, Tsinghua University and Suzhou City jointly established the Research Institute for Environmental Innovation (Suzhou), Tsinghua University. The Institute aims to serve the construction of international first-class environmental disciplines of Tsinghua University and Suzhou's "innovation-driven" and "ecological improvement" development strategy. In addition, the Research Institute for Environmental Innovation (Suzhou), Tsinghua University, will be driven by mechanism and system innovation, based on major scientific and technological research and development. The Institute will also be oriented to the industrialization of research results and strive to become a comprehensive research, science, and technology service institution with international influence.



12.2.3 TECHNICAL CONSULTATION "Responsible Consumption and Production"-**Related Consulting Projects**

To address the goal of Responsible Consumption and Production, Tsinghua University has conducted research projects on the impact of public clothing consumption on the ecological environment, WEEE disposal fund-supporting policy research, and sustainable development service and consumption standards.













Talent Training

Number of undergraduate courses	98
Number of graduate courses	7
Number of campus events (lectures, workshops, exchanges)	1



Scientific Research

Number of research projects	143
Number of publications in Chinese and foreign languages	66
Number of patents	348
Number of research output transformation	15
Number of university affiliated research centers	7



Cultural Inheritance and Innovation

Number of news on Tsinghua University News (Chinese)	1037
Number of news on Tsinghua University News (English)	241



Number of international conferences	2
Number of international conference participants	337

13,2 CASES

13.2.1 TYPICAL CASE The Global Alliance of Universities on Climate



On January 24, 2019, at the 2019 World Economic Forum, Tsinghua at Berkeley, University of Cambridge, Imperial College, Massachusetts Institute of Technology, and University of Tokyo to discuss the historical responsibility of top universities in addressing global climate

spread across six continents, currently consisting of 13 world-class United Kingdom, South Africa, India, Brazil, Japan, and Australia. The GAUC focuses on joint research, student activities, talent training, green campus, and public engagement, including bilateral and tion of technology and policy solutions, develops joint education programs and climate-related curriculum systems, promotes global

To address the common challenge of global climate change, a the GAUC, Tsinghua University hopes to build a platform for global cooperation and play a leading role in the global response to climate change. That is, the university will leverage its strengths in knowledge,

In November 2019, the first GAUC Graduate Student Forum was

13.2.2 HIGHLIGHT 1 Fifteen Lectures on Ecological Civilization

As a key step in the development of ecological civilization education, Tsinghua University opened the "Fifteen Lectures on Ecological Civilization" course. The course adopts the Liberal Arts Education model of "large class lecture + small class seminar + extracurricular practice." This practice not only ensures the weight of the course but also the effectiveness of the course and stimulates the students' enthusiasm for independent learning in the curriculum. For the first time, the large class course adopts the mode of multi-disciplinary joint teaching. Fourteen famous scholars from different fields, such as engineering, humanities, and arts, including academicians Qian Yi, Ni Weidou, Jin Yong, and Jiang Yi, and professors He Jiankun and Lu Feng, are in charge of the course, discussing the construction of ecological civilization in many aspects and all around. In-depth analyses of the background of the origin of ecological civilization exist, such as the current situation of energy and environment, climate change issues, and direct interpretations of the development history of ecological civilization, philosophical foundation, humanities and scientific foundation, and principles of engineering science. The focus is on the latest achievements and development direction of practicing the concept of ecological civilization in the fields of industrial production, architecture, materials, manufacturing, art design, and others. Rich stories and rigorous data exist, which cultivate students' multidisciplinary, multidimensional, and international vision of ecological civilization.



13.2.3 HIGHLIGHT 2 Key Technologies and Applications of Emission Inventory

The emission inventory technology is the core supporting technology for regional air quality improvement in the world, which refers to the emission database of various pollutant branches in the region concerned during a certain period. If the complex emission sources and various pollutants in production and life need to be accurately monitored, then the emission inventory technology is facing great technical challenges. The project "Key Technologies and Applications of Regional High-Resolution Emission Inventory for Air-Pollution Sources" was completed by the team led by He Kebin, the Professor of School of Environment, Tsinghua University, and Academician of Chinese Academy of Engineering. The results have significantly improved the long-term lag of emission inventory technology and data products in the prevention and control of regional air pollution in China. This technology has been adopted by more than 100 research institutions and many large international research programs at home and abroad, which has a significant international impact in this field. The project results are widely used in the prevention and control of air pollution in key areas, such as Beijing-Tianjin-Hebei Urban Agglomeration, Yangtze River Delta, and Pearl River Delta.



13.2.4 TECHNICAL CONSULTATION "Climate Action"-Related **Consulting Projects**

In response to the goal of Climate Action, Tsinghua University has conducted research on ecosystems and livelihoods in Africa under global climate change scenarios, carbon-neutral solution for the Beijing 2022 Winter Olympic and Paralympic Games and the Olympic climate change strategy legacy, and the progress of climate change and population health in China.













Talent Training

Number of undergraduate courses	71	
Number of graduate courses	13	
Number of campus events (lectures, workshops, exchanges)	2	



Scientific Research

Number of research projects	72
Number of publications in Chinese and foreign languages	9
Number of university affiliated research centers	3



Cultural Inheritance and Innovation

Number of student associations 1	
Number of news on Tsinghua University News (Chinese)	399
Number of news on Tsinghua University News (English)	13

Conservation and sustainable use of oceans and marine resources for sustainable development

14 LIFE BELOW WATER

12 CASES

14.2.1 HIGHLIGHT 1 Joint Research Center for Dianchi Plateau Lake

of cyanobacteria occurrence in Dianchi Lake. The Center is a key set of technologies for eutrophication management and medium to long-term ecological and environmental improvement goals and strategic measures. Furthermore, the Center provides scientific and











14.2.2 HIGHLIGHT 2 Tsinghua Forum on Marine Big Data

On March 25, 2016, Tsinghua University held the first "Tsinghua Forum on Marine Big Data." The forum was themed on the development status of marine big data, basic theories, technical methods, tools and platforms, and application innovation. Participants exchanged ideas about the innovative development mode of marine big data, technical innovation, industry dynamics, ocean strategy, ocean technology, marine big data think tank, ocean public opinion, ocean economy, shared achievements and experiences and discussed problems and dynamics. This forum provides an information exchange platform representing the high level of "Industry-Academia-Research" in the marine big data industry for experts, scholars, engineers, and students from domestic and foreign institutions of higher learning, research institutes, and enterprises.



14.2.3 TECHNICAL CONSULTATION "Life Below Water"-Related Consulting Projects

For the target of Life Below Water, Tsinghua University has carried out research on the following: the technology development of global wind and the wave coupler system of the National Marine Environment Forecasting Center, the calculation software of nuclide transport simulation in the three-dimensional flow field of the ocean, and Marine Hydrographic Study for the Feasibility Study for the Philippines Cross-Sea Bridge Project-Hydrodynamic Study.







TSINGHUA DATA RELATED TO THE SDG15





Talent Training

Number of undergraduate courses	179
Number of graduate courses	23
Number of graduate degree programs	1
Number of campus events (lectures, workshops, exchanges)	1



Scientific Research

Number of research projects	175
Number of publications in Chinese and foreign languages	68
Number of university affiliated research centers	13



Social Contribution

Number of online courses (MOOC)	3
Number of online courses participants (MOOC) (person-times)	191411
Percentage of off-campus learners enrolled in online courses (MOOC)	98.2



Cultural Inheritance and Innovation

Number of student associations	3	
Number of news on Tsinghua University News (Chinese)	1591	
Number of news on Tsinghua University News (English)	85	





15 LIFE ON LAND

combat desertification, halt and reverse land

degradation, and halt the loss of biodiversity

Protect, restore, and promote sustainable use of

terrestrial ecosystems, sustainably manage forests,

15.2 CASES

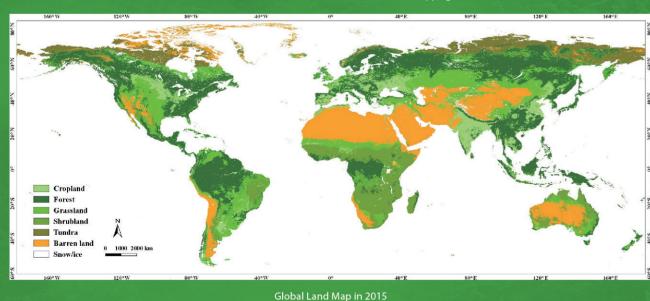
15.2.1 TYPICAL CASE Global Land Cover Data Product GLASS-GLC

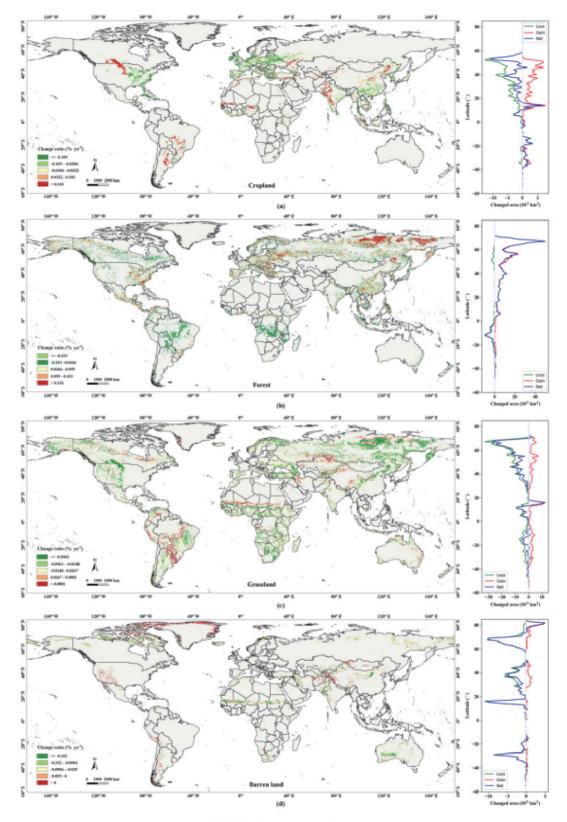
Department of Earth System Science, Tsinghua University, published a paper entitled *Annual dynamics of global land cover and its long-term changes from 1982 to 2015* in Earth System Science Data, the top journal dynamic land cover data products from 1982 to 2015 to the world.

of the key input parameters of the Earth system model, this product is of great value and significance for global environmental change and dynamics and climate change, and biodiversity conservation.

prevention, and infectious disease transmission simulation, GLASS-GLC

Satellite (GLASS) Climate Data Records from 1982 to 2015 as the data GLASS-GLC dataset collects tens of thousands of large consistent and the validity of feature identification. The annual average accuracy of the GLASS-GLC dataset is 82.81% as verified by the global independent sample database, which provides users with the detailed spatial





Dynamics of global land cover change from 1982 to 2015

15.2 CASES

GLASS-GLC reflects the spatial and temporal patterns of global land cover change for up to 34 years, including the significant phenomena of increasing arable land in the tropics, increasing forests in the northern hemisphere, and decreasing grasslands in Asia. The quantitative analysis shows that the level of the environmental impact of human activities is as high as 25.49% in areas with significant land cover change. The analysis also shows a strong

correlation between anthropogenic impacts and the increase in vegetation area. Compared with existing land cover data products, the GLASS-GLC dataset has high accuracy, consistency, comparability, richer category information, and longer coverage. This dataset fills the gap of existing mapping products in the world today.



15.2.2 HIGHLIGHT 1 China Institute for Rural Studies, **Tsinghua University**

China Institute for Rural Studies, Tsinghua University, aims to serve the national economic and social development and the reform and development of China's rural areas. Moreover, this Institute actively contributes to the national decision-making on the "Three Rural Issues" and promotes the construction of agricultural courses and personnel training. The Institute carries out research projects related to SDG15, such as rural land management, green agriculture development, agricultural water conservation, irrigation, ecological protection of grassland, and agricultural and rural ecological governance.

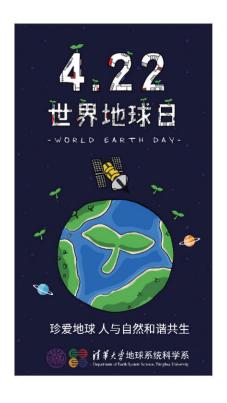


15.2.3 HIGHLIGHT 2 Knowledge Competition on World Earth Day

The 51st World Earth Day is on April 22, 2020. The Department of Earth System Science of Tsinghua University held a knowledge competition of World Earth Day via Weibo for six days (April 21–April 26). Eight followers from Shandong, Zhejiang, and Guangdong provinces won small gifts from the Department of Earth System Science.

15.2.4 TECHNICAL CONSULTATION "Life on Land"-Related **Consulting Projects**

In response to the goal of Life on Land, Tsinghua University has carried out the following: research works, such as sampling and identification of benthic fauna in the source area of the Yellow River and ecological evaluation of rivers; experimental simulation and testing and analysis of the movement characteristics of sediment and its environmental effects under the influence of micro-ecological systems; testing of sewage BOD5, petroleum, animal, and vegetable oils.





TSINGHUA DATA RELATED TO THE SDG16





Talent Training

Number of undergraduate courses	211
Number of graduate courses	66
Number of graduate degree programs	5
Number of campus events (lectures, workshops, exchanges)	3452



Scientific Research

Number of research projects	304
Number of publications in Chinese and foreign languages	267
Number of university affiliated research centers	58



Social Contribution

Number of social training programs	64
Number of social training program participants	8132



Cultural Inheritance and Innovation

Number of news on Tsinghua University News (Chinese)	6826
Number of news on Tsinghua University News (English)	560



International Exchange and Collaboration

Number of international conferences	3
Number of international conference participants	384

1 6 PEACE, JUSTICE AND STRONG INSTITUTIONS

Creating peaceful, inclusive societies for sustainable

accountable, and inclusive institutions at all levels

development, with access to justice for all and effective,

162 CASES

16.2.1 HIGHLIGHT 1 World Peace Forum



Founded in 2012, the World Peace Forum is a high-level forum on international security organized by Chinese non-government organizations. The objectives are to provide a platform for international strategists and think tank leaders to discuss has been successfully held for eight sessions. The core value of the security forecasts and suggestions for possible security cooperation. Moreover, the various forms of discussions provide a platform for

World Peace Forum special video conference arranges four parallel sessions covering topics, such as the world order after the COVID-19 crisis, artificial intelligence in the post-pandemic era, Asia-Pacific

16.2.2 HIGHLIGHT 2 Institute for National Governance Studies, **Tsinghua University**

The Institute for National Governance Studies, Tsinghua University, is an interdisciplinary research institution jointly initiated by the School of Law, School of Public Policy & Management, School of Social Sciences, and School of Finance in response to the request of the Third Plenary Session of the 18th CPC Central Committee. The objectives are to "improve and develop the socialist system with Chinese characteristics and promote the modernization of the national governance system and governance capacity." The Institute is an important platform for interdisciplinary research in social science. The Institute is also committed to researching major issues facing the modernization of China's national governance, cultivating first-class national governance talents, and providing powerful decision-making references and theoretical support for the improvement and development of the socialist system with Chinese characteristics and the modernization of the national governance system and governance capacity.



16.2.3 TECHNICAL CONSULTATION "Peace, Justice, and Strong **Institutions"-Related Consulting Projects**

For the goal of Peace, Justice, and Strong Institutions, Tsinghua University has carried out research and consultation on the "Belt and Road" corruption risk country study, the frontiers of cybercrime and smart justice, and the innovation of the supervision model of the integrated institution of discipline inspection and supervision.







TSINGHUA DATA RELATED TO THE SDG17





Talent Training

Number of undergraduate courses	28
Number of graduate courses	5



Scientific Research

Number of research projects	145
Number of publications in Chinese and foreign languages	7
Number of university affiliated research centers	3



Social Contribution

Number of social training programs	18
Number of social training program participants	146



Cultural Inheritance and Innovation

Number of student associations	4
Number of news on Tsinghua University News (Chinese)	1499
Number of news on Tsinghua University News (English)	159



International Exchange and Collaboration

Number of international conferences	6
Number of international conference participants	357
Number of international agreements (during 2016-2020)	349



17/2 CASES

17.2.1 TYPICAL CASE Institute for Sustainable Development Goals, **Tsinghua University**



The Institute for Sustainable Development Goals (TUSDG), Tsinghua University, was officially established on May 14, 2017, housed in the School of Public Policy & Management, and jointly conducts teaching and research work with relevant faculties and departments. TUSDG is committed to conducting in-depth multidisciplinary cross-sectional research on the overall framework of the SDGs, policy implementation, and specific goals. In addition, TUSDG comprehensively promotes experience exchange and mutual learning with relevant UN agencies and international counterparts in the field of the SDGs. TUSDG also strengthens experience exchange and policy learning on the implementation of the SDGs in countries globally. Furthermore TUSDG strives to become a professional research institution with international academic and policy influence in the field of the SDGs search. Then, TUSDG provides professional graduate degree programs and various short-term training programs through a new curriculum and flexible training process to train and provide comprehensive talents in the field of the SDGs for the international community. TUSDG also works closely with relevant Chinese government agencies to become the most influential high-end think tank in the field of the SDGs research in China.

TUSDG has actively established networks with various institutions, such as the United Nations Sustainable Development Solutions Network, International Development Law Organization, Ban Ki-moon Centre for Global Citizens, Yeosijae Future Consensus Institute, and Trina Public Welfare Foundation, laying important cornerstones for long-term cooperation in the future.

To build an international academic exchange platform and share the effective experiences of different countries' sustainable development implementation, TUSDG has successfully held nearly 200 domestic and international academic events in the field of the SDGs, particularly the "Meet SDGs" series of high-end forums. This event invites top experts from international politics, business, and academia to share their cutting-edge views in the field of sustainable development.

Around the SDGs, TUSDG conducts several studies, including The National Social Science Fund of China: research on the construction of the evaluation system of the 2030 Agenda for Sustainable Development and the path to its realization; The National Social Science Fund of China: research on the mechanism to improve the realization of the institutional advantages of giving full play to central and local initiatives; research on the local evaluation and outlook of the SDGs; research on the evaluation of the effect of the implementation of the policies of the National Sustainable Development Experimental Zone; research on the development of the Guiyang International Forum on Ecological Civilization Plan (2019–2028) and Guizhou Ecological Civilization Institute Construction Program; Deging's County Program for Practicing the 2030 Sustainable Development Agenda; research on Chinese Enterprises' Promotion of the 2030 Sustainable Development Agenda; effectiveness and mechanisms of China's Environmental Protection Inspectors; research on SDGs Education, Human Capital and Environmental Pollution; SDG4-oriented early education framework study on artificial intelligence; Artificial Intelligence and Global Sustainable Development: and Sustainable Food Systems and Land

17.2.2 HIGHLIGHT Active Participation in "One Belt, One Road" Construction

The "Belt and Road" Initiative is committed to strengthening policy communication, facility connection, trade flow, capital integration, and people-to-people contact with coastal countries, building an all-round, multi-level, and complex interconnection network, and creating an open, inclusive, and mutually beneficial international cooperation model. Tsinghua University actively participates in the construction of "One Belt, One Road," closely follows the vision of the "One Belt, One Road" initiative, and steadily promotes education and cultural exchanges with countries along with the "One Belt, One Road" and related countries, providing talent and intellectual support for "One Belt. One Road" construction. In November 2016, the Institute for Belt and Road Initiative was established, and in January 2017, the "Belt and Road Davos Forum" project was held. Then, in April 2017, Tsinghua University established the Asian Universities Alliance with top universities from 15 Asian countries to promote exchange and cooperation among universities in Asia, and in October 2018, Tsinghua Southeast Asia Center, Tsinghua SEA, was established in Indonesia to promote humanistic exchanges between the two countries and educational cooperation among Southeast Asian countries.



17.2.3 TECHNICAL CONSULTATION "Partnerships for the Goals"-Related Consulting Projects

In response to the goal of Partnerships for the Goals, Tsinghua University has carried out studies on landscape design for the second One Belt and One Road International Cooperation Summit, Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal, China's contribution to capacity building for Earth observation in African countries, and implementation of the Agreement on the Multilateral Environment of Chemicals and Waste in Asia by promoting understanding and capacity building.





CONCLUSION

On the occasion of the 110th anniversary of Tsinghua University and the milestone of the fifth year of the implementation of the 2030 Agenda, Tsinghua University conducts this review on campus, to discuss and mobilize the SDG-related efforts and better promote the transformation of Tsinghua University's sustainable development.

Tsinghua University coordinates all university functions of talent training, scientific research, social contribution, cultural inheritance and innovation, and international exchange and collaboration within the framework of the 2030 Agenda. In addition, Tsinghua University plays the active role of higher education in promoting the SDGs. Moreover, this report has also shown that Tsinghua University has to make significant improvements on each goal. Tsinghua University will continue to consolidate and improve its sustainable development status and its contribution to global sustainable development by strengthening independent innovation and learning with other universities.

Tsinghua University is willing to strengthen exchanges and cooperation with UN agencies and universities globally. The objectives are as follows: train talents with an international perspective, concern for human destiny, and global competence; build a more open, integrated, resilient, and sustainable university; create a better future for humanity.

Thank you for your attention and efforts to our common concern!

RESEARCH METHODOLOGY AND DATA SOURCES

This report combines the SDGs with Tsinghua University's five major functions: in 17 SDGs dimensions, through the presentation of data and cases in talent training, scientific research, social contribution, cultural inheritance and innovation, and international exchange and collaboration. This report also constitutes the "17*5" Tsinghua University SDGs Impact Model, to sort out Tsinghua University's practices in implementing the SDGs and better enhance the higher education internationalization in China and contribute to global sustainable development.



This report was commissioned by Tsinghua University to the TUSDG and completed between October 2020 and April 2021. This report collects cases and the latest annual data from 16 functional departments across Tsinghua University: the cases are based on material collected from each functional department, including a combination of relevant reports and interviews; the indicators for quantifying the data referring to the classification keywords of the SDGs in Getting Started with the SDGs in Universities published by the United Nations' Sustainable Development Solutions Network (SDSN) in January 2017, which has a total of 847 English keywords, and the Chinese keywords are expanded to 867 considering the country-specific and Chinese contexts. The quantitative data of the classification are obtained by cross-searching and filtering the original data of each department with the corresponding Chinese and English keywords.

The report covers the work of Tsinghua University from 2016 to 2020. To ensure the timeliness of the report data, the quantitative data section is presented in the latest year that can be collected. In the case part, the highlight cases collected are selected for extraction and in-depth description.



The scientificness and preciseness of the data used in this report need further study. Thank you for your kind understanding.

DEFINITION OF VARIABLES

The range of definitions and detailed explanations of the specific indicators in this report can be found in the table below.



Talent Training

raicite training	
Number of undergraduate courses	Courses for undergraduate students
Number of graduate courses	Courses for graduate students (including doctoral students)
Number of graduate degree programs	Academic degree and international degree programs for graduate students (including doctoral students)
Number of campus events (lectures, workshops, exchanges)	Number of cultural exchange activities organized by Tsinghua University for students both on and off campus, faculty, and the public
Number of events aimed at developing students' global competency of overall campus events	Number of activities aimed at developing and improving students' ability to study, work, and get along with others effectively in an international and multicultural environment
Consolation for students with financial difficulties	Number of conversations with students with financial difficulties
Grants for students with financial difficulties (RMB)	Grants provided by Tsinghua University for students with financial difficulties, excluding three graduate assistantships (research assistant teaching assistant, and administrative assistant) and student loans
Number of students under difficulty receiving financial aid	Number of students receiving grants
Percentage of female undergraduates	/
Percentage of female graduates (master's degree)	/
Percentage of female graduates (doctoral degree)	/



Scientific Research

scientific research, technical consultation, or development undertaken by Tsinghua University for the state, domestic, n legal entities or their holding companies or representative tions in China
d papers, monographs/teaching materials, and white paper ment reports)
of domestic and foreign patents applied for and granted
ncept as "disposal of scientific and technological achieve- which refers to the number of technological achievements ned into practical applications
of university affiliated research centers that serve the talent and discipline cultivations, promote research innovation disciplinary integration, and facilitate academic internation- ige
of university-level think tanks that can provide policy support for government agencies



Social Contribution

Number of social training programs	Number of programs providing various types of non-academic training and education for the public
Number of social training program participants	Number of participants in training programs
Number of online courses (MOOC)	Number of courses conducted by Tsinghua University in the form of online teaching and open to the public
Number of online courses participants (MOOC) (person-times)	/
Percentage of off-campus learners enrolled in online courses (MOOC)	Percentage of non-Tsinghua students, staff and faculty participating in online courses
Number of student team of social practice program	The number of social practice teams of undergraduate and graduat students. Social practice is an extracurricular learning unit in which school students use their time outside of school to conduct targete fieldwork through school projects and simultaneously serve the construction and development of the local community.
Number of student participants in social practice program (person-times)	Number of students participating in social practice activities
Total water consumption on campus (m³)	Total annual water consumption on campus in 2019
Production and utilization of reclaimed water on campus (m³)	Total utilization of reclaimed water and rainwater on campus in 2019
University floor space (m²)	/
Percentage of energy retrofitting floor space to university floor space in 2019	Percentage of total area of campus buildings retrofitted with energy-saving technologies, techniques, equipment, materials, and products using renewable energy in Tsinghua University floor space in 2019



Cultural Inheritance and Innovation

Number of student associations	Mass cultural, artistic, and academic groups on campus formed and operated by students voluntarily
Number of news on Tsinghua University News (Chinese)	Number of news published on Tsinghua University News to share
Number of news on Tsinghua University News (English)	Tsinghua University's updates to the public
Number of protected cultural relics	The immovable cultural relics on campus, mainly including early buildings, historical buildings of Tsinghua University, census of the cultural relics and registration projects in Haidian District and other immovable cultural relics. Movable cultural relics are not included.



International Exchange and Collaboration

Number of international conferences	International academic conferences and seminars and other activities hosted by Tsinghua University
Number of international conference participants	Number of participants in international conferences
Number of international agreements (during 2016-2020)	Number of framework agreements signed by Tsinghua University when conducting activities related to international, Hong Kong, Macao, and Taiwan cooperation and exchange (during 2016–2020)
Number of foreign visitors and exchanges (during 2016-2020)	Number of the faculty, staff, and students of Tsinghua University visiting and exchanging abroad (overseas) and overseas scholars and student visitors (during 2016–2020)

Given the interdisciplinary nature of the indicators, the data for the indicators under each sub-goal do not add up to the data in the data overview tables.



