Tsinghua University SDG Action Report

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Report Working Group
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 move 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 unshakable responsibility and should become the wind-shear 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 at Tsinghua University has achieved remarkable results. In 2019 alone, 93.9% of the floor space on campus has been energy-saving; the number of reclaimed water and rainwater produced and used. In 2020 alone, Tsinghua University opened 2,271 courses related to the SDGs, organized 2066 campus events, lectures, workshops, exchanges, and other activities related to the SDGs, and organized 408 social training projects related to the SDGs with 5557 trainees in total. Tsinghua University carried out 1205 research projects related to the SDGs, obtained 1005 patents related to the SDGs at home and abroad, and achieved 494 scientific and technological achievements related to the SDGs. A total of 40,494 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 Dai 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 "Xuestang" platform, Tsinghua University opens high-quality online education resources to the entire country and even the world, striving to remove the "digital divide." As of December 2023, the "Xuestang" platform has served 62 million registered users and more than 3000 MOOCs.

Tsinghua University also provides services to society through technical consultation, which covers 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 pandemic, 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 — Xuestang — to the world. It offered 179 "Closed Classes" for domestic universities in regions severely affected by the COVID-19 pandemic and held online joint job fairs with 136 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 and anti-COVID-19 antibodies. On April 2, 2021, Tsinghua University established the Yanke 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 December 2021, the Global MOOC Alliance was established, and 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 91,581.

Comprehensively and progressively, Tsinghua University actively promotes the construction of sustainable development, 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 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.
DATA OVERVIEW OF TSINGHUA SDG ACTIONS

Number of social training programs related to the SDGs

Number of news related to the SDGs on Tsinghua University News

SDG1 No Poverty: 16
SDG2 Zero Hunger: 2
SDG3 Good Health and Well-being: 29
SDG4 Quality Education: 39
SDG5 Gender Equality: 11
SDG6 Clean Water and Sanitation: 1
SDG7 Affordable and Clean Energy: 111
SDG8 Decent Work and Economic Growth: 63
SDG9 Industry, Innovation, and Infrastructure: 26
SDG10 Reduced Inequalities: 11
SDG11 Sustainable Cities and Communities: 29
SDG12 Responsible Consumption and Production: 16
SDG13 Climate Action: 18
SDG14 Life Below Water: 64
SDG15 Life on Land: 18
SDG16 Peace, Justice, and Strong Institutions: 63
SDG17 Partnerships for the Goals: 1

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SDG17 Partnerships for the Goals: 1
DATA OVERVIEW OF TSINGHUA SDG ACTIONS

**Talent Training** (Data Scope: 2020)

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<tbody>
<tr>
<td><strong>01</strong></td>
<td>Courses related to the SDGs</td>
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<tr>
<td></td>
<td>Number of undergraduate courses</td>
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<td>Number of graduate courses</td>
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**Degree programs related to the SDGs**

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<td><strong>02</strong></td>
<td>Number of graduate degree programs</td>
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**Campus events for students related to the SDGs**

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<tr>
<td><strong>03</strong></td>
<td>Number of campus events (lectures, workshops, exchanges)</td>
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<td>Including: Number of events aimed at developing students’ global competency</td>
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**Education Equity**

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<tr>
<td><strong>04</strong></td>
<td>Consolation for students with financial difficulties</td>
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<td>Grants for students with financial difficulties (RMB)</td>
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<td>Number of students under difficulty receiving financial aid</td>
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**Gender Equality**

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<tr>
<td><strong>05</strong></td>
<td>Percentage of female undergraduates</td>
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<td>Percentage of female graduates (master’s degree)</td>
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<td>Percentage of female graduates (doctoral degree)</td>
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**Scientific Research** (Data Scope: 2020)

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<td><strong>01</strong></td>
<td>Outputs and transformation of scientific research related to the SDGs</td>
</tr>
<tr>
<td></td>
<td>Number of research projects</td>
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<td>Number of publications in Chinese and foreign languages</td>
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<td>Number of patents</td>
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<td>Number of research output transformation</td>
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**Research institutes related to the SDGs**

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<tr>
<td><strong>02</strong></td>
<td>Number of university affiliated research centers</td>
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<tr>
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<td>Number of university-level think tanks</td>
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**Social Contribution** (Data Scope: 2020, except “Resources and energy use on campus”)

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<tbody>
<tr>
<td><strong>01</strong></td>
<td>Social training towards public and social practice program towards students related to the SDGs</td>
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<tr>
<td></td>
<td>Number of social training programs</td>
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<td>Number of social training program participants</td>
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<td>Number of online courses (MOOC)</td>
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<td>Number of online courses participants (MOOC)(person-times)</td>
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<td></td>
<td>Percentage of off-campus learners enrolled in online courses (MOOC)</td>
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<td>Number of student team of social practice program</td>
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<td></td>
<td>Number of student participants in social practice program (person-times)</td>
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**Resources and energy use on campus**

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<tr>
<td><strong>02</strong></td>
<td>Total water consumption on campus(m³)</td>
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<tr>
<td></td>
<td>Production and utilization of reclaimed water on campus (m³)</td>
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<tr>
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<td>University floor space (m²)</td>
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<td>Percentage of energy retrofitting floor space to university floor space in 2019</td>
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**Cultural Inheritance and Innovation** (Data Scope: 2020)

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<tr>
<td><strong>01</strong></td>
<td>Students’ activities related to the SDGs</td>
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<td>Number of student associations</td>
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**News articles related to the SDGs**

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<tbody>
<tr>
<td><strong>02</strong></td>
<td>Number of news on Tsinghua University News (Chinese)</td>
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<tr>
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<td>Number of news on Tsinghua University News (English)</td>
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**Conservation of cultural relics related to the SDGs**

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<tbody>
<tr>
<td><strong>03</strong></td>
<td>Number of protected cultural relics*</td>
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**International Exchange and Collaboration related to the SDGs** (Data Scope: 2020)

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<tbody>
<tr>
<td><strong>01</strong></td>
<td>Number of international conferences</td>
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<tr>
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<td>Number of international conference participants</td>
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<td></td>
<td>Number of international agreements (during 2016-2020)</td>
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<td></td>
<td>Number of foreign visitors and exchanges (during 2016-2020)</td>
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</tbody>
</table>
### 1.1. TSINGHUA DATA RELATED TO THE SDG1

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

#### Social Contribution
- Number of social training programs: **16**
- Number of social training program participants: **2379**

#### Cultural Inheritance and Innovation
- Number of student associations: **1**
- Number of news on Tsinghua University News (Chinese): **2879**
- Number of news on Tsinghua University News (English): **471**

*Eradicating all forms of poverty in the world*
1.2 CASES

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

Since 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 procedure even without any money.

Additionally, Tsinghua University docks with student source-based credit loans firmly at the spot of the “Green Channel” site. A preparing and consulting task for student source-based credit loan set up to collect the loan acceptance certificate on site and handle the receipt confirmation to make sure the student properly stick the loan form to 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 school year.

In 2009, 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 functions of Tsinghua University in the work of providing aid for students from poor families. Tsinghua University has increased 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 ALL” is realized, that is, all students with financial difficulties and all basic study expenses of the students with particular financial difficulties are covered.

In 2017, Tsinghua University proposed higher requirements based on the results of funding work, so further enrich the concept of aid, improve the "Green Channel" system, and promote development projects. Tsinghua University fully understands and pays close attention to the development needs of students from poor families, and provides developmental assistance to students. Moreover, Tsinghua University strives to help each student to have personal development, broaden their horizons, and enhance their self-confidence so that they can share resources and opportunities appropriately 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 epidemic led to a decline in household income, and some students with financial problems encountered 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 to 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 learning network expenses, amounting to a total of 750,000 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 “Mulan Nanjiang 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 institutional framework and policy system of Rural Revitalization Strategy in Jiangxi Province, the leading role of public culture in Rural Revitalization—talking Changzhou 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

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
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<tbody>
<tr>
<td>Number of undergraduate courses</td>
<td>387</td>
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<tr>
<td>Number of graduate courses</td>
<td>74</td>
</tr>
<tr>
<td>Number of graduate degree programs</td>
<td>7</td>
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### Scientific Research

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<td>Number of research projects</td>
<td>419</td>
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<td>Number of publications in Chinese and foreign languages</td>
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### Social Contribution

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### Cultural Inheritance and Innovation

<table>
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<td>239</td>
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</table>

**Eradicating hunger, achieving food security, improving nutrition, and promoting sustainable agriculture**
2.2 CASES

2.2.1 HIGHLIGHT
“Clear Your Plate” Campaign

Tsinghua University has launched a series of activities to advocate “Clear Your Plate” campaign in all canteens, creating a good atmosphere of being economical and opposing the waste of food on campus, guiding diners to establish the good virtue of civilization and frugality. All meals in the student canteen are served in “half portions,” advocating everyone to “take the right amount of food, say NO to food waste.” On October 20, 2016, Tsinghua University held “Clear Your Plate to Get a Free Yogurt Activity.” Students who dine in the three canteens of Jiying, Wanshe, and Qingfeng can receive free yogurt produced by Tsinghua University at the end of the canteen if they do not waste any food. The activity aimed to raise students’ awareness of saving and cultivate good living habits.

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 Zhangjiu Grain Reserve Phase III 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 Lianhu, and the Food Loss and Waste Reduction Creativity Workshop of Swiss Embassy in China.
### 3. GOOD HEALTH AND WELL-BEING

Ensuring healthy lifestyles and promoting well-being for all ages

#### 3.1 TSINGHUA DATA RELATED TO THE SDG3

<table>
<thead>
<tr>
<th>SDG3</th>
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<td>Number of international conference participants</td>
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</tr>
</tbody>
</table>
3.2 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 of its shares in the Enterprise Share Management Center, that is, 200 million Vanke shares, to the Tsinghua University Education Foundation as a cash contribution to continuously support the construction and development of the Vanke School of Public Health. The establishment of the Vanke School of Public Health is an important step for Tsinghua University to build a comprehensive public health and wellness discipline of international influence. It is committed to responding to global development trends and the urgent national needs. The establishment is also to train high-level talents who will further the development of international public health in the future. The Executive Director General of the World Health Organization, Margaret Chan, is the Inaugural Dean of the School.

The Vanke School has established four disciplines in preventive medicine, biostatistics, health policy, and management to recruit graduate students. These disciplines are urgently needed by the country and are future-oriented. In the next 3 to 10 years, the Vanke School will strive to become a unique teaching base for high-level public health talent 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 School will also be a world leader in the research of pandemic transmission mechanisms of infectious diseases, whole-chain health surveillance, and early warning, and global systemic public health policy and management.

Tsinghua University has a good foundation for building a first-class public health and wellness discipline. Tsinghua University has formed a comprehensive discipline layout covering 11 disciplines and has established a good academic reputation worldwide. Calmly, faculty members of Tsinghua University have long been involved in teaching and research in public health, in the field of engineering, management, economics, and social sciences, for a long time, laying the foundation for extensive interdisciplinary cross-collaboration. After the SARS outbreak, Tsinghua University set up the Center for Crisis Management, Research, and Health to support the Beijing government. In 2018, Tsinghua University established the Health Research Center, with a clear plan to develop the public health discipline, conduct research, and train postgraduates in the field of public health. Several highly qualified faculty members are involved in the construction of the public health discipline, and the foundation of a master’s degree in public health is now in place. Tsinghua University is experienced in running international master’s programs in public health, and since 2014, Tsinghua University has trained 112 leaders of the new generation in public health for 32 developing countries. Since 2015, Tsinghua University has established partnerships with the Johns Hopkins Bloomberg School of Public Health and the Harvard T.H. Chan School of Public Health. Moreover, Tsinghua University cooperates extensively in health care management talent training and faculty exchange. In terms of academic research, Tsinghua University has maximized its multidisciplinary and comprehensive advantages to promote interdisciplinary research. It has also made outstanding achievements in epidemiology, pathogenesis, rapid virus detection technology, antibody and vaccine research, and the development of diseases such as AIDS, Middle East respiratory syndrome, novel coronavirus pneumonia, Zika virus infections, and thrombosis.

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 577 Tsinghua students and staff successfully donated 688 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 in 2019 in Tsinghua University exceeded 300 and reached 3,100 person-times, and the total volume of blood donated reached 519.1 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 30,088 times and the total volume of blood donated reached 35,245 units. Tsinghua University has been awarded the China 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.

3.2.3 HIGHLIGHT 2

Nucelace Acid Testing Chip Kit

The team of Academicians Ching-Jing of Tsinghua University, together with West China Hospital of Sichuan University and Bao Biological Group Co., Ltd., jointly designed and developed the “nuclease recombinase/PCR testing kit” for the COVID-19 diagnostic medical device. Tsinghua University urgently provided four sets of testing instruments to Wuhan. Moreover, Tsinghua University donated chips and warrants worth more than 1.5 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 Huaxi Hospital.

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 Beijing—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
- Consolidation for students with financial difficulties: 8000 times
- Grants for students with financial difficulties (RMB): 19.372 million
- 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

### International Exchange and Collaboration
- Number of International conferences: 16
- Number of International conference participants: 1890
- Number of foreign visitors and exchanges (during 2016-2020): 91581

**Ensuring inclusive and equitable quality education and lifelong learning opportunities for all**
4.2 CASES

4.2.1 TYPICAL CASE

XuetangX

Tianhui University is striving to narrow the "digital divide" by opening high-quality online academic 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, Tianhui University opened more than 2,200 new XuetangX courses for free to society and helped 1.8 million teachers and students nationwide carry out online teaching through its self-developed intelligent teaching tool "Rain Classroom".

In April 2020, Tianhui University released the international version of XuetangX, which brings together good universities, good teachers, and good courses. This version is open to learners worldwide, free of charge, contributing to ensuring inclusive and equitable quality education and lifelong learning opportunities for all. Meanwhile, 415 of the online courses provided by Tianhui University are listed in the SGO, with a cumulative total of over 3.4 million learners, which effectively promotes the SGO through the dissemination of the courses.

Tianhui University released the XuetangX MOOC platform in 2013 and launched the first but online course. Until December 2020, XuetangX has 62 foreign registered users and more than 1,000 MOOCs covering more than 300 countries and regions. Tianhui University shared over 300 of its own MOOCs on the platform, and 1,454 of which have been evaluated as high-quality online courses.

In addition, Tianhui University actively conducted online education exchanges and cooperation with international universities and institutions. Tianhui University also actively provided global universities with a sample of online teaching practice that can be learned from during the COVID-19 pandemic. On April 24, 2020, Tianhui University and UNESCO jointly launched the Spatial 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 and presented the e-learning education and prospects for the COVID-19 and global university online education cloud sharing seven activities and a total of 5,000 representatives from home and abroad watched the broadcast, sharing online educational practice experience with UNESCO and global universities and institutions.

From December 4 to 11, 2020, the Global MOOC Conference jointly sponsored by Tianhui University and the UNESCO Institute for Information Technologies in Education, was successfully held in Tianhui University. On the evening of 11th, the Global MOOC Alliance GA was officially announced to establish at the closing meeting of the conference, and the Key Declaration on MOOC Development was released simultaneously. The GA is co-founded by 17 universities from 14 countries in 14 institutions and 14 education institutions. It aims to work together to meet the opportunities and challenges of COVID-19 in the era of intelligent Internet. The GA was established at Tianhui University, which serves as the inaugural chairman of the GA. Qiaoyong President of Tianhui University serves as the inaugural chairman of the Alliance.

4.2.2 HIGHLIGHT 1

Clone Class

During the COVID-19, Tianhui 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, Tianhui University synchronized 32 courses to its sister universities, including Wuhan University, Hubei University of Science and Technology, Huazhong Agricultural University, Xingjiang University, Tsinghua University, and Qinghai University, which benefited 3,389 teachers and students. In addition, 453 teachers from Xingjiang University joined our "Clone Class" of 115 courses to study. In the fall semester, Tianhui University synchronized seven courses to Hebei University of Technology and Xingjiang University through Rain Classroom "Clone Class" benefiting nearly 300 students and teachers. Then, 113 teachers from Hebei University of Technology and Xingjiang University joined "Clone Class" of 64 courses to study.

4.2.3 HIGHLIGHT 2

Master of Public Policy for Sustainable Development Goals

Tianhui 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 interdisciplinary 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 has graduated in 2021.
4.2 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 interweaving 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 Henan. Tsinghua University has also conducted a study on the early education framework of artificial intelligence for SDGA, including global environmental education and leadership project.


5 GENDER EQUALITY

5.1 TSINGHUA DATA RELATED TO THE SDG5

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 degrees): 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

Achieving gender equality and the empowerment of all women and girls
5.2 CASES

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

On November 12, 2020, the 9th World Women University Presidents Forum was held in Xi’an, with the theme of “Global Communion, Confessional 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 “Filling the Role of Women and Improving Women’s Leadership”. Chen Xu, the Secretary of the CPC Tsinghua University Committee and Chairperson of the University Council, attended the forum and delivered a speech.

The World Women University Presidents Forum pays attention to women’s growth, development, and leadership enhancement and has become an important platform for the exchange of academic ideas among women university presidents, reflecting the international and 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 one way, but it may be a more effective and sustainable way to treat everyone equally without emphasizing gender differences and to develop and support everyone to the full. Tsinghua’s communist tradition of education and scholarly embodies the values of equality between men and women, all-around development, and success for 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.”
6.1 TSINGHUA DATA RELATED TO THE SDG6

**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

**International Exchange and Collaboration**
- Number of international conferences: 3
- Number of international conference participants: 112
6.2 CASES

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

Through extensive field research and design studies on rural toilets, Tsinghua University has introduced a set of an integrated squatting setting dual-use toilet and wastewater disposal system for rural areas. This is the most common squatting toilet in rural areas which can also be easily changed to a sitting toilet to keep the area around the toilet clean and convenient for the elderly. The toilet seat and elevated part are made of resin, which is lightweight and easy to move. This type of training can be introduced, and these wastes can be effectively decomposed in the absence of water.

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 membrane technology and configuration, water reuse and resource energy recycle, drinking water treatment and desalination, membrane pollution mechanism and control, municipal 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 breaching rate of sewage treatment plants, and technology for regenerative treatment and utilization of sewage.
## CS7

**Affordable and Clean Energy**

### 7.1 Tsinghua Data Related to the SDG7

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<td>1264</td>
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</table>
7.2 CASES

7.2.1 TYPICAL CASE
Sino-Italian Ecological and Energy Efficient Building

Located in the southeast corner of Tsinghua University, the Sino-Italian Ecological and Energy Efficient Building is an intelligent teaching and research office building that integrates green, ecological, environmental protective, and energy-conservative concepts. In addition, the Sino-Italian Ecological and Energy Efficient Building is the official building of the School of Environment, Tsinghua University. Built jointly by the Italian government and the Chinese Ministry of Science and Technology, the building provides a platform for the development of long-term cooperation in the field of environment and energy, including a model for China in terms of the potential of buildings in CO₂ reduction. The building also follows the principle of sustainable development and embodies the concept of integration of humans and nature. Through scientific overall design, the building integrated and applied the most advanced international technologies, materials, and equipment in natural ventilation, natural lighting, low-energy envelope, solar power generation, reclaimed water utilization, green building materials, and intelligent control. This case demonstrates the harmonious unity of humanities and architecture, environment, and technology. Therefore, this building has also become a model of a “green 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, Weining 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 Heilongjiang District “Coal-free” Working Group, Qingheyuan 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 CONSULTATION
“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.
## 8.1 TSINGHUA DATA RELATED TO THE SDG8

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

### Cultural Inheritance and Innovation
- Number of news on Tsinghua University News (Chinese): 863
- Number of news on Tsinghua University News (English): 967

### International Exchange and Collaboration
- Number of international conferences: 4
- Number of international conference participants: 1092
8.2 CASES

8.2.1 HIGHLIGHT 1
Improvement of the Faculty Assessment System

In 2018, Tsinghua University completed a new scheme to improve the teaching assessment system. According to the phased requirements of the internal control of teaching quality, Tsinghua University improves the teaching assessment system to fully reflect the “Tianyi” talent training concept and increase the guidance of the teaching evaluation index in the aspect of teachers teaching input and feedback to students, including the course challenge and training amount. Tsinghua University has clarified that teaching and education is the first academic responsibility of teachers. Tsinghua University also clarified the teaching-oriented requirements for perspective and long-term appointments, emphasized teaching and education, teacher ethics, real talent, and quality contribution in the assessment system, and created and maintained a campus culture of “pride in teaching”.

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.
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

9.1 TSINGHUA DATA RELATED TO THE SDG9

**Talent Training**
- Number of undergraduate courses: 1963
- 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: 1194
- 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): 290,900
- Percentage of energy-retrofitting floor space to campus floor space in 2019: 9.97

**Cultural Inheritance and Innovation**
- Number of student associations: 7
- Number of news on Tsinghua University News (Chinese): 3246
- Number of news on Tsinghua University News (English): 1807

**International Exchange and Collaboration**
- Number of international conferences: 7
- Number of International conference participants: 1,260
9.2 CASES

9.2.1 TYPICAL CASE

The SDG Open Hack

The SDG Open Hack is a platform where students and professionals from around the world collaborate to develop solutions for achieving the SDGs. The hackathon was organized by Tsinghua University and sponsored by the SDG Committee. The event aims to bring together students and professionals from different fields to work on projects related to the SDGs.

The SDG Open Hack was held in November 2019 and had over 300 participants from 30 countries. The event featured workshops, mentorship sessions, and a pitching competition where participants presented their ideas and solutions. The winners of the pitching competition were awarded prizes and recognition.

The SDG Open Hack is an initiative that promotes sustainable development and encourages students to think creatively and collaboratively to find solutions to global challenges. The event has potential for future expansion and replication to other universities.

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 pandemic. The fund aims to improve the research and construction of China’s public health and emergency response system. As 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, and global cooperation and cooperation have been applied in the front line of the pandemic. Moreover, several groups have achieved top academic results in biomedical and public policy fields.

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 smart manufacturing industry in China and UK.
## 10.1 Tsinghua Data Related to the SDG10

### 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): 266,486
- 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 2015, Tsinghua University pioneered and implemented the “Self-improvement Program,” taking the lead in fitting 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, stimulates self-improvement, and builds strong bonds of moral and cultural values. In 2018, Tsinghua University launched the “Three Regions, Three States, and Other Deeply Poor Areas” initiative to further improve the “Self-improvement Program” for self-improvement better. The 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 offers scholarships to students from rural areas through the National Special Plan, up to 10,000, 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+ Students from poor rural areas having been admitted to Tsinghua University

In 2020, Tsinghua University offered admissions to 28 provinces under the “Self-improvement Program.” A total of 387 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. There were 107 students who were eventually admitted to Tsinghua University, having an increase of 23 students compared with the previous year. Among them, a total of 11 students whose grades were slightly lower than the “Self-improvement Program” scholarship line were absorbed as local admissions 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 further development environment for them after they finish their registration, fully helping them to grow up in Tsinghua University. According to statistics, more than 90% 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 exchanges, social practice, and academic exchanges. 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.

100 Scholarship
50+ Grants

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 moral character 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.
### SDG11: Sustainable Cities and Communities

#### 11.1 Tsinghua Data Related to the SDG11

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</table>

Building inclusive, safe, disaster-resilient and sustainable cities, and human settlements
11.2 CASES

11.2.1 TYPICAL CASE
Conservation of Cultural Relics in Tsinghua

The early buildings of Tsinghua University reflect the evolution of modern Western school architecture in China, with typical values of architectural styles and high artistic level. These buildings also contain the excellent architectural works of the first generation of Chinese architects, which has an important position in the history of architecture. The State Council announced on June 25, 2001, the fifth batch of national key cultural relics protection units and the merger project with the existing national key cultural relics protection units (State Development [2001] No. 25). The early buildings of Tsinghua University were included in the protection list, in the category of the modern important historical sites and representative buildings.

Tsinghua University needs a professional organization to carry out a comprehensive risk assessment inspection of the early buildings, issue risk assessment reports. The organization will also assess the risk level of the buildings, improve the safety management system of cultural relics, and enhance the preventive capacity. They will focus on promoting the protection and repair of cultural relics, surveys, and gradually implement the protection and conservation projects according to the actual situation of the heritage buildings. The protection and sustainable use of cultural relics can be achieved by strengthening safety management and protective repair work on heritage buildings.

Tsinghua University has made efforts to gradually adjust the use of heritage buildings to teaching, office, and scientific research space to achieve the basic use of arts, science, and party office. The buildings formerly used for scientific research were gradually adjusted to pure teaching use, and those formerly used for residential use were gradually adjusted to office use. Based on preserving the characteristics of the original buildings and continuing the humanistic communication, and on the premise of enhancing the safety of the use function, the cultural relics is protected and utilized to better protect the invaluable heritage of the campus.

Tsinghua University carries out the construction of the “Campus Architectural Landscape Information Open Display System” to optimize the open use of cultural relics resources. Tsinghua University strengthens the exploration of the coordination of cultural relics and develops its historical, cultural, and academic value. It also uses the heritage resources to carry out educational research and tells the story of Tsinghua University. Moreover, Tsinghua University publishes research results, popularizes cultural knowledge, and disseminates propaganda to the community to enhance social display and influence. Then, Tsinghua University establishes public information platforms, uses new media, and new technologies to enhance the dissemination effect and all-round open display of information on heritage resources, enhances interactivity, improves the participation of students, faculty, and society, and expands the influence. Tsinghua University devotes to making architectural heritage better serve society, pass on the cultural relics of the campus, and explore its sustainable value.

Tsinghua University strives to protect the traditional culture and pays attention to cultural inheritance and innovation. Since Tsinghua Bamboo Slips, Bamboo Tips in Warring States period is sorted, they have been effectively protected. In recent years, with the joint study of Tsinghua Bamboo Slips, they are considered to be the codex of ancient Chinese culture in bamboo slips. Tsinghua Bamboo Slips has been presented gradually. Tsinghua University Art Museum is a place where science and technology meet humanism and art. The policy of establishing Tsinghua University Art Museum is to manifest humanistic spirit, gather artistic essence, exhibit quality collections, conduct academic researches, facilitate domestic and foreign exchanges, communicate information, cultivate new cultural trends and cultivated talents. Tsinghua University Art Museum focuses on exhibition planning, fine promotion, holding various academic activities, and carrying out public activities. Moreover, this museum plays an irreplaceable role in cultivating the students of Tsinghua University, making contributions to the development of modern science and technology innovation achievements.

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.
**12 RESPONSIBLE CONSUMPTION AND PRODUCTION**

Adopting sustainable consumption and production patterns

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**12.1 TSINGHUA DATA RELATED TO THE SDG12**

### 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

### International Exchange and Collaboration
- Number of international conferences: 3
- Number of international conference participants: 390
12.2 CASES

12.2.1 TYPICAL CASE
Center for Industrial Development and Environmental Governance, Tsinghua University

The Center for Industrial Development and Environmental Governance (CIDEG), Tsinghua University, is dedicated to policy research, academic exchange, graduate education, and on-the-job training on industrial development, environmental governance, and institutional transition. The objectives are to promote education and research on public policy and management in China and to enhance the communication, understanding, and cooperation among the academic, business, non-profit, and public sectors.

In the fields of environmental governance, industrial development, and institutional transition, CIDEG conducts various research projects and academic activities actively and expands its professional research team and network of scholars. In addition, CIDEG becomes one of the important think tanks in the reform and transformation stage of China.

From 2016 to 2020, CIDEG held five consecutive training sessions named “Summer Institute for China’s Green Innovation” training. 177 students from universities across China and some overseas universities, resulting in 49 environmental innovation programs. The CIDEG aims to help students gain the awareness of environmental protection and innovation, through intensive training, grassroots internship research, the training session disseminates the policy system, research results, tool cases, and local practice of environmental governance, green transformation, and sustainable development to young students, guiding the selected students to sort out the practice-issues and explore the cutting-edge issues. In view of the actual environmental problems such as bulk coal treatment, marine plastic pollution, urban black and stinky water, solid waste, etc., the CIDEG and researches in energy, and environmental governance, students publicized the technological and policy innovation scheme.

12.2.2 HIGHLIGHT
Research Institute for Environmental Innovation (Suzhou), Tsinghua University

On June 4, 2017, on the anniversary 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.
13.1 TSINGHUA DATA RELATED TO THE SDG13

**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: 248
- 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

**International Exchange and Collaboration**
- 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 University joined hands with the London School of Economics and Political Science, Australian National University, University of California 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 change. These universities responded to the initiative and jointly launched the Global Alliance of Universities on Climate (GAUC).

The GAUC was formally established in May 2019, and its members are spread across six continents, currently consisting of 39 world-class universities from nine countries: China, the United States, France, the 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 multilateral joint research on climate-related technologies, economics, and policies. In addition, GAUC promotes innovation and implementation of technology and policy solutions, develops joint education programs, and related curriculum systems, promotes global youth student exchanges and cooperation, raises public awareness, and mobilizes other climate actions through cooperation with multi-stakeholders.

To address the common challenge of global climate change, a first-class university must take the first-class responsibility. Through 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, ideas, culture, science, and technology in the wave of bottom-up action.

In November 2019, the first GAUC Graduate Student Forum was successfully held at Tsinghua University, hosted by Tsinghua University Graduate Student Association. On January 6, 2020, President Qiu Jinping wrote back to the student representatives of GAUC, expressing students’ active steps to care for the common global home of all mankind.

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 model of multidisciplinary joint teaching. Fourteen famous scholars from different fields, such as engineering, humanities, and arts, including academicians Qin H, Ni Weidong, Jin Yong, and Jiang H, 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, as well 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 view 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 Kelin, 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, Yangtse 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

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

14.2.1 HIGHLIGHT 1
Joint Research Center for Dianchi Plateau Lake

On the morning of May 16, 2018, the signing ceremony of the cooperation agreement of “Tsinghua University-Running Joint Research Center for Dianchi Plateau Lake” was held at the School of Environment, Wu Tai, then the Vice-Mayor of Kunming, and Liu Yi, then the Secretary of the Party Committee of the School of Environment, signed the cooperation agreement. The Center will conduct continuous, in-depth, systematic, and innovative research on the mechanism of cyanobacteria occurrence in Dianchi Lake. The Center is a key set of technologies for water pollution management and medium to long-term ecological and environmental improvement goals and strategic measures. Furthermore, the Center provides scientific and technological support for the scientific management of Dianchi Lake pollution macroscopic decisions.

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. The 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 couple system of the National Marine Environment Forecasting Center, the calculation software of multi-body 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.
### Talent Training

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### Scientific Research

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### Social Contribution

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### Cultural Inheritance and Innovation

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Protect, restore, and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, halt and reverse land degradation, and halt the loss of biodiversity.
15.2 CASES

15.2.1 TYPICAL CASE
Global Land Cover Data Product GLASS-GLC

On June 3, 2020, Professor Song Feng, a research team from the Department of Earth System Science at Tsinghua University, published a paper entitled “Annual dynamics of global land cover and its long-term changes from 1982 to 2015” in the Earth System Science Data, the top journal in the field of geology. They released the global long time series dynamic land cover data products from 1982 to 2015 to the world.

In recent years, as global environment changes, specifically human activities, have led to continuous changes in land use and land cover, effective monitoring and comprehensive analysis of global land cover and land use are urgently needed. However, global long time series, full category, and high precision land cover change data products are still lacking. To address this situation, Prof. Gong Hong team developed GLASS-GLC, a global land cover data product with 1-km spatial resolution and 34-year long time series with annual dynamics. As one of the key input parameters of the Earth system model, this product is of great value and significance for global environmental change and simulation studies, such as global carbon and water cycles, vegetation dynamics, and climate change, and biodiversity conservation. Moreover, as important basic data for agriculture and forestry production, land policy, urban construction, flood resilience, the prevention, and infectious disease transmission simulation, GLASS-GLC will also serve for ecological and resource environment assessment, management, and decision making to support the attainment of the SDGs.

The GLASS-GLC product is developed using the Global Land Surface Satellite (GLASS) climate data records from 1982 to 2015 as the data source. With the help of the Google Earth Engine platform, the product includes seven land cover categories, namely, arable land, forest, grassland, shrub,undra, bare land, snow, and ice. Based on the all-season universal sample library developed by the team and supported by the finite sample stability classification theory, the GLASS-GLC dataset collects tens of thousands of large consistent samples with global uniform distribution, high representativeness, and typically. Moreover, the dataset combines filtered reconstructed data cubes and four-dimensional spatio-temporal spectral feature cubes, including post-processing of spatio-temporal consistency after classification, which effectively ensures the reliability of data products and the validity of feature identification. The annual average accuracy of the GLASS-GLC dataset is 82.18% as verified by the global independent sample database, which provides users with the detailed spatial distribution of mapping uncertainties.
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 25.4% 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 BODS, petroleum, animal, and vegetable oils.
### SDG16
PEACE, JUSTICE, AND STRONG INSTITUTIONS

#### 16.1 TSINGHUA DATA RELATED TO THE SDG16

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Talent Training</strong></td>
<td></td>
</tr>
<tr>
<td>Number of undergraduate courses</td>
<td>211</td>
</tr>
<tr>
<td>Number of graduate courses</td>
<td>66</td>
</tr>
<tr>
<td>Number of graduate degree programs</td>
<td>5</td>
</tr>
<tr>
<td>Number of campus events (lectures, workshops, exchanges)</td>
<td>3452</td>
</tr>
<tr>
<td><strong>Scientific Research</strong></td>
<td></td>
</tr>
<tr>
<td>Number of research projects</td>
<td>304</td>
</tr>
<tr>
<td>Number of publications in Chinese and foreign languages</td>
<td>267</td>
</tr>
<tr>
<td>Number of university affiliated research centers</td>
<td>58</td>
</tr>
<tr>
<td><strong>Social Contribution</strong></td>
<td></td>
</tr>
<tr>
<td>Number of social training programs</td>
<td>64</td>
</tr>
<tr>
<td>Number of social training program participants</td>
<td>8132</td>
</tr>
<tr>
<td><strong>Cultural Inheritance and Innovation</strong></td>
<td></td>
</tr>
<tr>
<td>Number of news on Tsinghua University News (Chinese)</td>
<td>6826</td>
</tr>
<tr>
<td>Number of news on Tsinghua University News (English)</td>
<td>560</td>
</tr>
<tr>
<td><strong>International Exchange and Collaboration</strong></td>
<td></td>
</tr>
<tr>
<td>Number of international conferences</td>
<td>3</td>
</tr>
<tr>
<td>Number of international conference participants</td>
<td>384</td>
</tr>
</tbody>
</table>

Creating peaceful, inclusive societies for sustainable development, with access to justice for all and effective, accountable, and inclusive institutions at all levels.
16.2 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 strategic think tank leaders to discuss international security issues and find constructive solutions, which has been successfully held for eight sessions. The core value of the World Peace Forum is to provide forward-looking international security forecasts and suggestions for possible security cooperation. Moreover, the various forms of discussions provide a platform for participants to express different views and suggestions. In 2020, the World Peace Forum special video conference arranged four parallel sessions covering topics, such as the world order after the COVID-19 crisis, artificial intelligence in the post-pandemic era, Asia-Pacific security after the COVID-19 crisis, and China’s role in the post-pandemic era.

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 reference 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.
### 17.1 TSINGHUA DATA RELATED TO THE SDG17

<table>
<thead>
<tr>
<th>Category</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Talent Training</strong></td>
<td></td>
</tr>
<tr>
<td>Number of undergraduate courses</td>
<td>28</td>
</tr>
<tr>
<td>Number of graduate courses</td>
<td>5</td>
</tr>
<tr>
<td><strong>Scientific Research</strong></td>
<td></td>
</tr>
<tr>
<td>Number of research projects</td>
<td>145</td>
</tr>
<tr>
<td>Number of publications in Chinese and foreign languages</td>
<td>7</td>
</tr>
<tr>
<td>Number of university affiliated research centers</td>
<td>3</td>
</tr>
<tr>
<td><strong>Social Contribution</strong></td>
<td></td>
</tr>
<tr>
<td>Number of social training programs</td>
<td>18</td>
</tr>
<tr>
<td>Number of social training program participants</td>
<td>146</td>
</tr>
<tr>
<td><strong>Cultural Inheritance and Innovation</strong></td>
<td></td>
</tr>
<tr>
<td>Number of student associations</td>
<td>4</td>
</tr>
<tr>
<td>Number of news on Tsinghua University News (Chinese)</td>
<td>1499</td>
</tr>
<tr>
<td>Number of news on Tsinghua University News (English)</td>
<td>159</td>
</tr>
<tr>
<td><strong>International Exchange and Collaboration</strong></td>
<td></td>
</tr>
<tr>
<td>Number of international conferences</td>
<td>6</td>
</tr>
<tr>
<td>Number of international conference participants</td>
<td>357</td>
</tr>
<tr>
<td>Number of international agreements (during 2016-2020)</td>
<td>349</td>
</tr>
</tbody>
</table>
17.2 CASES

17.2.1 TYPICAL CASE
Institute for Sustainable Development Goals, Tsinghua University

The Institute for Sustainable Development Goals (TUDSG), 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. TUDSG is committed to conducting multidisciplinary cross-sectional research on the conceptual framework of the SDGs, policy implementation, and specific goals. In addition, TUDSG comprehensively provides experience exchange and mutual learning with relevant UN agencies and international counterparts in the field of the SDGs. TUDSG also strengthens its research capacity and policy learning on the implementation of the SDGs in countries and regions. Further, TUDSG strives to become a professional research institution with international academic influence in the field of the SDGs. As a research platform, TUDSG provides professional graduate degree programs and various short-term training programs through a new curriculum and flexible training processes to train policy professionals and provide comprehensive talents in the field of the SDGs for the international community. TUDSG also works closely with relevant Chinese government agencies to become the most influential high-end think tank in the field of the SDGs in China.

TUDSG has actively established networks with various institutions, such as the United Nations Sustainable Development Solutions Network, International Development Law Organization, Bot-Hindoor Center for Global Citizenship, Yvescup Global Innovation Institute, and Tsinghua 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, TUDSG 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, TUDSG conducts several studies, including the National Social Science Fund of China research on the construction of the evaluation system of the SDG Agenda for Sustainable Development and the path to its implementation. The National Social Science Fund of China research on the New Horizon to explore the realization of the institutional advantages of using full play to central and local institutional innovation. Research on the evaluation and outlook of the SGS research on the evaluation of the effect of the implementation of the policies of the National Sustainable Development Experimental Zones. Research on the development of the Guangdong Institute for Ecological Civilization Program (2015-2020) and Guangdong Ecological Civilization Institute, and Construction Program. Developing County Program for Practicing the 2018 Sustainable Development Agenda research on Chinese Enterprises. Promotion of the 2018 Sustainable Development Agenda, effectiveness and mechanism of China’s Environmental Protection Inspections research, SGS Education, Human Capital and Environmental Pollution. SDGS-oriented early education frameworks. Study on artificial intelligence. Artificial Intelligence and Global Sustainable Development; and Sustainable Food Systems and Land Use Pathways.

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 interconnected 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 Davis Forum” project was held. Then, in April 2017, Tsinghua University established the Asian University 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 IEA, was established in Indonesia to promote humanities 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, Road 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 SDG 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 “1+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 (UNSD) in January 2017, which has a total of 947 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.
**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

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of undergraduate courses</td>
<td>Courses for undergraduate students</td>
</tr>
<tr>
<td>Number of graduate courses</td>
<td>Courses for graduate students (including doctoral students)</td>
</tr>
<tr>
<td>Number of graduate degree programs</td>
<td>Academic degree and international degree programs for graduate students (including doctoral students)</td>
</tr>
<tr>
<td>Number of campus events (lectures, workshops, exchanges)</td>
<td>Number of cultural exchange activities organized by Tsinghua University for students both on and off-campus, faculty, and the public</td>
</tr>
<tr>
<td>Number of events aimed at developing students' global competency of overall campus events</td>
<td>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</td>
</tr>
<tr>
<td>Consulation for students with financial difficulties</td>
<td>Number of conversations with students with financial difficulties</td>
</tr>
<tr>
<td>Grants for students with financial difficulties (RMB)</td>
<td>Grants provided by Tsinghua University for students with financial difficulties, excluding research assistantships (research assistant, teaching assistant, and administrative assistant) and student loans</td>
</tr>
<tr>
<td>Number of students under difficulty receiving financial aid</td>
<td>Number of students receiving grants</td>
</tr>
<tr>
<td>Percentage of female undergraduates</td>
<td>/</td>
</tr>
<tr>
<td>Percentage of female graduates (master's degree)</td>
<td>/</td>
</tr>
<tr>
<td>Percentage of female graduates (doctoral degree)</td>
<td>/</td>
</tr>
</tbody>
</table>

### Scientific Research

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of research projects</td>
<td>Including scientific research, technical consultation, or development projects undertaken by Tsinghua University for the state, domestic, or foreign legal entities or their founding companies or representative organizations in China</td>
</tr>
<tr>
<td>Number of publications in Chinese and foreign languages</td>
<td>Published papers, monographs, teaching materials, and white papers (development reports)</td>
</tr>
<tr>
<td>Number of patents</td>
<td>Number of domestic and foreign patents applied for and granted</td>
</tr>
<tr>
<td>Number of research output transformation</td>
<td>Same concept as &quot;disposal of scientific and technological achievements&quot;, which refers to the number of technological achievements transformed into practical applications</td>
</tr>
<tr>
<td>Number of university affiliated research centers</td>
<td>Number of university affiliated research centers that serve the talent training and discipline cultivation, promote research innovation and interdisciplinary integration, and facilitate academic international exchange</td>
</tr>
<tr>
<td>Number of university-level think tanks</td>
<td>Number of university-level think tanks that can provide policy research support for government agencies</td>
</tr>
</tbody>
</table>

### Social Contribution

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of social training programs</td>
<td>Number of programs providing various types of non-academic training and education for the public</td>
</tr>
<tr>
<td>Number of social training program participants</td>
<td>Number of participants in training programs</td>
</tr>
<tr>
<td>Number of online courses (MOOC)</td>
<td>Number of courses conducted by Tsinghua University in the form of online teaching and open to the public</td>
</tr>
<tr>
<td>Number of online courses participants (MOOC) (person-times)</td>
<td>/</td>
</tr>
<tr>
<td>Percentage of off-campus learners enrolled in online courses (MOOC)</td>
<td>Percentage of non-Tsinghua students, staff, and faculty participating in online courses</td>
</tr>
<tr>
<td>Number of student team for social practice program</td>
<td>The number of social practice teams of undergraduate and graduate students. Social practice is an extracurricular learning unit in which school students use their time outside of school to conduct targeted fieldwork through school projects and simultaneously serve the construction and development of the local community.</td>
</tr>
<tr>
<td>Number of student participants in social practice program (person-times)</td>
<td>Number of students participating in social practice activities</td>
</tr>
<tr>
<td>Total water consumption on campus (m³)</td>
<td>Total annual water consumption on campus in 2019</td>
</tr>
<tr>
<td>Production and utilization of reclaimed water on campus (m³)</td>
<td>Total utilization of reclaimed water and seawater on campus in 2019</td>
</tr>
<tr>
<td>University floor space (m²)</td>
<td>/</td>
</tr>
<tr>
<td>Percentage of energy retrofitting floor space to university floor space in 2019</td>
<td>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</td>
</tr>
</tbody>
</table>

### Cultural Inheritance and Innovation

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of student associations</td>
<td>Mass cultural, artistic, and academic groups on campus formed and operated by students voluntarily</td>
</tr>
<tr>
<td>Number of news on Tsinghua University News (Chinese)</td>
<td>Number of news published on Tsinghua University News to share Tsinghua University's updates to the public</td>
</tr>
<tr>
<td>Number of news on Tsinghua University News (English)</td>
<td>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.</td>
</tr>
<tr>
<td>Number of protected cultural relics</td>
<td>/</td>
</tr>
</tbody>
</table>

### International Exchange and Collaboration

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of international conferences</td>
<td>International academic conferences and seminars and other activities hosted by Tsinghua University</td>
</tr>
<tr>
<td>Number of international conference participants</td>
<td>Number of participants in international conferences</td>
</tr>
<tr>
<td>Number of international agreements (during 2016-2020)</td>
<td>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)</td>
</tr>
<tr>
<td>Number of foreign visitors and exchanges (during 2016-2020)</td>
<td>Number of the faculty, staff, and students of Tsinghua University visiting and exchanging abroad (overseas) and overseas scholars and student visitors (during 2016-2020)</td>
</tr>
</tbody>
</table>

*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.*
ACKNOWLEDGEMENT

- Functional Departments Providing Original Data and Cases
  - Office of Green University Construction
  - Research and Development Affairs Office
  - Office of Development and Planning
  - Undergraduate Academic Affairs Office
  - Graduate School
  - Youth League Committee
  - Student Affairs Office
  - Graduate Work Department
  - Office of International Affairs
  - Office of Hong Kong, Macao and Taiwan Affairs
  - Office of Resources and Social Sciences
  - Office of Public Relations
  - Office of Technology Transfer
  - Tsinghua University Education Foundation
  - Office of Cultural Property
  - Office of Cultural Relics Research
  - Office of Lifelong Education Administration

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