National Taiwan University SDGs Report 2019
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In 2015, we all committed to achieving the United Nations “2030 Agenda for Sustainable Development” and its 17 Sustainable Development Goals (SDGs). The National Taiwan University in particular, is uniquely positioned within the free and open global community to aid in the effort of achieving the SDGs by contributing our solutions to ending poverty, fighting inequality and building a peaceful, just and sustainable society.

From democratizing information and educational opportunities across all society, to facilitating Indigenous and international knowledge exchange, the National Taiwan University goes beyond instruction, research, and policy-shaping alone. Instead, we aim to foster mindsets that embrace innovation and sustainability among our students, faculty, researchers, and the public. The decisions that our leaders of tomorrow will make, are influenced by the mindsets we cultivate today.

The National Taiwan University plays a crucial role in transitioning both local and global communities to our shared sustainable future. We recognize the exceptional duty we have to society to lead progress towards achieving the SDGs, and to those young minds who will in fact lead the way. Our commitment to do so is demonstrated in the National Taiwan University culture and the values with which we conduct our academic activities, research, and other endeavors.

The following report is an overview of the National Taiwan University’s contributions to achieving the SDGs. While not limited to the activities listed, this report includes many poignant examples that aim to convey the level of engagement that our faculty and students operate within. In many cases, the successes found in this report are the result of long-term collaborations between local communities, global partners, and an impassioned public with whom we freely progress toward our sustainable future together.

Sincerely

Ching-Hua Lo, Ph.D.
Vice President
University Anti-Poverty Programs

To provide further assistance and opportunities to the economically disadvantaged families, NTU admits students in the low and low to middle income households independently through the “Hope project.” NTU also created a Support Group and assigned tutors and teaching assistants to supervise students who are a part of the Hope Project. To help these students cope with academic difficulties, NTU provides individual academic counseling and group tutoring tailored to students’ needs.

To take care comprehensive needs of disadvantaged students, NTU promotes the NTU Comprehensive Support Program including skills achieving and enhancing, financial supports, academics improving, career exploring, as well as cultural or social services scheme. NTU also promotes Living allowance meal project, providing 4,000 NT Dollars per month for low-income students. In addition, low-income household students’ accommodation fees are reduced 100% and mid-low income household students’ fees are reduced 30%. NTU also provides rent subsidies for off-campus housing.

Community Anti-Poverty Programs

As one of the NTU student associations, the National Taiwan University - World Volunteer Society regularly serves rural areas in Taiwan, India and Nepal during the winter and summer vacations. The services include teaching students, environmental investigation and conservation, and accompanying the elderly.

In addition, some National Taiwan University departments have also implemented related actions. The Department of Public Health signed a collaboration agreement with Pingtung Christian Hospital to provide internship opportunities at Luke International’s Malawi office, participating in the local community health development programs that focus on AIDS, tuberculosis, hypertension, and other diseases. The College of Social Sciences team executed the Ministry of Health and Welfare’s project that provides advisory functions on the policy and practice facing homelessness and assists the government on creating specialized laws.
Facility Services

- Plant Teaching Hospital (both main hospital and Yunlin Branch) holds workshops about integrated healthy management of various crops and counseling services to local farmers.
- Agriculture Planning and Developing Research Center (APDRC) assists the government of Taiwan to conduct the Traceability Certification System for agricultural products, namely TAP products. APDRC has given policy reviews of the Traceability Certification System as well as suggestions to COA. The onsite works like reaching out to the full-time farmers and trainers cultivation are crucial to establishing substantial connections between the trainers and the farmers. In 2019, more than 400 intern trainers and 50 experienced trainers have been issued.
- Experimental Farm boasts a great variety of agricultural and husbandry equipment and has long been the main site for agricultural hands-on and practice courses. There are two Agricultural Exhibition Centers on the campus, exhibiting produce and dairy products which are known to be safe, clean and of good quality, therefore they are popular among staff and students of the University.

Campus Engagement

- NTU Farm and Office of Student Affairs have jointly developed the “Local Low Carbon Footprint Healthy Meal Box”, which uses fresh vegetables grown on NTU Farm, cultivated in a friendly environment, harvested on-site, and delivered to nearby restaurants for production.
- “Living allowance meal project” provides 4,000 NT Dollars per month for low-income students, lower-middle-income students, and the family in hardship students, which these disadvantaged students can spend at the stores and restaurants in NTU. In 2019, 348 disadvantaged students are provided with about $10,460,000 NT living allowance.
Current Collaborations with Health Institutions

- Dr. Sung-Liang Yu participated in the Cancer Moonshot project and collaborated with the CAP-certified Lab at the Medical Center of the University of Rochester to develop "Mass Spectrometry Assay for Serum Thyroglobulin". It is anticipated to build up the international standards of protein diagnostic tests in Taiwan.
- The National Taiwan University Children and Family Research Center(CFRC) has cooperated with Zang, a doctor from the division of Geriatric Psychiatry in Mackay Memorial Hospital, to stress the issue of gaming disorder and Internet addiction since 2019.

Health Outreach Programs

Delay in medical treatment is a problematic phenomenon in Yunlin County, where transportation systems, general income, and medical educational levels are making behind other counties. To overcome the medical deficit, National Taiwan University Hospital’s Yunlin branch initiated the “Apollo Project.” By installing remote watch systems in the elderly canteens, coordinate with local clinics, and establishing the Apollo Volunteer Physicians Task Force.

The project connected resources from the industry, the government, the academic, the research field, and the medical field, and expand them into health-promoting intervention plans that significantly slow the elderly’s debilitating conditions, and raise the health awareness among them to achieve the effect of early medical treatment.

Mental Health Support

- Services of individual psychological counseling are provided to all NTU students for free. Our individual counseling is on an appointment basis. English-speaking counselors are available for students who do not speak Mandarin.
- NTU Health Center sets up a physical and mental clinic to help solve the mental, emotional, interpersonal, and sleep problems of the students, faculty, and staff. In addition, the student group insurance has added a new medical subsidy for mental illness clinics (a national initiative of colleges and universities), so that students who are concerned about psychological counseling and psychiatric clinics on campus can also choose to receive treatment at off-campus professional medical institutions to encourage students active treatment.
Public Resources (Lifelong Learning)

NTU has made great effort to provide open educational resources for our students and the public, to cultivate self-learning and life-long learning in both university and the society. Up until today, NTU has provided over 2,600 speech videos on NTU SPEECH website, over 200 open courses on NTU OpenCourseWare (OCW) website, and 58 high-quality MOOCs on Coursera. Moreover, the NTU OCW website has attracted over 16 million views, democratizing educational opportunities and further facilitating knowledge exchanges.

Public Events (Lifelong Learning)

The # MeToo in East Asia Forum that took place on October 28, 2019 was an elaborate effort to systematically explore #MeToo movement's development and divergence in East Asia. By inviting scholars and activists from China, Hong Kong, Japan, Korea, and Taiwan, Global Asia Research Center (GARC) aimed to achieve a cross-referential understanding of the legal, social, political, and cultural implications of the movement, as well as to trigger public awareness about this movement in Taiwan.

Education Outreach Activities Beyond Campus

NTU Science Innovation School (NTUSIS) attracts global talents in research learning and cultural exchange beyond campus. 47 international (Indonesia, India, Japan, Malaysia, Nepal, Russia, Thailand, and Vietnam) and local high school students presented their research in the fields of Quantum Computing and Life Science after a week of intensive study at NTU. Directed by Prof. Chao-Ming Fu, Department of Physics, NTUSIS included faculty from the Department of Physics, Prof. Hsi-Sheng Goan, Department of Life Science, Prof. Chau-Ti Ting, College of Medicine, Prof. Han-Yi Chou, and Department of Electrical Engineering, Prof. Hung-Yi Lee. This program enhanced participants’ scholastic and cultural appreciation.

Every winter and summer, the social service team organizes community courses for rural elementary schools, or the alumni association returns home to organize various themed life camp activities for students, including after-school tutoring, English teaching, dance teaching, science teaching, musical instrument teaching, etc.
2019 Female Graduates from STEM, Medicine, Arts & Humanities/Social Sciences

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<thead>
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<tr>
<td>STEM</td>
<td>28.8%</td>
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<tr>
<td>Medicine</td>
<td>52.8%</td>
</tr>
<tr>
<td>Arts &amp; Humanities / Social Sciences</td>
<td>54.4%</td>
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2017–2019 Student Composition: female remains at 40%

Honors
Professor Yng-Ing Lee and Associate Professor Haojia Abby Ren are Honored 2019 Taiwan Outstanding Women in Science Awards.

Support Measures
NTU “Rules of Handling Cases of Sexual Discrimination in the Workplace” is to protect the rights of the victims when cases are reported. The Rules stipulate:
1. Setting up a dedicated telephone number and e-mail address for reporting.
2. Conducting the investigation procedures of reported cases in a private manner, and request the relevant units in the University to handle appropriately according to the investigation results.
3. If the individual has counseling or medical needs, he or she may refer to the relevant facility or specialized agency of the University.

- "National Taiwan University Directions for Managing Gender Discrimination Cases at Workplace" is adopted to build a gender nondiscrimination working environment. There is a sexual harassment prevention resource center on NTU Personnel Department’s website.
- "NTU Regulations for the Establishment of Gender-Inclusive Restrooms" promotes gender-neutral restrooms which must be established in new buildings and conditionally improved in existing buildings. There is a handbook served as a reference for the planning and designing of gender-inclusive restrooms. As of 2019, a total of 11 buildings have been established Gender-inclusive restroom.
- The female doctoral students of the Geography Department can extend the doctoral qualification examinations when giving birth or undertaken significant responsibilities for a newborn child.

Overall Research Performance in 2016–2019

- Scholarly Output: 22
- Views Count: 5,184
- Citation Count: 1,742
- Field-Weighted Citation Impact: 17.22
Water Management

Our campus has over 30,000 visitors every day. Vegetation accounts for 737,646 square meters of the campus, an area equivalent to the size of 3 Daan Forest Parks. This requires a lot of water. In 2018, we started replacing the water meters in our buildings with digital meters. In 2019, we installed a digital monitoring system to strengthen the monitoring of our water consumption, and minimize water waste. This new system helped identify water leakage in the basement of the Core Subjects Classroom Building, after which the building’s water consumption significantly decreased. Also, in order to reduce the consumption of tap water, we are setting up rainwater recycling facilities in our buildings or on vacant spots on campus. New constructions also include rainwater recycling systems, which collect rainwater for the irrigation systems, or channel rainwater into our largest campus pond, ‘the Drunken Moon Lake’. Following these efforts to effectively monitor, conserve and recycle water resources, our water consumption decreased by 4.9% in 2019.

Water Management Educational Opportunities

Prof. Chih-hao Fan's project "Operating and Management of Water Environment Patrol", sponsored by Taiwan EPA, is designed to educate the local communities to learn about good water management and pollution reduction. The project led to the forming of a national water patrol team, openings of three water environment conservation centers located in the north, central and south of the island. It offers citizens an opportunity to protect water resources on the front line and ensure water quality. The project includes water environment conservation advocacy at schools, educating citizens on water environment conservation.

Off-Campus Water Conservation Support

Prof. Shang-Lien Lo leads the Water Innovation, Low-Carbon and Environmental Sustainability Research Center to conduct the "Food-Water-Energy Nexus" project, which has garner a 3-year contract with Belmont Forum. The project focuses on integrating water technology, including innovative water technology and water resources safety management, and serves as an educational platform for the subject area, cultivating professional talents to elevating the country's overall understanding and development of water technology.
Carbon Reduction and Emission Reduction Process

NTU started implementing the “Greenhouse Gas (GHG) Monitoring Project” in 2010, and has successfully acquired its GHG Emissions Verification Opinion Statement, becoming the first public university to complete the verification procedures and be certified by an outside entity. To improve NTU’s environmental protection management and to reduce carbon emissions, the Environmental Protection and Occupational Safety and Health Center continues to monitor greenhouse gas emissions each year.

Divestment Policy

As of 2019, we are committed to divesting from high pollution industries, becoming the first university in Asia to do so. Consequently, we have begun to sell shares in such industries, especially the cement and petrochemical industries. A portion of the funds has been directed to enterprises with stable dividends and exceptional corporate social responsibility (CSR) performance, in order to ensure profits and improve the sustainability of investments. This year (2020), we established the ‘Principles for Selecting Domestic Stocks for Sustainable Investment’, with the aim of targeting primarily such enterprises that have a sustainable business model and fulfill their CSR goals. Currently, we prioritize enterprises that are included in the CSR ranking compiled by CommonWealth Magazine. In the near future, in accordance with the Principles for Responsible Investment (PRI), we will incorporate environmental, social, governance (ESG) issues into all investment decisions. In 2019, sustainable investment accounted for nearly 75% of our endowment funds – demonstrating our resolve to promote sustainable development through our investment decisions.

### Overall Research Performance in 2016–2019

| Scholarly Output | 709 |
| Views Count     | 20,748 |
| Citation Count  | 6,950 |
| Field-Weighted Citation Impact | 1.36 |

### Electricity consumption (kWh)

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<td>2019</td>
<td>156,000,000</td>
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Commenced on March 9, VISION 2019 raised the curtain on a series of activities and events. President Kuan Chung-ming presided over the opening ceremony and invited a distinguished guest, Mark Liu, the chairman of Taiwan Semiconductor Manufacturing Company (TSMC), to address the ceremony on behalf of the industrial enterprise. Chairman Liu is an alumnus of NTU Department of Electrical Engineering who made important contributions to the industry by improving the yield rate for semi-conductors. For his accomplishments, he was awarded the title of 2017 NTU Distinguished Alumnus. In his address, Liu encouraged students to engage in interdisciplinary studies as well as life-long learning in order to better prepare to face future challenges.

With the advent of Big Data, AI, IoT, and cloud computing, a host of new technologies are impacting every sphere of human life and reshaping the workforce. Against this background of rapidly evolving new technologies, the theme for this year’s career fair is “Interdisciplinarity, Innovation, and Integration: Drivers of Future Careers.” In his remarks to the ceremony, President Kuan shared his vision for the university. With “NTU 2028, marching towards the centennial” as a blueprint, NTU’s development will be focused on two key areas: globalization and transformation.

NTU Career Fair: VISION 2019 received full support from business enterprises and students. 297 enterprises participated in the event. 283 businesses set up a total of 423 booths in hopes of attracting future talent. The event also featured employer presentations by 68 companies as well as opportunities to visit 21 corporations. At VISION 2019, students learned about the latest developments and trends in the industry as businesses seized this opportunity to recruit potential talent. The event successfully connected students and employers and had over twenty-five thousand career opportunities on offer.
Spin-Offs

There are 5 spin-offs with institutional ownership, and 10 companies set-up to capitalize on intellectual property that has originated from NTU.

Industry Income from Industry

Total NTU Returns on Research & Development is $10.64 billion NT.

The number of academic staff is 2589.7.
NTU Hope Program

Higher education serves as an important catalyst for promoting social mobility and bridging the gap between rich and poor. This kind of social responsibility is important for a university such as NTU. We believe that besides academic excellence, it is important to contribute to a more equal distribution of social resources. In 2015, we launched the ‘NTU Hope Program’ for students from underprivileged families. As of 2019, we are gradually increasing the number of students enrolled through this program, with the goal of doubling the number of Hope students in two years and tripling the number in four years. For students who are struggling with adversity, yet are willing to care for their fellow human beings, we offer various opportunities for financial support, counseling, and other assistance.

These programs aim at easing the economic burden on students and their families, as well as take care of students’ needs in their everyday lives and their studies, including helping them secure internships and facilitating integration into the job market. The Hope Program brings together the resources of our various offices, with each unit implementing contributing according to their respective missions and expertise. The program spans across four main areas, in order to make sure that students from less privileged backgrounds are well taken care of in terms of their studies, life and future: (1) Hope Admission; (2) Hope Assistance; (3) Hope Care; and (4) Hope Employment.

Campus Diversity and Equality

We have several committees and grievance mechanisms in place, which promote diversity and inclusiveness on campus. Each of these units has formulated and implemented various programs that support a friendly campus. For example, NTU Workplace Sex Discrimination Grievance and Appeal Committee and NTU Sexual Harassment Prevention and Resolution Committee: These committees aim to protect the work rights of faculty and staff, provide a work environment free of gender discrimination, prevent sexual harassment, and protect the rights of victims.

- Gender Equality Education: Promotes gender equality education on campus in hopes of creating a friendly campus environment.
- Special Education Implementation Committee: Integrates resources, plans and develops special education strategies, and improves the infrastructure and design of handicap-accessible environments in order to respond to the characteristics and needs of students with special needs and to promote special education at NTU.
- Campus Planning Office Committee: Formulates directions for friendly campus planning to promote campus diversity, anti-discrimination, and assistance for the underprivileged, including human-oriented traffic/sidewalks/public bicycles, handicap-accessible spaces and facilities, gender-friendly spaces, the campus signpost system, and a friendly international environment.
The NTU Museums are a free and open-to-the-public network of 10 galleries and exhibition halls among various campus locations that house specimens, literature, and cultural artifacts from NTU’s recent past. NTU faculty, students, and visitors are encouraged to walk and bike on campus, while vehicle traffic use is restricted on campus. The NTU campus and its green spaces are easily accessible as NTU is near subway and bus public transportation stations as well as public use city bicycle stations.

Arts and Heritage
NTU founded “NTU Museums”, integrating a tremendous wealth of specimen, literature, and cultural pieces dated from 1928, for general public access. Among NTU Museums, the NTU History Gallery, the Museum of Anthropology, the Insect Museum, and the Museum of Medical Humanities are housed in nationally recognized historical monuments, while the NTU Agricultural Exhibition Hall is located in a nationally recognized historical building. Access to all museums is admission free and open to the general public.

Sustainable Practices
The NTU campus is close to two Taiwan Mass Rapid Transit (MRT) subway and bus stations. There are public bicycles around the campus to facilitate the transfer between on-campus and off-campus public transportation. NTU also provides inter-campus transportation for faculty, staff, and students between the main campus and the NTU medical campus. NTU encourages its faculty, staff, and students to use public transportation to commute. NTU also has a policy in place to reduce motor vehicle traffic inside campus through the restricted use of parking spaces.

NTU has a people-oriented transportation policy on-campus. Pedestrians and bicycles have the right-of-way on on-campus roadways. NTU encourages its faculty, staff, and students to walk or use bicycles on-campus, and to use public transportation to reduce on-campus parking space requirements.

In 2019, NTU cooperated with the Transportation Bureau of Taipei City Government to promote the “Taipei City Public Bicycle Rental System Upgrade YouBike 2.0 Pilot Project”, providing 500 shared bicycle vehicles and establishing 102 stations within the pilot area. 1,800 pillars help reduce the number of abandoned and unused private bicycles inside and outside the school, and make the city’s green transportation service network more convenient.
NTU prioritizes green procurement of products and services according to Taiwan's Environmental Protection Agency. NTU restaurants use environmental friendly tableware, have banned plastic straws and melamine tableware, and require payment for plastic bags. NTU student clubs also promote plastic reduction on campus through projects and initiatives such as the “Better-cup rental system” and the “Unpacked store” which promote tableware borrowing. Recycled waste on NTU is nearly one-third of total waste, an increase of 8.9% over last year.

Operations
- The Taiwan Environmental Protection Agency has promoted a green procurement policy since 2002, and NTU is obliged to buy products with less impact on the environment. Since 2011, NTU gives priority to purchasing the products or services provided by welfare institutions, groups with disabilities, or sheltered workshops according to the rules of “People with Disabilities Rights Protection Act”.
- Since 2006, NTU restaurants have provided environmentally friendly tableware for customers. The use of disposable tableware was restricted in 2008. If disposable tableware and plastic bags are needed, customers must pay $1 NT for each plastic bag. In addition, since July 2019, disposable plastic straws and melamine tableware are not provided. NTU also gifts a set of reusable cutleries to freshmen students, encouraging them to protect the environment.
- The NTU Roots & Shoots, one of the student clubs in our university, has been promoting tableware borrowing services on campus for many years, encouraging teachers and students to borrow tableware. In 2018, a group of NTU students launched a “Better-Cup Rental System” to reduce the use of disposable cups. In 2019, They also continued the Green Lunch Box event. They set up several locations on campus to provide students with free loan of iron lunch boxes to take out meals. They hope to improve the convenience of environmental protection and help reduce garbage on campus. On NTU campus plastic reduction is a common and natural way of life.

Organization & Sustainable Report
NTU has a sustainable development center and established a dedicated fundraising team to promote university social responsibility. NTU also has generated and issued the 2019 Social Responsibility and Sustainability Report (the “USR Report”) on June 23, 2020. It is our first USR Report. The report details NTU's actions in campus governance, education, research, services, as well as our sustainability vision and blueprint.
Commitment to Carbon-Neutral University

On June 23, 2020, NTU’s President Kuan announced that NTU has pledged towards the Paris Agreement of limiting the global temperature rise to 1.5°C, and set its carbon reduction targets according to the Science Based Targets Initiative (SBTi). NTU pledges to reach 50% of carbon neutrality (both scope 1 and 2 emissions) by its centennial in 2028 and achieve complete carbon neutrality by 2048. Following SBTi criteria, NTU will propose carbon reduction targets as well as the roadmap and measures to reach these targets within 12 months. Meanwhile, we will also promote research on carbon neutrality, including the development of alternative energies and the management of forest health to increase carbon sequestration.

From Researches to Climate Services and Policy Supporter

- A research project entitled “Development of Integrated Water Supply and Drainage Model and Climate Adaptation Service Platform for Sustainable Rural Community” sponsored by the Ministry of Science and Technology (MOST) to support SDG 6, 11, 13, and 17 on developing adaptation capacities on climate change at a community-wide scale by considering the water supply and drainage systems to reduce the impacts of the drought disaster.

- The Risk Society and Policy Research Center (RSPRC) hosted the new book symposium with the theme of Citizens Power Plant in Ludi Community College. This event mainly discussed the context of Taiwan’s energy policies and the energy transition stories that were taking place, as well as expectations for future policy development with ‘people power energy cooperative’ founded by students in Ludi Community College.

- Prof. Yih-Min Wu of the Department of Geosciences developed a seismic early warning system that is able to send out alerts to places 10 to 30 seconds prior to the hits of seismic waves. The system provides great benefits to the government and people in disaster reduction and the economy. The development of this system has also been successfully extended to many countries around the world, enhancing our country’s international social influence.
Hui-yu Wang executed the project discussing the Pacific Northwest Hairtails' living and the sustainability of the fishery. The project collected present and historical data to predict the changes in fish groups' life and ecological evolution mechanism under the influence of warming and fishery.

Marine Environment

- The Underwater Acoustic Lab has projects on the underwater acoustic experiment to monitor marine mammal damage by the offshore wind construction process. The suggestions are provided such as pilings should be conducted during the day and confirmed no marine mammal in the noise exclusion zone 30 minutes beforehand, etc., to reduce underwater noise impact on marine mammals.

- Vianney Denis is building a virtual museum of the scleractinian corals' collection from the NTU museum of zoology. He also established photogrammetric plots to provide educative tools for 'virtual dives'. These activities are to reduce human stress on Taiwanese reefs.

- Hui-yu Wang executed the project discussing the Pacific Northwest Hairtails' living and the sustainability of the fishery. The project collected present and historical data to predict the changes in fish groups' life and ecological evolution mechanism under the influence of warming and fishery.

Freshwater Environment

- Chih-hao Hsieh has been conducting chronicle observation of the Fei-Tsui Reservoir's ecosystem since 2008, providing information on the diversity of phytoplankton, zooplankton, and microbes.

- Yuan-Nan Chu, K. C. Liao, Yan-Fu Kuo, and their students are using underwater cameras and Convolutional Neural Networks (CNN) to locate the shrimp and detect the length of the shrimp, so as to automatically calculate the length of the shrimp which is essential to feed intake. The optimization system can improve the problem of feed waste, thereby improving the efficiency of aquaculture.

- Jiing-Yun You worked with the Water Resources Agency to provide an evaluation of watershed management practices and strategies. The study constructs a framework to delineate the economic benefit from a reservoir watershed conservation strategy, then founds the parameters database and template of economic benefits assessment. The works include reviewing critical parameters in economics and physics, suggesting the discount rate to watershed conservation, constructing the initial database and its analytical template.

Water Discharge of the Campus

The facilities with more laboratories are equipped with water quality monitors that collect wastewater's pH and conductivity which allows real-time monitoring of the wastewater discharge conditions. NTU contracts testing institutions to conduct sampling, testing, and analysis at every testing site at least once a year to ensure the discharged wastewater meets relevant standards.
Experimental Forest

NTU Experimental Forest covers 32,770 Ha. The current total stock volume in the Forest is approximately 2,943,951 cubic meters. NTU Experimental Forest conducts animal and plant surveys annually. In 2019, the NTU Experimental Forest established the National Plant Food and Agriculture Education Center in Xinyi Township, Nantou County. In addition, the Forest administration worked with relevant authorities to rebuild 47 management facilities that had been damaged due to natural disasters and promote forest protection and sustainable use.

Highland Experimental Farm

In 2019, the Highland Experimental Farm, located in one of the indigenous tribal areas, signed a memorandum of cooperation with a local tourism promotion association formed by local residents to develop eco-tourism, environmentally friendly agriculture, and traditional craft industries. In 2019, the farm held experience camps for local elementary and middle-grade students, such as an introduction to traditional Seediq culture and the symbiotic relationship with the environment, as well as identification and observation of wild vegetables.

Ecosystems on Campus

NTU works directly to maintains in-campus ecosystems and their biodiversity. In 2019, NTU’s Office of General Affairs continued to work with the Department of Entomology and list prevention of lychee giant stink bugs as one of the main working items. The invasive lychee giant stink bugs were first spotted on campus in 2014. They feed on Sapindus plants such as Taiwan Luan, lychee, longan, and other trees that are common on campus.

Dining Services Committee

- NTU’s “Sustainable Campus Management Project,” listed food as one of the main items to be enforced. It is committed to providing locally-grown, eco-friendly, and healthy food to NTU members.
- Since 2006, NTU cafeterias and restaurants only provide reusable tableware for dine-in customers. Since 2008, NTU cafeterias and restaurants stopped providing free throwaway tableware to customers. Each utensil and plastic bag costs NT$ 1. Starting from July 1st, 2019, it is prohibited for any in-campus restaurants to provide melamine tableware or single-use straws to dine-in customers. NTU gifts a set of reusable cutleries to freshmen students, encouraging them to protect the environment.
Policy and Lawmakers Outreach and Education

Risk Governance Workshop—Launched SDG to promote forward-looking transition in Taiwan: Co-hosted by National Audit Office and the RSPRC, the event invited scholars from different sectors to explain the characteristics of SDGs and put forth the challenges of social, technological, economic, environmental and political changes that may be faced. They also pointed out the importance of Taiwan’s sustainable development goals and the necessity of proposing mid- and long-term visions, and call on all ministries and committees to be active to develop the core objectives of each SDGs and actively implement the necessary policy tools.

The event aimed to provide workers in the public sector insight into what role the governmental audits can play to help the government achieve the SDGs.

Provide Expert Advice to Government

Prof. Ray-E Chang of the College of Public Health participated as an expert in the “feasibility assessment meeting” of the Taipei City Government regarding the construction of social housing for the elderly, and provided professional advice. The goal of the meeting was to provide affordable housing to elderly people in Taipei and sufficient care for their needs.

Neutral Platform to Discuss Issues

NTU’s Risk Society and Policy Research Center held the forum “Taiwan in Transformation: Initiating a Long-Term Energy Transition”. At the Forum, the Industrial Technology Research Institute’s Green Energy and Environment Research Laboratory’s Vice Director Hong-Tai Lee analyzed how to integrate the resources of industry, government, and academia to accelerate Taiwan’s energy transition. During the final discussion, the industry, government, and academia were invited to talk with the team in hopes of promoting more citizen participation, and studying specific actions that all stakeholders can take to jointly promote Taiwan’s long-term energy transformation.
International Cooperation

The Research Center for Future Earth at NTU hosted the 10th Belmont Forum in 2019, co-organized with the Ministry of Science and Technology, MOST. The two chairpersons of the meeting are from the National Science Foundation and the Natural Environment Research Council respectively. They led the participants to review the growth trajectory of the Belmont Forum over the past ten years at the 10th Anniversary Meeting. They also discussed how to self-adjust and improve related issues in response to the changes in the global environment in the next ten years. In addition to reviewing existing work, the forum agenda is more focused on achieving the 2030 Agenda for Sustainable Development and the SDGs proposed by the United Nations. The members also proposed various interdisciplinary research initiatives in the face of global environmental changes, including Beyond the Paris Agreement, Urban Blue and Green Spaces, Urban Transformation Capacities, Sustainable Consumption, Africa Regional Call, Migration, Sustainable Desert Cities, and other issues.

NTU Hospital and the International Cooperation and Development Fund (ICDF) collaborated in the “Promotion of Medical Technologies to Improve Maternal and Neonatal Health Outcomes in Guatemala Project” to provide medical and public health assistance to women and children in Guatemala, a diplomatic ally of Taiwan. Since 2016, in carrying out this medical assistance project, the NTU Hospital has dispatched obstetric and neonatal specialists to Guatemala, initiated a close collaboration with two Guatemalan public hospitals, and organized local workshops. In 2019, Guatemalan President Jimmy Morales Cabrera and the First Lady visited NTU Children's Hospital on May 1, where they were received by the top administrators of NTU Hospital. This collaborative project has not only improved public health and medical quality for women and children in Guatemala, it has also strengthened the bonds of friendship between peoples of these two nations.
Period Covered: 2019/1/1 ~ 2019/12/31

Overall Research Performance:

Note 1: Data retrieved from Elsevier SciVal.

Note 2: The Field-Weighted Citation Impact (FWCI) compares the actual number of citations received by a publication with the expected number of citations for a publication of the same publication year, subject area, and type. A value above 1 indicates that the citation frequency is above the global average.