國立成功大學 National Cheng Kung University (NCKU)
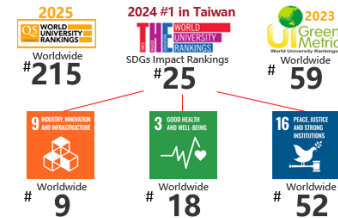## NCKU AT A GLANCE

9+2 Colleges
- Bioscience & Biotechnology
- Electrical Engineering & Computer Science
- Engineering
- Liberal Arts
- Management
- Medicine
- Planning & Design
- Sciences
- Social Science
- Miin Wu School of Computing
- Academy of Innovative Semiconductor & Sustainable Manufacturing

University
- 22,311 Students
- 2,267 Staff
- 2,224 Faculty
- 210,000+ Alumni

台北 Taipei

CNN travel — 24 Best Places to Visit in 2024

Affiliated Hospital
- 4,859 Staff
- 1,342 Beds

台南 Tainan
Southern Taiwan Science Park

Key Partners in Japan
京都大学 大阪大学 OSAKA UNIVERSITY 筑波大学 University of Tsukuba 東京工業大学 Tokyo Institute of Technology 東北大学 北海道大学 HOKKAIDO UNIVERSITY

Top 1% in ESI – 16 Fields

#1
- Engineering
- Molecular Biology & Genetics

#2
- Computer Science
- Environment/Ecology
- Social Sciences, General

#3
- Geosciences

...and 10 other fields

Research Highlights
Environment | Energy | Healthcare
Quantum | Space | Physics

NCKU World Ranking
- 2025 QS World University Rankings — Worldwide #215
- 2024 #1 in Taiwan — THE World University Rankings, SDGs Impact Rankings #25
- 2023 UI Green Metric — Worldwide #59
- SDG 9 Industry, Innovation and Infrastructure — Worldwide #9
- SDG 3 Good Health and Well-Being — Worldwide #18
- SDG 16 Peace, Justice and Strong Institutions — Worldwide #52

開場

Ladies and gentlemen, Good day! I am Sun-Yuan Hsieh, a Chair Professor and the Vice President for International Affairs of National Cheng Kung University. I will give a very brief introduction to NCKU and our practices to achieve SDGs.

-----上圖順序說明------

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        4 5 6

中間上 **CNN 24 Best Places to Visit in 2024** 黑面琵鷺與右下 **NCKU World Ranking** 世界排名

1. (先輕鬆開場，因此故意先講 block 1) NCKU is located in Tainan City, which has just been selected by CNN as one of the 24 best places to visit in the world. It is because the 400-year-old Tainan City is not just culturally rich, but also rich in ecology. For example, during the winter season, the endangered Black-Faced Spoonbill will fly from South Korea to Taiwan to spend their winter at the "曾文 River" of Tainan City. On the other hand, NCKU is ranked #215 in QS ranking, and has high achievement in meeting United Nation's SDG. Specifically, NCKU is ranked as #1 in Taiwan (and #25 in the world) according to the latest THE SDGs Impact Rankings, and also ranked globally 9th in SDG 9, 18th in SDG 3, and 52nd in SDG 16, along with a notable 59th place in the UI Green Metric global ranking.

左上 **University & Affiliated Hospital** 人數概況

2. Currently, we have more than 2 thousands faculty members and more than 22 thousands students, and this scale ranks NCKU as the second largest university in Taiwan. We also run our own NCKU hospital, which not only has the highest surplus among public hospitals in Taiwan, but also enriches our geriatric medicine research power that is also critical for current Japan's society.

右上 **9+2 Colleges** 學院概況

3. Besides 9 traditional colleges, including College of Medicine and College of Engineering, etc., NCKU has two newly launched colleges. One is AISSM, the Academy of Innovative Semiconductor and Sustainable Manufacturing, which is for all kind of semiconductor researches. The other is Miin Wu School of Computing, which is for law-related AI and brain-related AI researches, sponsored by the Macronix Electronics.

左下 **Top 1% in ESI – 16 Fields (ESI 概況)**

4. According to the ESI ranking, we have 16 fields that are ranked within the Top 1%, including those key areas like "Computer Sciences" and "Material Sciences", etc.

And if we are focused just on the Engineering area, we are proud to claim that NCKU is ranked as #1 in Taiwan. This fact well echoes the historical milestone that

the first college of NCKU is the College of Engineering.

中間下 **Research Highlights** 研究亮點

5. Beside 6 featured research centers, which are highly selective by Taiwan's Ministry of Education, we also have numerous internationally well recognized research fields. Due to time limitation, let me just name two representative examples. For example, in the space exploration area, we are very well cooperated with Kyoto University to jointly develop radar satellite technologies, and closely worked with industry and government to deliver the AMS system, which has been noticed by the Head of the Department of Physics at MIT and NASA's Director of International Space Station. For another example, our quantum research center, known as QFort, has remarkable research achievements, including one single professor publishing 6 papers on Nature over the past 5 years. The third example, our center for shrimp aquaculture stands as Taiwan's sole reference laboratory recognized by the World Organization for Animal Health (OIE) for two shrimp diseases: White Spot Disease (WSD) and Acute Hepatopancreatic Necrosis Disease (AHPND).

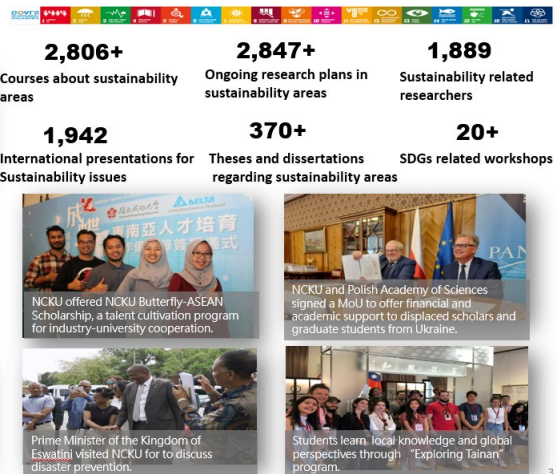### 右下 **Key Partners in Japan** 日本重要夥伴

6. Besides Kyoto University mentioned above, we have many partner universities in Japan, such as Tokyo Tech, Tsukuba University, and Kumamoto University.

IN 2023
TO STEP TOWARD TO SDGS, WE REALIZE

Taiwan Studies & Cultural Implementation

YouTube | PODCAST | AR setup in front of the Fort Zeelandia Museum to experience 400 Years Time-traveling.

臺灣學 | 南視角

2,806+ Courses about sustainability areas

2,847+ Ongoing research plans in sustainability areas

1,889 Sustainability related researchers

1,942 International presentations for Sustainability issues

370+ Theses and dissertations regarding sustainability areas

20+ SDGs related workshops

Global Views Magazine University Sustainable Awards ■ Taiwan #1 2024 2023 2022

CommonWealth Magazine University Citizenship Awards ■ Taiwan #1 2023

Social Influences & Sustainable Communities

NCKU offered NCKU Butterfly-ASEAN Scholarship, a talent cultivation program for industry-university cooperation.

NCKU and Polish Academy of Sciences signed a MoU to offer financial and academic support to displaced scholars and graduate students from Ukraine.

Prime Minister of the Kingdom of Eswatini visited NCKU for to discuss disaster prevention.

Students learn local knowledge and global perspectives through "Exploring Tainan" program.

(左半邊) 社會責任

為了推動文化落實，我們建立了一個台灣研究資料庫，並利用新媒體，例如 **YouTube** 頻道、廣播，以及新技術如增強實境（**AR**）和虛擬實境（**VR**），使學生們能深入了解台灣的歷史及其與世界的互動。

成功大學 **USR** 實踐為校務推動與發展的重要核心，我們在 **USR** 的表現獲得卓越雜誌的肯定

此外，我們也致力於連結培育在地人才，結合政府資源和 **USR** 計畫。例如: 精進學校午餐、建構一個高齡者與非高齡者之間彼此互動與支持的社會結構、以及協助極限村落發展在地經濟。

Social Responsibilities

To promote cultural implementation, we have established a database for Taiwan Studies and utilized new media such as a YouTube channel, podcasts, as well as new technologies like AR and VR, to bring students to connect deeply with Taiwan's history and its interactions with the world.

We have received top 1 prizes in Taiwan regarding to University Social Responsibility Awards.

Furthermore, we are committed to connect and nurture local talents by integrating government resources and Social Responsibility (USR) projects, such as improving school lunches in rural areas, establishing social supportive systems, and promoting the development of local economies in disadvantaged communities.

(右半邊) 永續教育

響應聯合國永續發展目標**(SDG)**，統計至 **2023** 年，我們有超過 **2800** 門永續領域的課程和進行中的研究計畫、**1889** 永續相關研究人員、以及許多永續相關的國際論文和工作坊也持續進行中。

此外，我們致力於建立永續多元的夥伴關係，例如:

透過 **NCKU Butterfly** 成蝶計畫: 促進東南亞人才培育，增進學生與產業接軌的實務技能。

成大與波蘭科學院 **Polish Academy of Sciences**（**PAS**）簽署合作備忘錄，提供資金以協助烏克蘭學者及研究生延續教育研究計畫。

史瓦帝尼王國的總理訪問 **NCKU**，探討災害預防技術教育，以及政府單位、地方社區和專家團隊之間的災害控制。

透過踏溯台南課程，學生培養本土知識以及全球視野。

Sustainable Education

In response to the United Nations Sustainable Development Goals (SDGs), as of 2023, we have offered over 2,800 courses in sustainability-related fields and ongoing research projects. We also have 1,889 researchers engaged in sustainability-related studies, along with numerous international papers and workshops focused on sustainability.
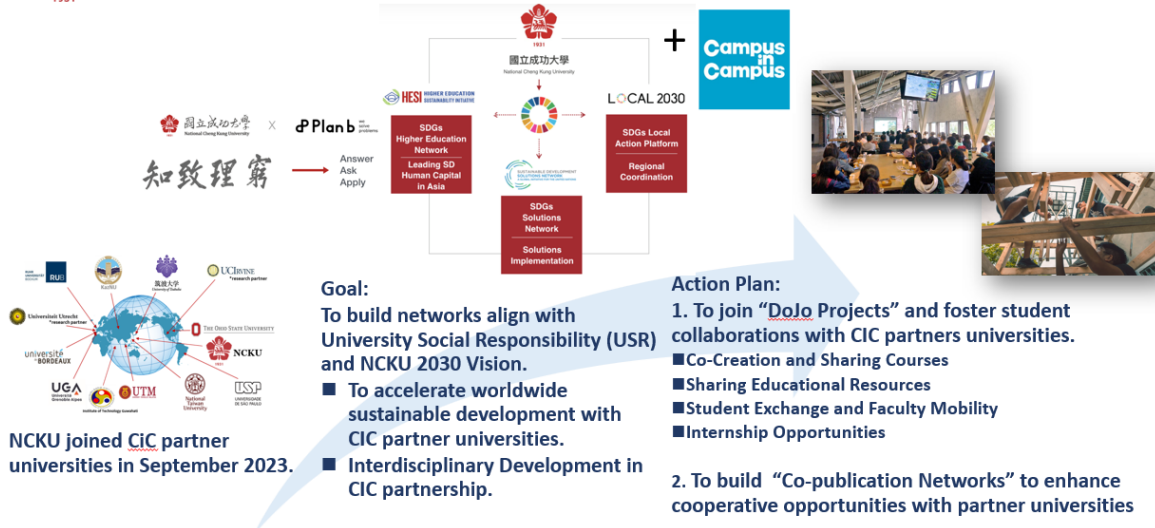
Moreover, we are committed to forging inclusive and sustainable communities through global and local partnerships.

For example:

We developed talent cultivation program (成蝶人才培育計畫)with overseas industrial internship;

Offered support to displaced scholars and graduate students from Ukraine through the collaboration with Polish Academy of Sciences (PAS);

Looked into disaster prevention and management mechanism with governmental leaders such as the Prime Minister of the Kingdom of Eswatini (史瓦帝尼王國); Connected international students with local culture and history via Exploring Tainan program.

Campus in Campus

國立成功大學 × Plan b 知致理窮 → Answer Ask Apply

HESI HIGHER EDUCATION SUSTAINABILITY INITIATIVE

LOCAL 2030

SDGs Higher Education Network — Leading SD Human Capital in Asia

SDGs Local Action Platform — Regional Coordination

SDGs Solutions Network — Solutions Implementation

NCKU joined CiC partner universities in September 2023.

Goal:
To build networks align with University Social Responsibility (USR) and NCKU 2030 Vision.
■ To accelerate worldwide sustainable development with CIC partner universities.
■ Interdisciplinary Development in CIC partnership.

Action Plan:
1. To join "DoJo Projects" and foster student collaborations with CIC partners universities.
■ Co-Creation and Sharing Courses
■ Sharing Educational Resources
■ Student Exchange and Faculty Mobility
■ Internship Opportunities

2. To build "Co-publication Networks" to enhance cooperative opportunities with partner universities

4

(左下) 成大在 **2030** 加入由筑波大學發起的 **Campus-in-Campus**。

In 2030, NCKU joined the Campus-in-Campus initiative launched by Tsukuba University.

(左上) 以校訓 **Answer, Ask, Apply** 為基礎，成大致力推動永續課程和研究，在各學院進行研發創新、鼓勵學生跨域學習，並與在地人文和產業連結。

Based on the motto "Answer, Ask, Apply," NCKU is committed to promoting sustainable education and research. The focus is on innovation and research development across various departments, encouraging students to engage in interdisciplinary learning while connecting with local culture and industries.

(中間) 希望加入 **Campus-in-Campus**，成大能與夥伴學校共同致力於 **USR**，透過跨域合作加快邁向永續發展目標，達到 **NCKU 2030** 教研願景。

By joining Campus-in-Campus, NCKU hopes to collaborate with partner schools to advance USR (University Social Responsibility) and accelerate the achievement of sustainable development goals through interdisciplinary cooperation, fulfilling NCKU's vision for teaching and research in 2030.

(右下) 行動計畫:
(1)加入"道場計畫"，促進與夥伴學校的學生交流
(2)建立"共研網絡"，增進與夥伴學校的共研合作機會　　**(**例如: 每年挑選一個主題，由夥伴學校分享彼此間的共著合作**)**
Action Plan:
To Join "DOJO Projects" and foster student collaborations with CIC partners universities.
To build "Co-publication Networks" to enhance cooperative opportunities with partner universities (for example, selecting a theme each year for partner universities to share their collaborative efforts).

DOJO Projects Tentative Proposal:
- UT students will collaborate with NCKU students at NCKU, serving as a "dojo," where they will identify challenges and propose solutions together.
- With 1-4 weeks short term program in semester breaks.
- 20-30 UT students/round x 2~3 round a year.

Goal:
- From a student-centered project to a gradually increasing collaboration with local businesses.
- From a subject to a DOJO platform.

NCKU Urban Planning + UT Art and Design → DOJO Platform

Example: NCKU's "Exploring Tainan Program"
- A required program for university freshman.
- Elective program for upperclassmen and international students.
- Social practices + Local cultural knowledge + Hands-on activities.
- Enhance sense of local responsibility and global perspective.

International and domestic students practice painting techniques together.

Students learn traditional calligraphy skills from a master.

Students visit local temples to understand regional customs.

Student observe traditional incense drying craft techniques.

(左上) 道場計畫提案:

筑波大學每次派 **20-30** 位學生前來"成大道場" 與成大學生共同研習解決問題方案，

在寒暑假或春假期間，舉辦為 **1~4** 週的短期課程，每年 **2~3** 次。

DOJO Projects Tentative Proposal:

UT students will collaborate with NCKU students at NCKU, serving as a "dojo," where they will identify challenges and   propose solutions together.

20-30 UT students/round x   2~3 round a year. With 1-4 weeks short term program in semester breaks.

(左下) 道場計畫目標:

目標是從學生為主的計畫到，未來漸進式與當地企業合作

從單一領域到建立跨領域「道場平台」**(**例如: 目前成大都市計畫系和筑波大學藝術系，擬以都市計畫這個主題做交流**)**

The goal is to transition from a student-centered project to a gradually increasing collaboration with local businesses.

This will evolve from a single subject to establishing a cross-disciplinary "dojo platform.

(For example, the Urban Planning Department at National Cheng Kung University is currently planning an exchange with the Art Department at Tsukuba University, focusing on the theme of urban planning.)

(右上) 參考 NCKU 踏溯台南計畫

踏溯台南為大一必修課，亦開放給高年級和外國學生選修

透過實作課程，深入連結在地人文與傳統文化

從實際踏溯中，內化學生在地知識與人文社會素養，培養學生在地關懷與世界觀的胸懷

Take NCKU "Exploring Tainan Program"(踏溯台南) as an example, this is a required class for first-year students, also open for elective enrollment to upperclassmen and international students. Through practical coursework, it fosters a deep connection with local culture and traditional heritage.

By engaging in hands-on exploration, students internalize local knowledge and social humanities literacy, enhance their sense of local responsibility and global perspective.