

# International Cooperation for a Technological University in Taiwan: Research and Practice Based Collaboration



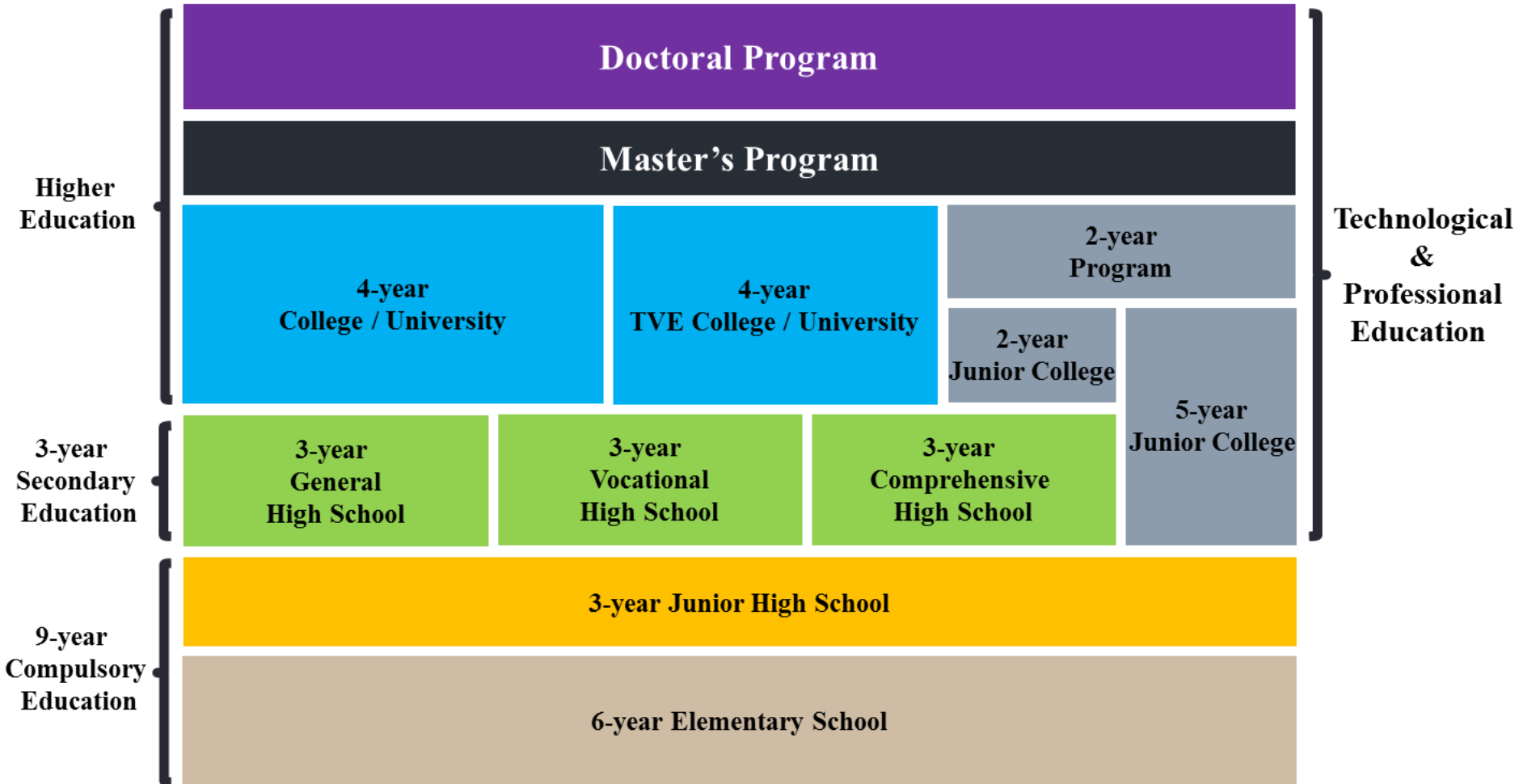
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Dean Office of International Affairs, Taipei Tech

# Outline

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- **Technological and Vocational Higher Education (TVHE) in Taiwan**
- **Practice and Research Based Collaboration in Taipei Tech**

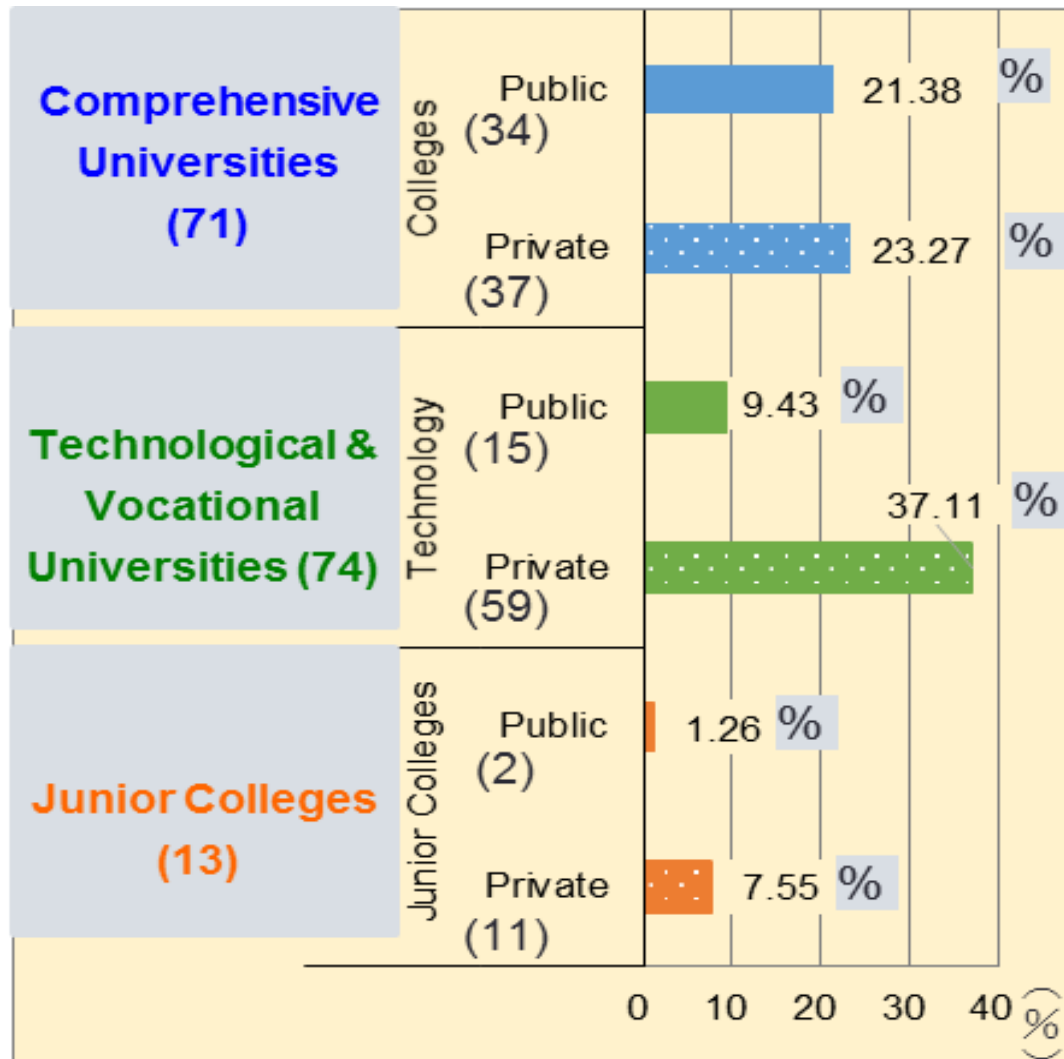
# Current education system in Taiwan



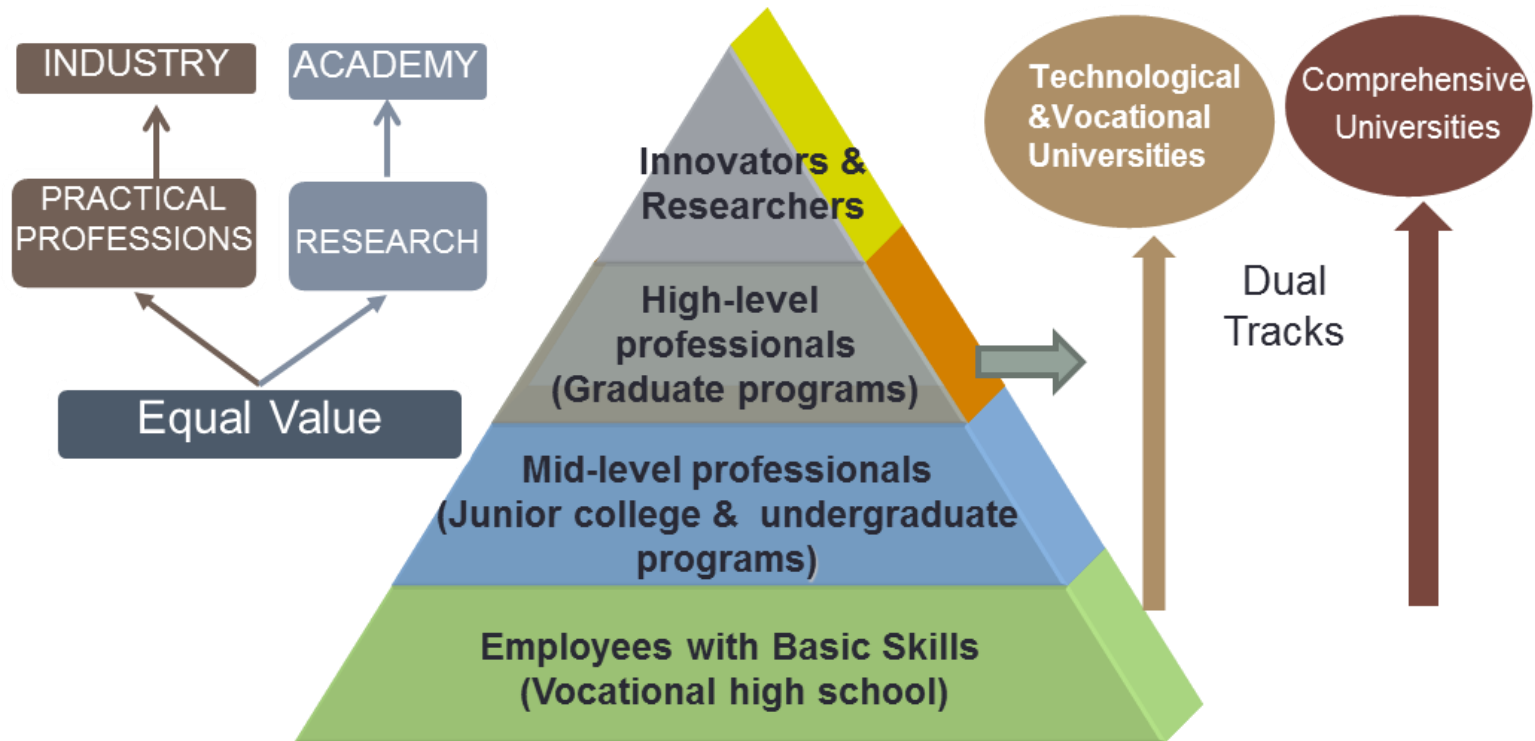
# Current status of education in Taiwan

- Population: **23 million**
- Fertility rate: **1.11‰** (the 3rd lowest in 2013)
- Education, science, and culture budget: **US\$ 16.95 billion**
- No. of students of all levels: **4,546 million** in 4,884 schools
- No. of colleges and universities: **158**
- No. of students in colleges and univ.: **1.254 million**
- Higher education entrance admission rate: **94.39**

# Among these 158 Universities...

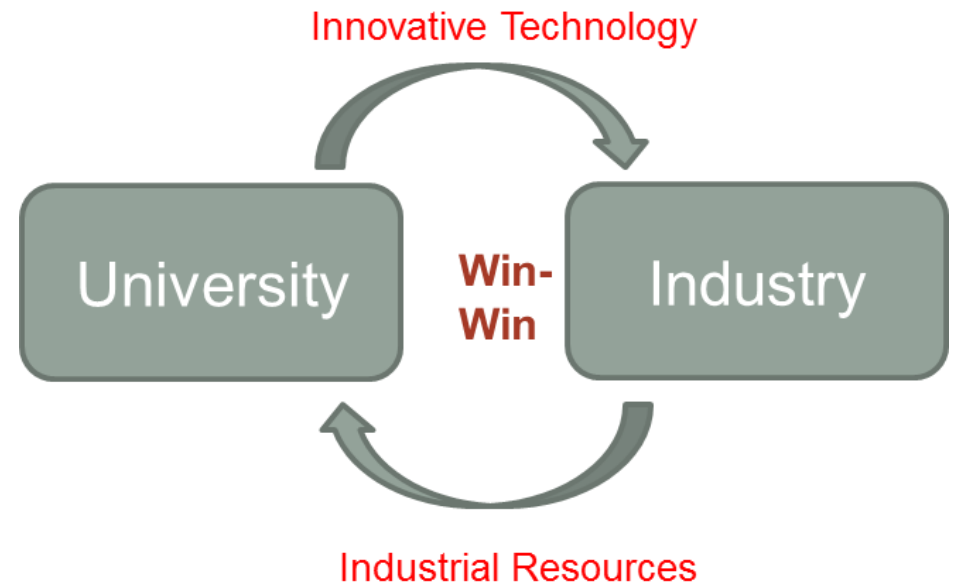
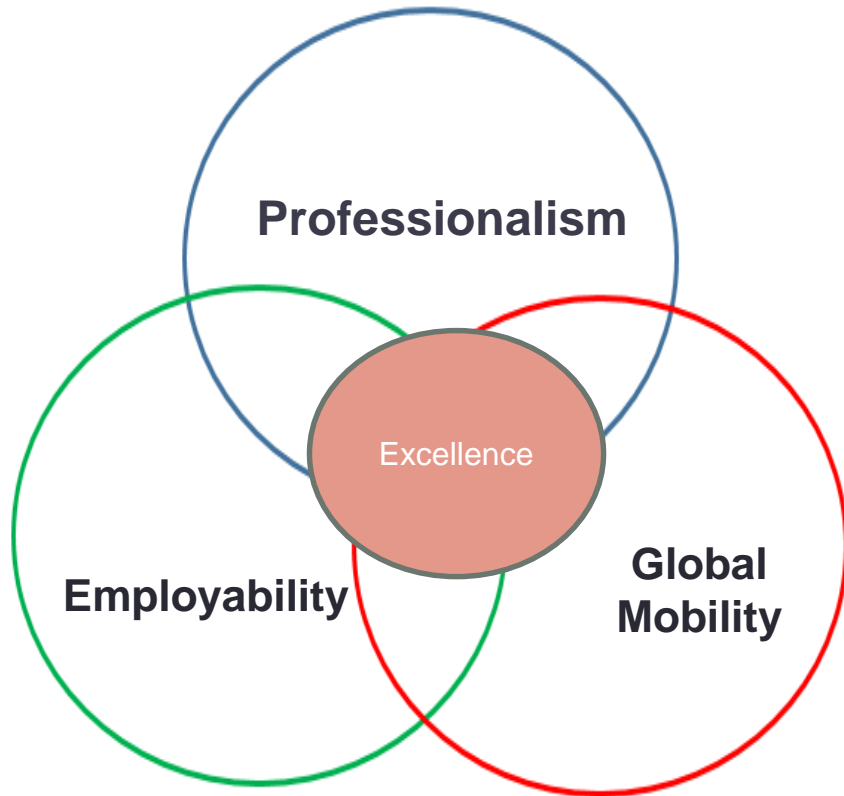


# Overview of Higher Education



- Dual Tracks: Practical Professional programs and Academic Research programs
- Equally Valued: Technological and Vocational Universities/ Comprehensive Universities

# Goals of TVHE



**Close industry-academic collaboration and connection!**

# Outstanding Areas of TVHE in Taiwan

- Electrical & Mechatronics Engineering
- Computer Science & Information Technology
- Industrial Manufacture
- Arts & Design
- Agriculture
- Fishery Production & Management
- Hospitality & Tourism Management





# Research and Practice Based Collaborations in Taipei Tech

# TAIPEI TECH NOW

Approximately **13,000** students

**5%** are international Students



圖例 Legend

- 1 文湖線 Wenhu Line
- 2 淡水信義線 Tamsui-Xinyi Line
- 3 松山新店線 Songshan-Xindian Line
- 4 中和新蘆線 Zhonghe-Xinlu Line
- 5 板南線 Bannan Line



**TAIPEI**  
**TECH**

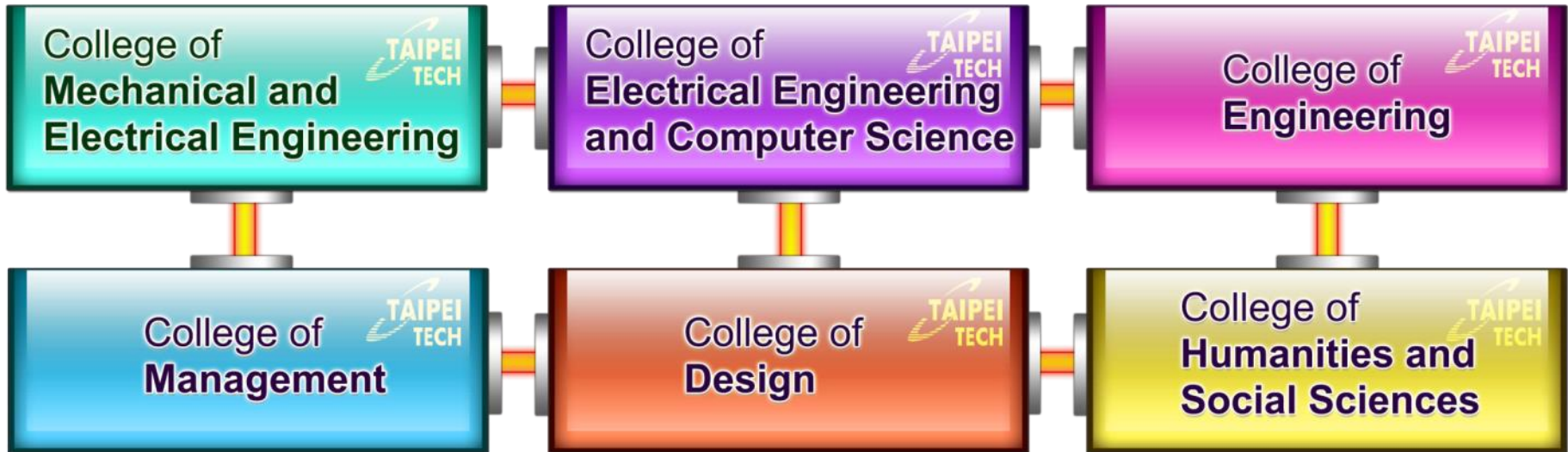
忠孝新生站

ZHONGXIAO XINSHENG

4

Campus located at the center of  
Taipei Metro System

# 6 Colleges



**19** undergraduate programs

**25** Master programs, **17** Ph.D. programs

# Academia-Industrial Collaboration

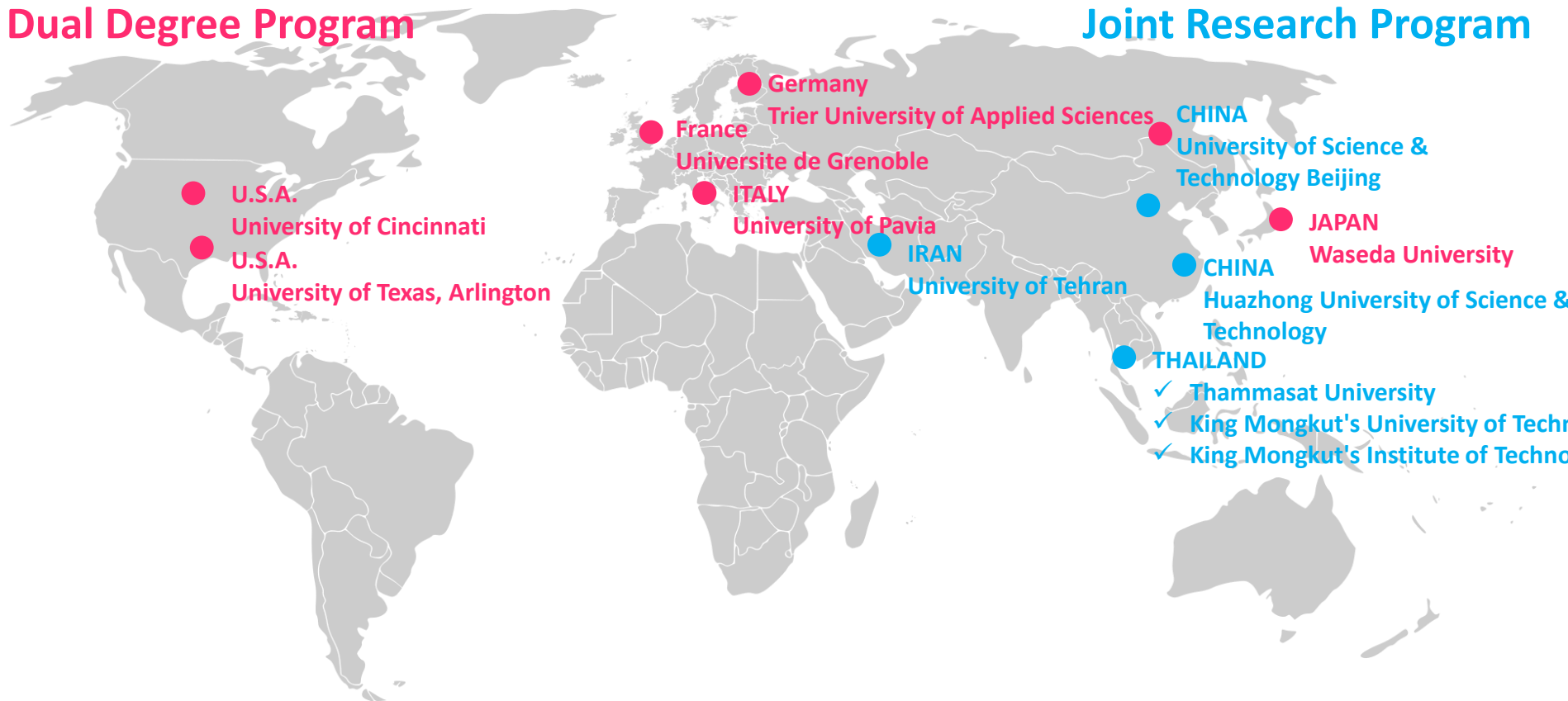


# Joint Research and Dual Degree Programs

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## Dual Degree Program

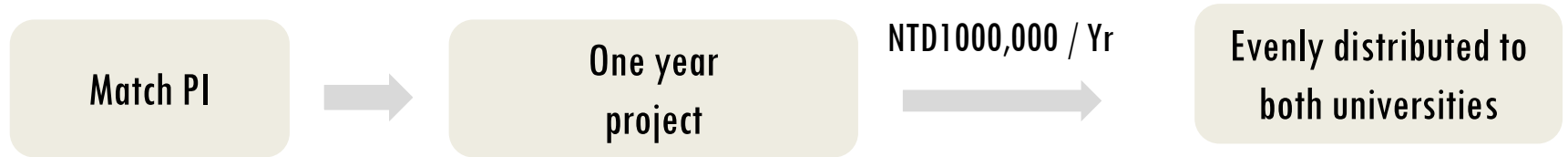
## Joint Research Program



# Joint research model in Taipei Tech

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Before the project



**How to apply**

- Research proposal
- Curriculum Vitae
- A list of publication

**KPI**

- Final report within 2 months after the project ends
- Coauthor SCI papers (top 20 %?) within 24 months after the project ends

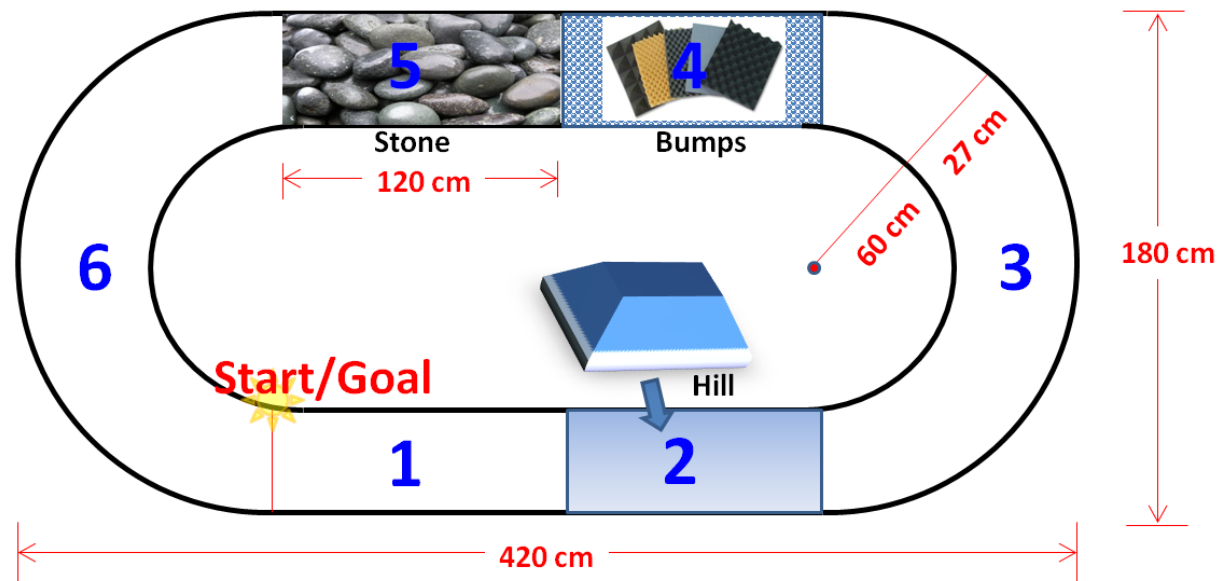
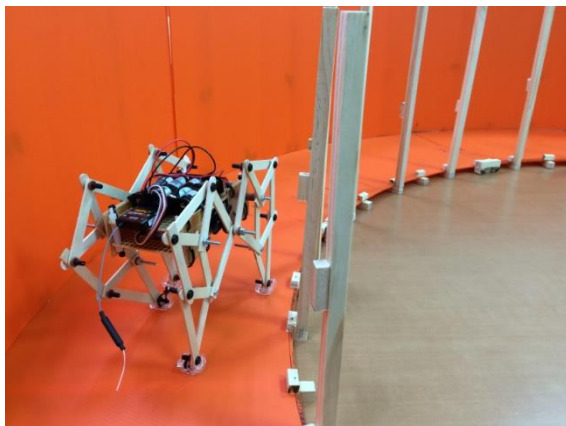


# Practice based Collaboration- Problem Based Learning

- **PBL** is a strategy in which students gain knowledge by problems, critical thinking, collaboration, and self-management.
- **Bio-inspired Robotics Competition:** students team up and are encouraged to learn concepts from nature and applying them to the design of their robots.



Scene Photo



# International PBL Competition

**PBL Workshop Hosted by**



5:43

[PBL Video](#)

# Closing Remarks

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- TVHE shorten knowledge gap between theory and practice.
- Universities of TVHE specialize in the areas of Engineering, Manufacturing, Information Technology and Industrial Arts & Design.
- Universities of TVHE in Taiwan strives to collaborate with partners in Hungary.

# Thank you for your attention

