

# Kyoto University On-site Laboratory at Mahidol University for Educational and Research Collaboration in Environmental Studies



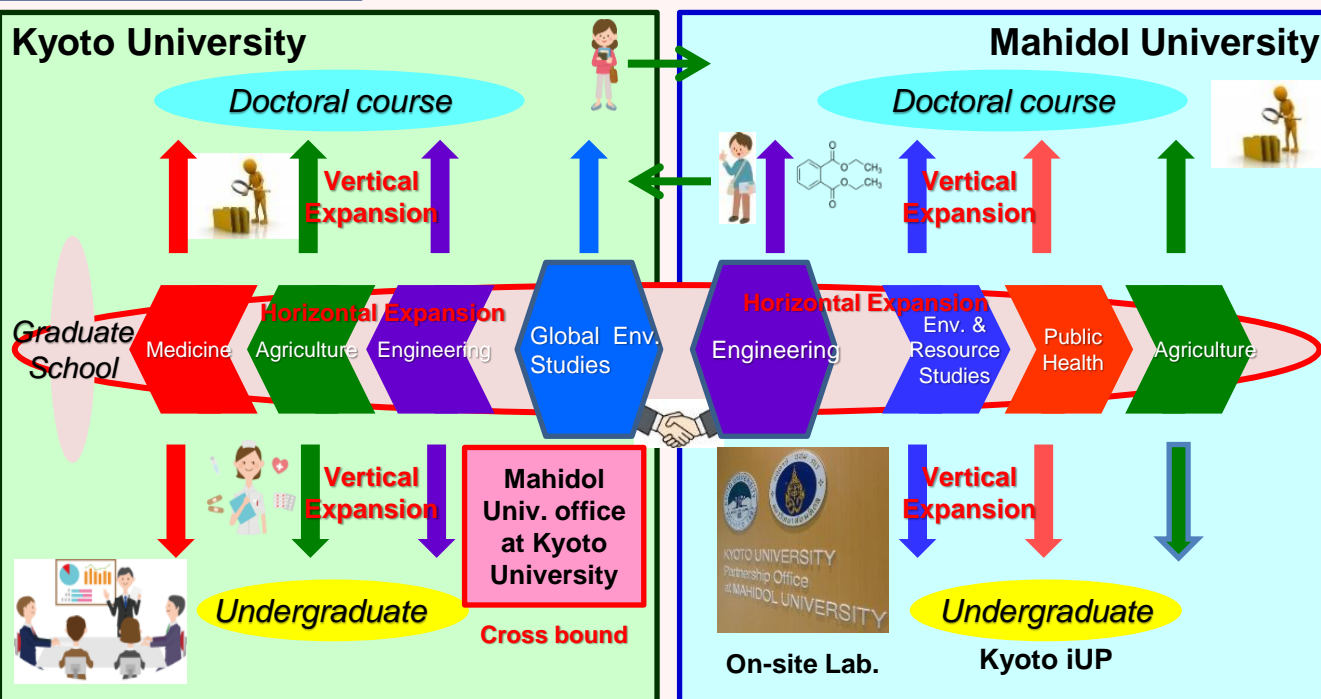
## General Information

- ◆ **Approval Year:** FY 2018
- ◆ **Establishment:** March 2019
- ◆ **Implementing Schools:** Graduate School (GS) of Global Environmental Studies (GSGES); jointly implemented by GS of Engineering, GS of Agriculture, and GS of Medicine after FY 2020.
- ◆ **Partner institution:** Mahidol University, Thailand
- ◆ **Purposes:** To solve environmental problems in Japan and Thailand and to foster the next generation of researchers and high-level practitioners.
- ◆ **Location:** Mahidol University, Bangkok, Thailand (outbound)
- ◆ **Activities:** Joint education and research activities on environmental studies, recruitment of talented international students, and development of international joint programs

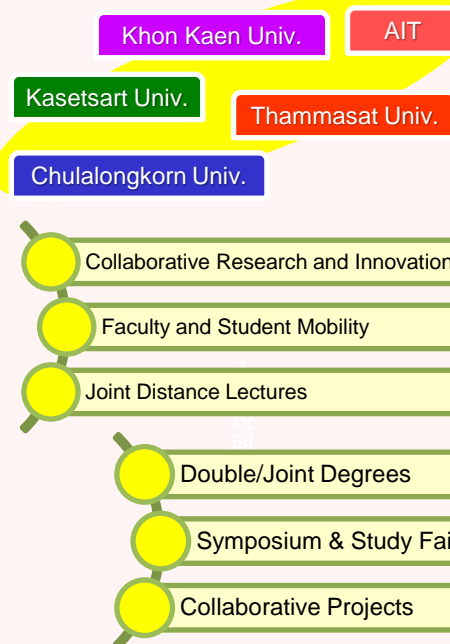
## Positive ripple effects to the university's activities

- Research collaboration with local companies
  - Recruitment of talented international students
  - Education and training for local students
  - Extension of joint/double degree programs
  - Fusion of the humanities and sciences
  - Expansion to cross-bound type
- [FY 2018–2024]
- **On-site Laboratory Workshops:** 1<sup>st</sup> Workshop (MU, Mar 8, 2019), 2<sup>nd</sup> Workshop (KU, Nov 25, 2019), 3<sup>rd</sup> Workshop (On-line, Mar 11, 2020), 4<sup>th</sup> Workshop (On-line, Nov 27, 2020), 5<sup>th</sup> Workshop (On-line, Mar 11, 2022), 6<sup>th</sup> Workshop (On-line, Mar 29, 2023), 7<sup>th</sup> Workshop (Feb 23, 2024), 8<sup>th</sup> Workshop (Feb 21, 2025, 159 participants). In addition, the International Symposium was co-hosted (on-line, November 30–Dec 1, 2020).
  - **Double master's degree programs:** the Graduate School (GS) of Global Environmental Studies (GSGES), the School of Public Health, GS of Medicine, and GS of Agriculture were concluded in 2016, 2019, and 2022, respectively. As of the end of March 2025, 1 KU students and 13 Mahidol students have enrolled/will enroll in the GSGES program, one KU student has enrolled in the Agriculture program, and 2 Mahidol students in the Public Health program.
  - **Exchange of students & faculty members:** In 2018–2019, 52 of 17 groups from Mahidol and 57 of 15 groups from KU visited each. In 2020–2022, only 9 of 7 groups from Mahidol and 1 from KU visited each due to COVID-19. In 2023–2024, 46 researchers/students of 13 groups from KU and 36 of 8 groups visited each.
  - **Others:** Joint lectures, joint research, co-authored research presentations, internships, etc., were conducted.

## Activity Overview



## Expansion in Thailand



## Main Activities in FY 2024

### ① Symposium/workshops

- 8th Kyoto University-Mahidol University On-Site Laboratory Workshop, Feb 21, 2025: 159 participants (62 onsite (at MU Salaya Campus) and 97 online participants). First, Prof. Yasuyuki Kono, Vice President of KU, Prof. Chihiro Tanaka, Dean of GSGES, and Prof. Thanapat, Dean of the Faculty of Engineering of MU, gave opening remarks. After that, the participants were divided into four sessions of "Environmental Engineering," "Chemical Engineering," "Agriculture and Ecosystems," and "Public Health," where they introduced their research and held discussions for joint research and education. This was followed by a summary session of reports from each session and general discussions and ended with closing remarks by Prof. Korporn Panyim, Vice Dean of the Faculty of Engineering, and Prof. Izuru Saizen, Vice Dean of GSGES.
- Kyoto University International Symposium, Dec 3, 2024: Held by the Graduate School of Global Environmental Studies at Royal University of Agriculture, Cambodia with Zoom broadcast. One presentation from MU (a joint research project by a student in the double degree program with GSGS) won a presentation award.
- Three KU master students were sent to KU-MU-CU Research Progress Seminar (2024/9/24). This workshop on chemical engineering was held at Chulalongkorn University (Bangkok), and the participants KU, MU, and Chulalongkorn University, made presentations and joined active discussions.

### ② Student exchange/degree programs

- In addition to the Graduate School of Global Environmental Studies (2016) and the School of Public Health (2019), the Graduate School of Agriculture signed an agreement for the establishment of a master's double degree program with Mahidol University Kanchanaburi Campus in July 2022. Preparations for the new double degree programs are also underway at the Graduate School of Engineering (with MU Graduate School of Engineering) and the Graduate School of Agricultural Science (with MU Faculty of Science). Furthermore, an interdepartmental student exchange agreement was concluded between GSGES and the MU School of Public Health in March 2024.
- Two students on the double degree program (who entered Engineering, MU in August 2021, and GSGES in April 2022) received a master's degree from MU in 2024 after receiving a master's degree from KU in March 2024.
- Two students on the double degree program (who entered Engineering, MU in August 2022, and GSGES, Kyoto University in April 2023) came to Kyoto University in April 2023, and left in March 2024. They received a master's degree from KU in March 2025.
- Two students on the double degree program (who entered Engineering, MU in August 2023, and GSGES, Kyoto University in April 2024) came to Kyoto University in April 2024, and left in March 2025.
- Two students who entered MU Engineering in January 2024 were selected for the double degree program. They plan to stay at GSGES for one year from April 2025.
- Dispatched one master's student from the Graduate School of Agriculture to the MU Faculty of Agriculture (from January 13, 2025).
- Joint research with Mahidol University, Chulalongkorn University, and the Royal Nanotechnology Research Center of Thailand, led by the Department of Chemical Engineering, has been selected for JST's NEXUS (Young Scientist Exchange Program) in FY2024 (exchange support period is one year).

### ③ Publication of collaborative research results in internationally co-authored academic papers

- Research results produced through collaboration between the two universities have been published in 3 peer-reviewed co-authored papers.