

3<sup>rd</sup> Feb 2023



2<sup>nd</sup> Aug ~ 14<sup>th</sup> Dec 2022

# Study report in Thailand

**Shummei Ekawa**

Hanaoka laboratory

Civil and Environmental Engineering

Tokyo Institute of Technology





# Agenda

1. Outline
2. University
3. Program
4. Study tour
5. Activity
6. Daily life
7. What I got in Thailand

# 1. Outline

- Program: **Exchange program**
- Country/City: **Thailand/Bangkok**
- University: **Kasetsart University**
- Faculty: **Engineering**
- Period: **2nd Aug ~ 14th Dec 2022** (1 semester)
- Class: **5 classes** (12 credits)
- Objective:
  - To learn about environmental issues with international students
  - To recognize the traffic situation in Thailand
  - To experience living abroad for a long term





## 2. Kasetsart University (KU)

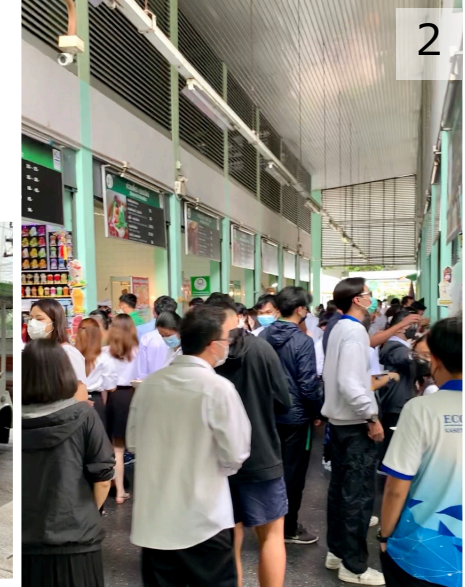
- National university
- Founded in **1943**
- **70,056** students (2021)
- **5** campuses throughout Thailand
- “Kasetsart” = **Agricultural science**
- Faculty: Agriculture, Business, Fisheries, Humanities, Forestry, Engineering, Veterinary Medicine, Agro-Industry, etc.
- Bangkhen Campus: 136ha (**5.6** times of Ookayama campus)



## 2. Kasetsart University

~KU campus~

- Free shuttle bus
- Huge canteens
- Starbucks
- Mini theater
- Night market
- Lizard
- Uniform



# 3. Program

## Sustainable Energy and Resources Engineering (SERE)

- 2 years master program
- Arranged by Kasetsart, Thammasat (TU), and Tokyo Tech
- Members: **23** full-time students + **2** exchange students
- Nationality: Myanmar 11, Thai 6, Indonesia 4, Cambodia 2, France 1, Japan 1(Me)

### ~Course~

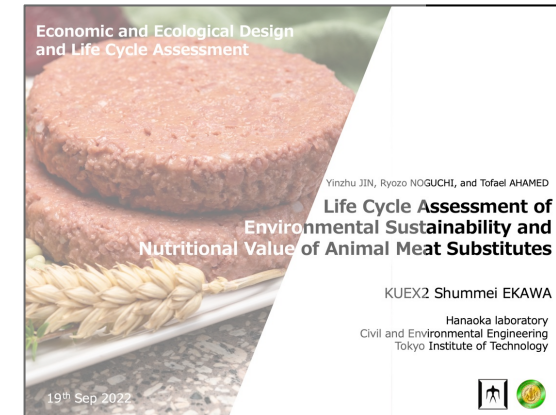
- Sustainable Process Engineering (3) ... Tokyo Tech
- Sustainable Engineering Research Methodology (1) ... Tokyo Tech
- Economic and Ecological Design and Life Cycle Assessment (3) ... KU
- Biofuels and Biorefinery (3) ... KU
- Principle of Sustainable Environmental Engineering (2) ... TU

# 3. Program

## Sustainable Energy and Resources Engineering (SERE)

### 1. Economic and Ecological Design and Life Cycle Assessment

- Principles of LCA, one methodology for assessing environmental impacts at all the stages
- LCA research methodology, goal, and scope definition...
- Reading papers, LCA software, individual presentation, etc.



### 2. Principle of Sustainable Environmental Engineering

- Environmental and economic issues, sustainable development, environmental management systems, waste management...
- Group work, group presentation, etc.

### 3. Biofuels and Biorefinery

- Discussion about renewable energy, presentation, etc.



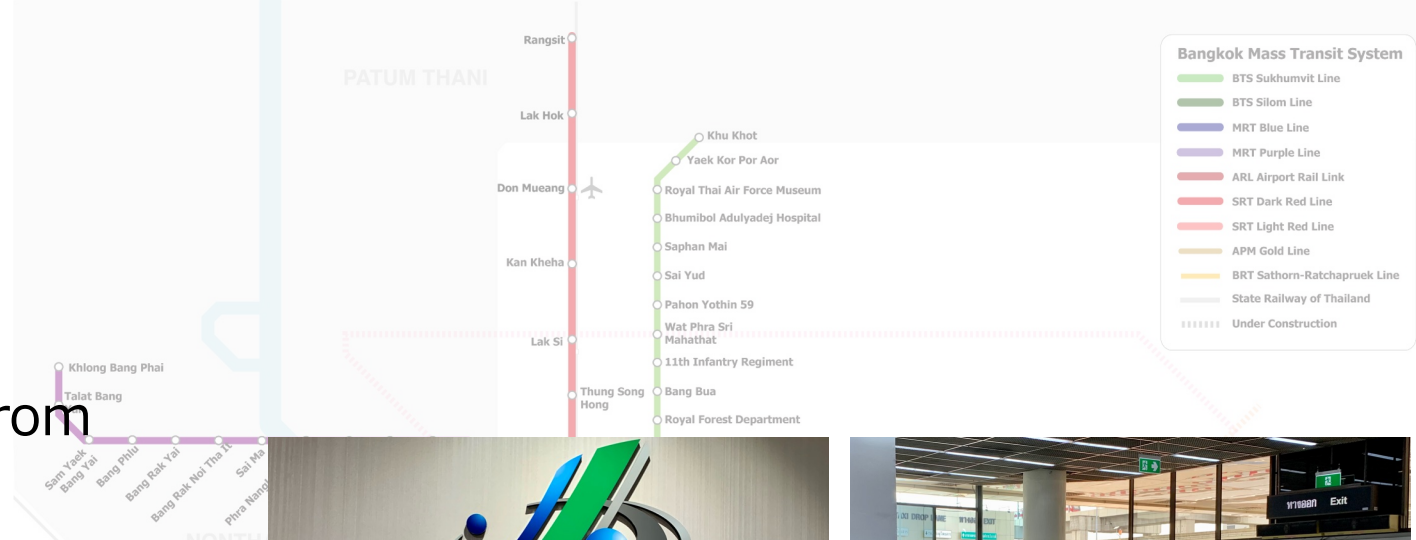
# 4. Study tour

Date: 11<sup>th</sup> Sep 2022

Member: Prof. Hanaoka, 2 staff from JTTRI-AIRO, and me

## [Don Mueang Airport]

- The secondary airport in Bangkok
- **20 km** north of central Bangkok
- The new direct line to the airport “**SRT Red line**” opened in 2021



1. JTTRI - AIRO

2. Movable cleaning robot



3. Don Mueang Airport



4. MRT Red line



5. Panel about ODA



6. Stairs in the station

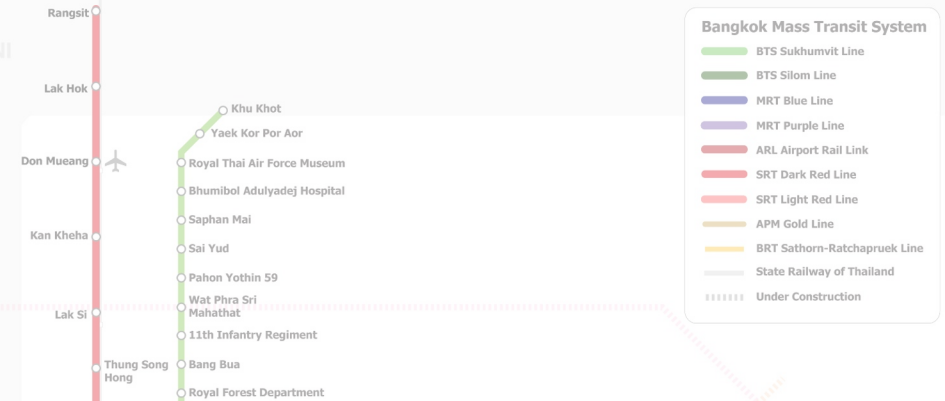


# 4. Study tour

## [Bang Sue Station]

PATUM THANI

Khlong Bang Phai  
Talat Bang  
Yai



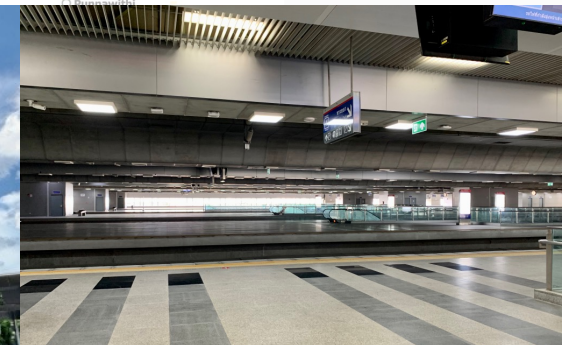
- New terminal station to replace the previously used “Hua Lamphong Station”
- Officially named “**Krung Thep Aphiwat Central Terminal**”
- **600** meters long and **12** platforms
- Planned high-speed rail and airport line



1



2



3

# 5. Activity - Trip

**Bangkok**

**Chiang Khan**

**Tao island**

1

2

3

4

5

6

7

8

9

10

11

12

# 5. Activity - Trip

**Kanchanaburi**

**Chiang Mai**

1

2

3

4

5

6

7

8

9

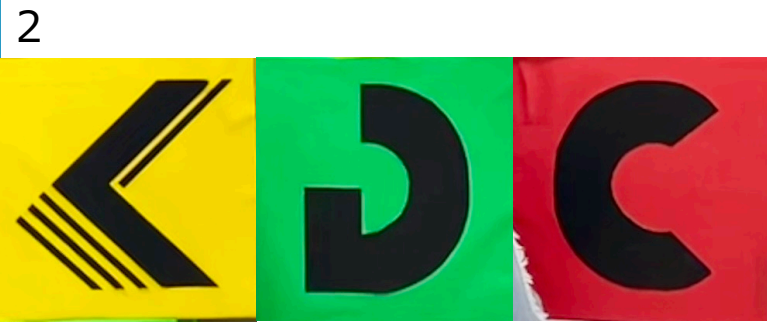
10

11

# 5. Activity - Club

## KU Dance Club (KDC)

Sept. - Join



Oct. - Practice



Nov. - Performance



Dec. - Departure



6

8

12

# 5. Activity - Others

## Thai culture lesson



1



2

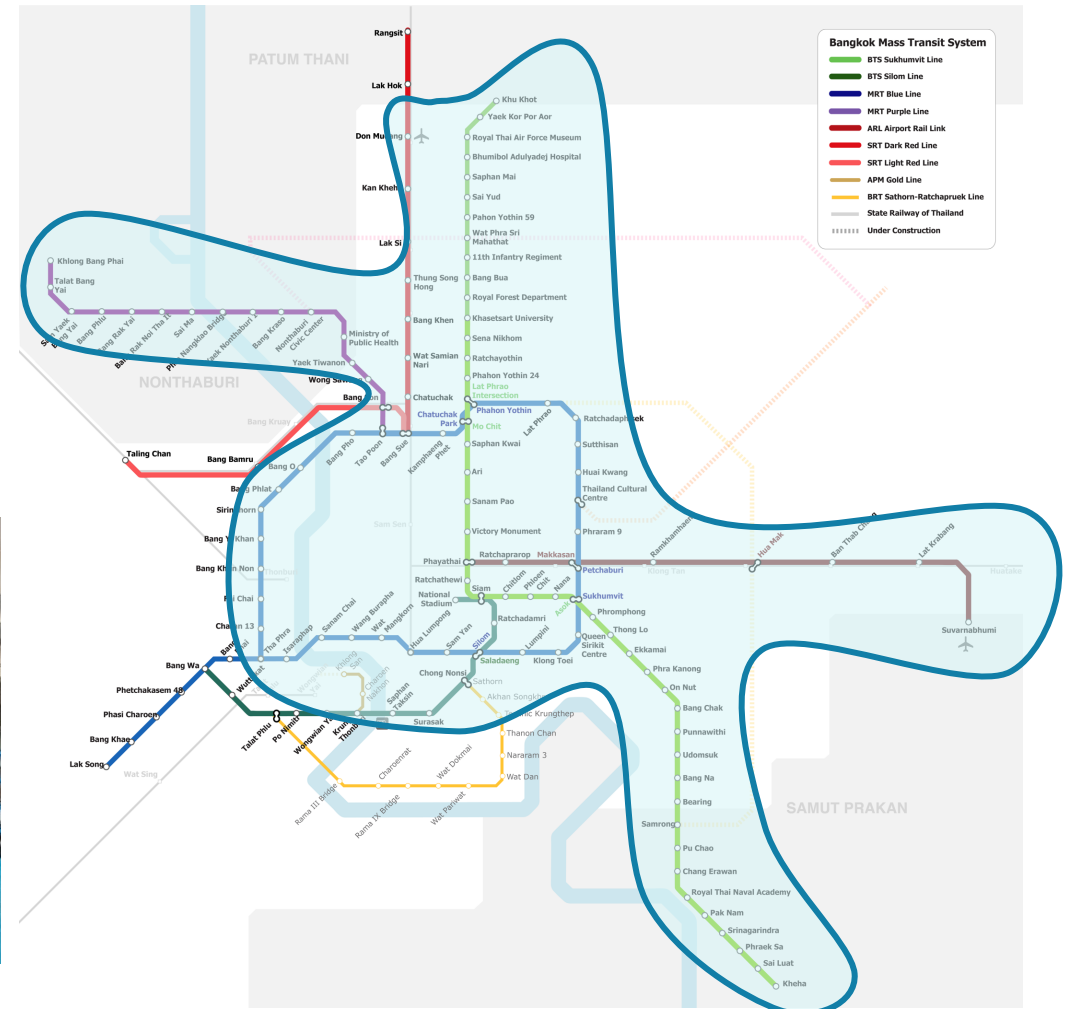


3



4

## Train network in Bangkok

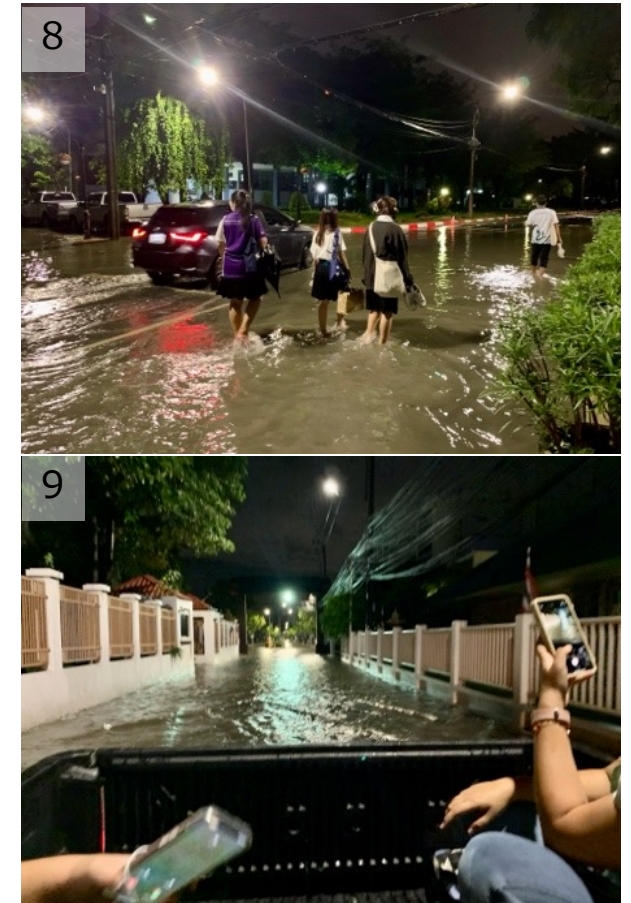


# 6. Daily life

## Thai foods



## Flooding



# **7. What I got in Thailand**

- 1. Knowledge of sustainable engineering**
- 2. Communication skills in second languages**
- 3. Experience and ability to live abroad**
- 4. Wonderful friends from all over the world**
- 5. Encounter new cultures and values**
- 6. Amazing Thai foods**



Thank you  
for your  
attention.

