

# AUTOMATED SOFTWARE ENGINEERING FOR THAILAND SOFTWARE INDUSTRY

INDUSTRY ACADEMIA PARTNERSHIP  
PROGRAMME (IAPP) 18/19 NO. 74

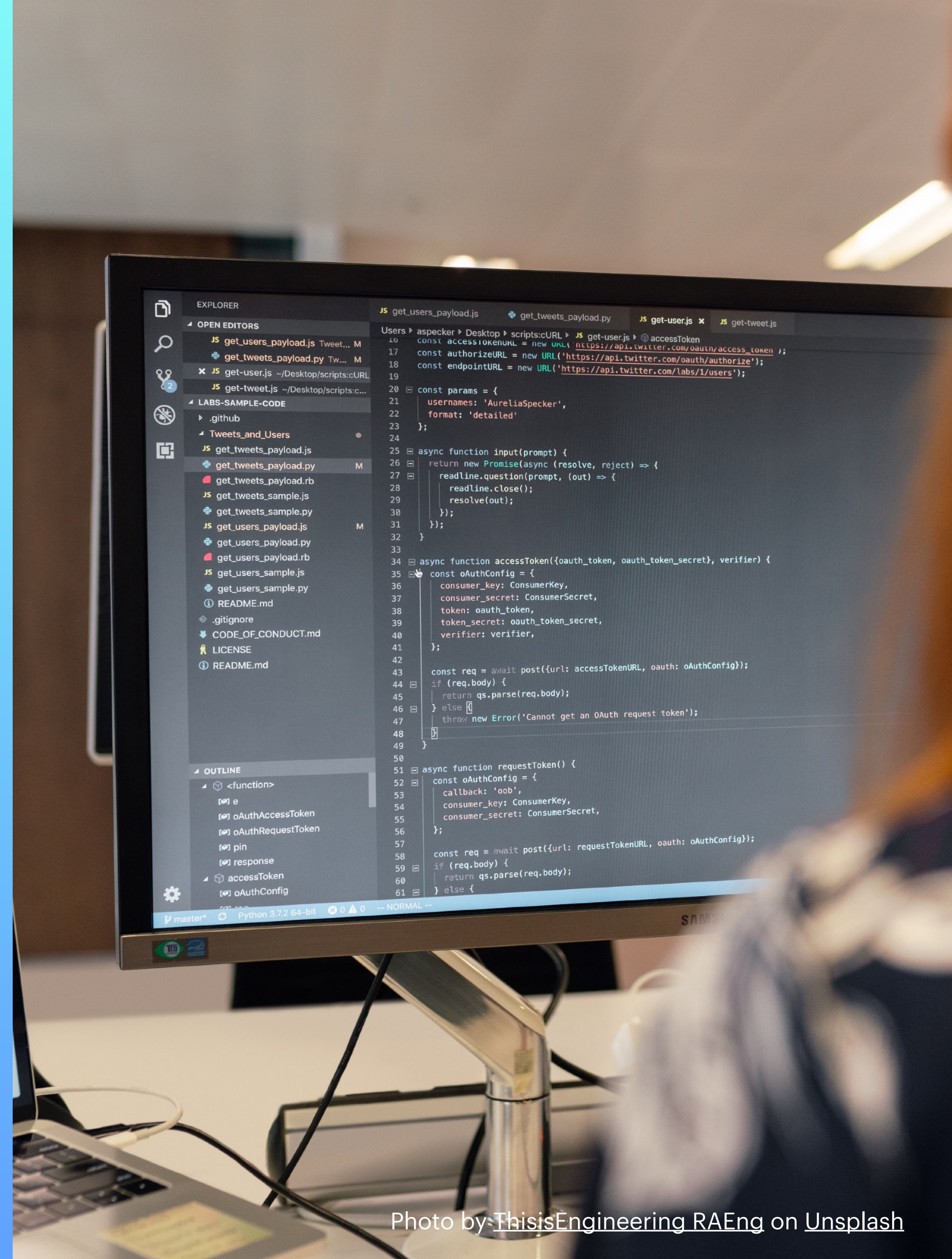


Photo by [ThisisEngineering RAEng](#) on [Unsplash](#)

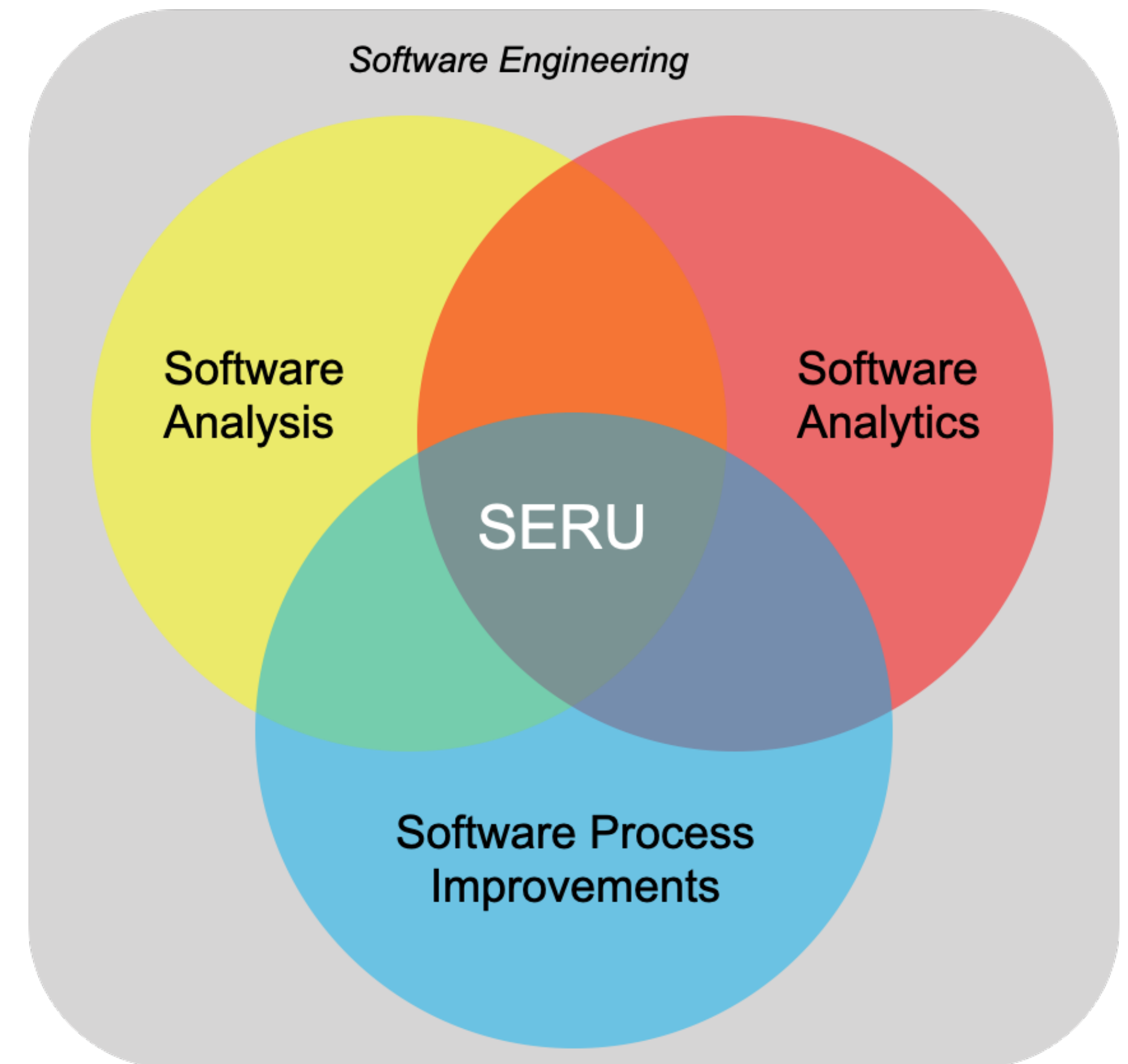
# SOFTWARE ENGINEERING RESEARCH UNIT MAHIDOL UNIVERSITY



<https://muict-seru.github.io>



**Improving Thailand's software companies**  
ISO/IEC 29110 implementation and consultation  
**Automated Software Engineering for Thailand  
Software Industry**  
**Data analytics for software development**  
**Code quality improvements**



# SERU MEMBERS



**Dr. Thanwadee Sunetnanta**  
**Assistant Professor**

**Research interests:**

Requirements Engineering – model consistency checking, traceability  
Software Process Improvement – automation, knowledge engineering, quantitative approach



**Dr. Apirak Hoonlor**  
**Assistant Professor**

**Research interests:**

SE practice for Data Science project, Data-Driven Solution for SW Development Process. SE Mining (mining SE related repository for insight in software development)



**Dr. Morakot Choetkiertikul**

**Research interests:**

AI-driven software engineering  
Empirical software engineering  
Mining software repositories



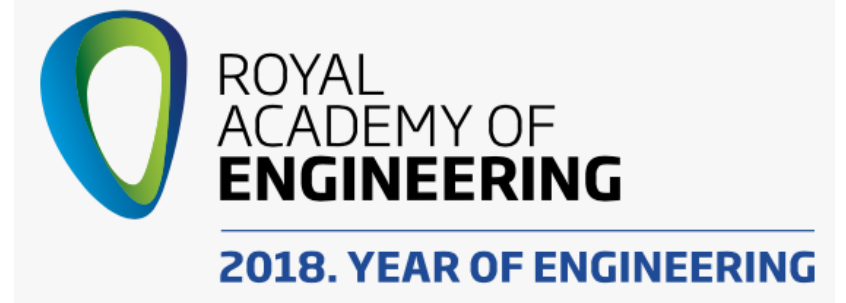
**Dr. Chaiyong Ragkhitwetsagul**

**Research interests:**

Software analysis, code duplication, code similarity and its applications  
Automated software engineering and mining software repositories

# AUTOMATED SOFTWARE ENGINEERING FOR THAILAND SOFTWARE INDUSTRY

Duration: 1 April 19 — 30 November 22 (2 years + extension)

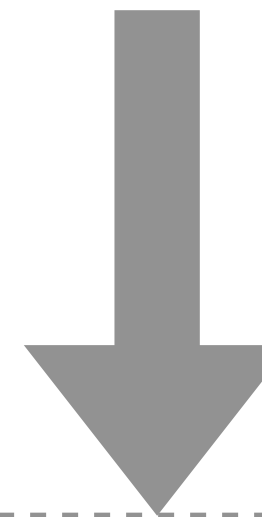
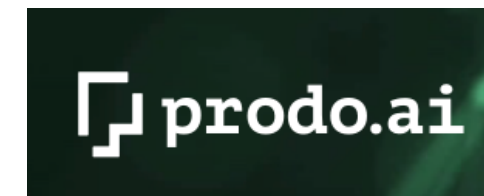


## IAPP18-19\74

### ACADEMIC



### INDUSTRY



1



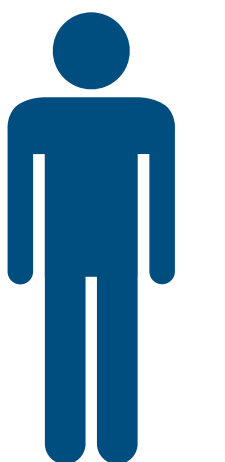
2



3



4



# GOALS AND OBJECTIVES

# 1

The project aims to investigate the challenges in software engineering that specifically occur in Asian culture, especially in Thailand, and how effective automated software engineering (ASE) tackles such challenges.





# IDENTIFIED CHALLENGES

**1**

**Software measurements**

**2**

**Static code analysis**

**3**

**Software testing**

**+ CI/CD**

# GOALS AND OBJECTIVES

## 2

The project aims to **transfer the advanced ASE knowledge in software engineering from the UK experts to practitioners in Thailand software industry** to tackle such challenges and to improve the quality of software development in Thailand.





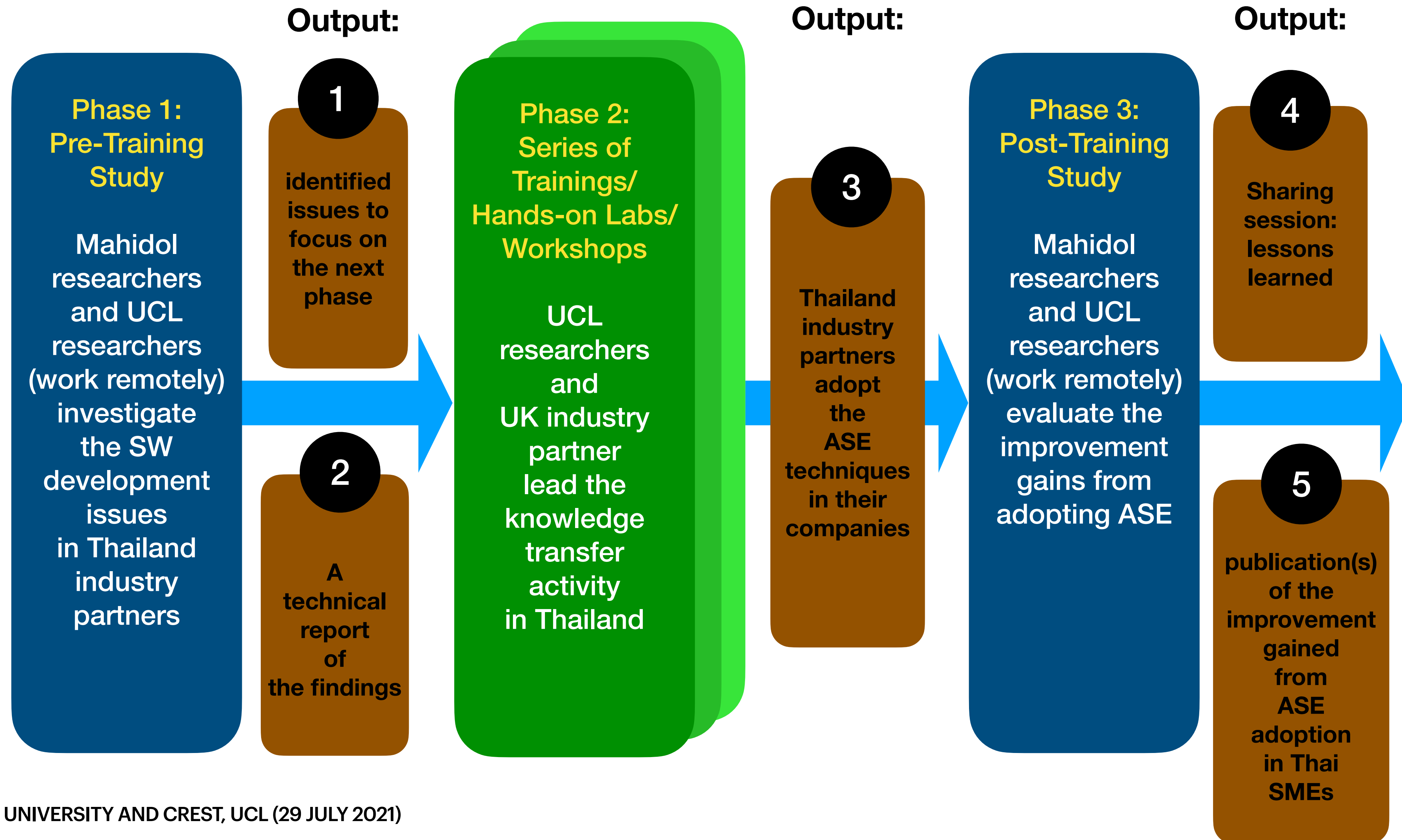
# GOALS AND OBJECTIVES

3

The project aims to establish a long-term collaboration between the UK university (UCL) and Thai University (Mahidol).



# PROJECT PHASES AND OUTPUT



# INVITATION TO PARTICIPATE IN THE SURVEY

ขอเชิญชวนตอบแบบสอบถามเรื่อง

“วิศวกรรมซอฟต์แวร์อัตโนมัติในประเทศไทย (A Survey  
of Automated Software Engineering in  
Thailand)”

เพื่อศึกษาความรู้ความเข้าใจของนักพัฒนาซอฟต์แวร์ใน  
ประเทศไทยเกี่ยวกับเครื่องมือและเทคนิคที่เกี่ยวข้องกับ  
Automated Software Engineering และเพื่อนำมา  
พัฒนางานวิจัยและบริการวิชาการด้านวิศวกรรมซอฟต์แวร์  
ของไทยต่อไป

<https://b.link/ase-survey>

