



Invitation and Announcements of the Self-fund project by Thailand and Japan on HRDWG 01 2024s

Online Workshops for Lesson Study 2.0:

Unplugged Computational Thinking in APEC Economies

First Online Workshop:

Unplugged Computational Thinking at Primary Education

18 April 2024

Hosted by the University of Tsukuba, Tokyo, Japan

On the Era of Generative AI, the project proposed by Thailand and Japan promotes the Education to develop computational thinking (CT). Here, CT is the ways of thinking for problem solving with using Generative AI which works on Natural language. Since 2006, Japan and Thailand have been engaged in APEC Lesson Study project under APEC HRDWG Education network issues and established APEC Lesson Study Network. It also co-proposed with Chile (2019) and Malaysia (2020). It produced the Curriculum Reform Recommendations for CT in APEC (2021) through overcoming COVID-19. This workshop planned on these bases.

First Online Workshop is hosted by University of Tsukuba, Japan. Objective is to promote the educational actions in APEC region to unplug CT at Primary School Level. It will answer the following questions for teaching practice at Primary Level:

“How can we develop computational thinking without using computers?”

“What basic informatics content is suitable for primary school level?”

“How can we fit these lessons into our curriculum schedules?”

In relation to this project with collaboration of Lesson Study Network members, Japan, Chile and Thailand members prepared the booklet ‘Unplugged Computational Thinking’ with collaboration of Indonesia and Malaysia members. This first workshop uses it to demonstrate the way to develop computational thinking without computer and with computer at Primary School Level and promotes Lesson Study on the issues in APEC: It provides a strategy to overcoming Digital Divide.

It is preparation of **Second Online Workshop** which will be hosted by Khon Kaen University, Thailand, as for the promotion and implementation of Lesson Study for CT.

Tentative Schedule on April 18th, Tokyo Time (GMT+9)

11:00-11:20	Opening: University of Tsukuba/ MEXT, Japan/ Education Network Leader/Other Fora
11:20-12:50	Keynote session for Unplugged Computational Thinking: On Computational Thinking by Roberto Araya, Chile On Mathematical Thinking by Masami Isoda, Japan On STEM Thinking by Kritsachai Somsaman, Thailand Moderator: Narumon Changsri, Thailand
13:00-14:00	Lesson Study Preparation Session: Presentations from Indonesia, Malaysia, Thailand, Chile, and Japan
14:00-14:30	Commentaries based on the review of the booklet: Russia, Vietnam, Korea, Mexico, and Peru
14:30-15:00	Q&A, Discussion, and Wrap-up for Second Workshop at Thailand.

- The presenters which noted by the names of economies are in communication within the APEC Lesson Study Network members.
- Q&A, Discussion, and Wrap-up session is opened for all participants from APEC member economies who are recommended by the focal point members in each economy.
- The workshop is recorded. After the workshop, it is re-edited and re-produced as a part of lesson study online course by the University of Tsukuba through YouTube which is distributed by free.
- Further information will be provided from: <https://www.criced.tsukuba.ac.jp/en/>

The way of Participation

Participants participate in online through the recommendations of each economy. This announcement will be announced through Focal points-members on HRDWG, Education Network in each economy from APEC Secretariat. Members in each economy recommend the participants to the host of workshop:

Host: CRICED, University of Tsukuba, Japan

Project Overseer for the first online workshop: Masami Isoda, Prof/PhD/Director

Contact person: Ms. Nao Ishihara; criced@un.tsukuba.ac.jp

Deadline:

If we received the recommendation until 16 April 2024 on the timeline of every economy, the host will send the meeting URL.

Condition:

Participants recommended by economies need to accept the recording of the workshop and re-use of recorded video through YouTube by free.

Major Reference:

Developing Computational Thinking on AI and Big Data Era for Digital Society - Recommendations from APEC InMside I Project

<https://www.apec.org/publications/2021/03/developing-computational-thinking-on-ai-and-big-data-era>

APEC Lesson Study Project Site by CRICED, University of Tsukuba, Japan

<https://www.criced.tsukuba.ac.jp/math/apec/>

APEC Lesson Study Project Site: IRDTP for ASEAN, Khon Kaen University, Thailand

<https://irdtpforasean.kku.ac.th/apec2022/>