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Initiative Teacher Education Program in *Thailand*

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Teacher Education

**Focus
on**

preservice

(4-6 years)



**beginner
teacher**

(1-3 years)



in-service teacher

(~30 years)



**Connection
needed**



Innovations through career path

After 10 years of experiences in Japan



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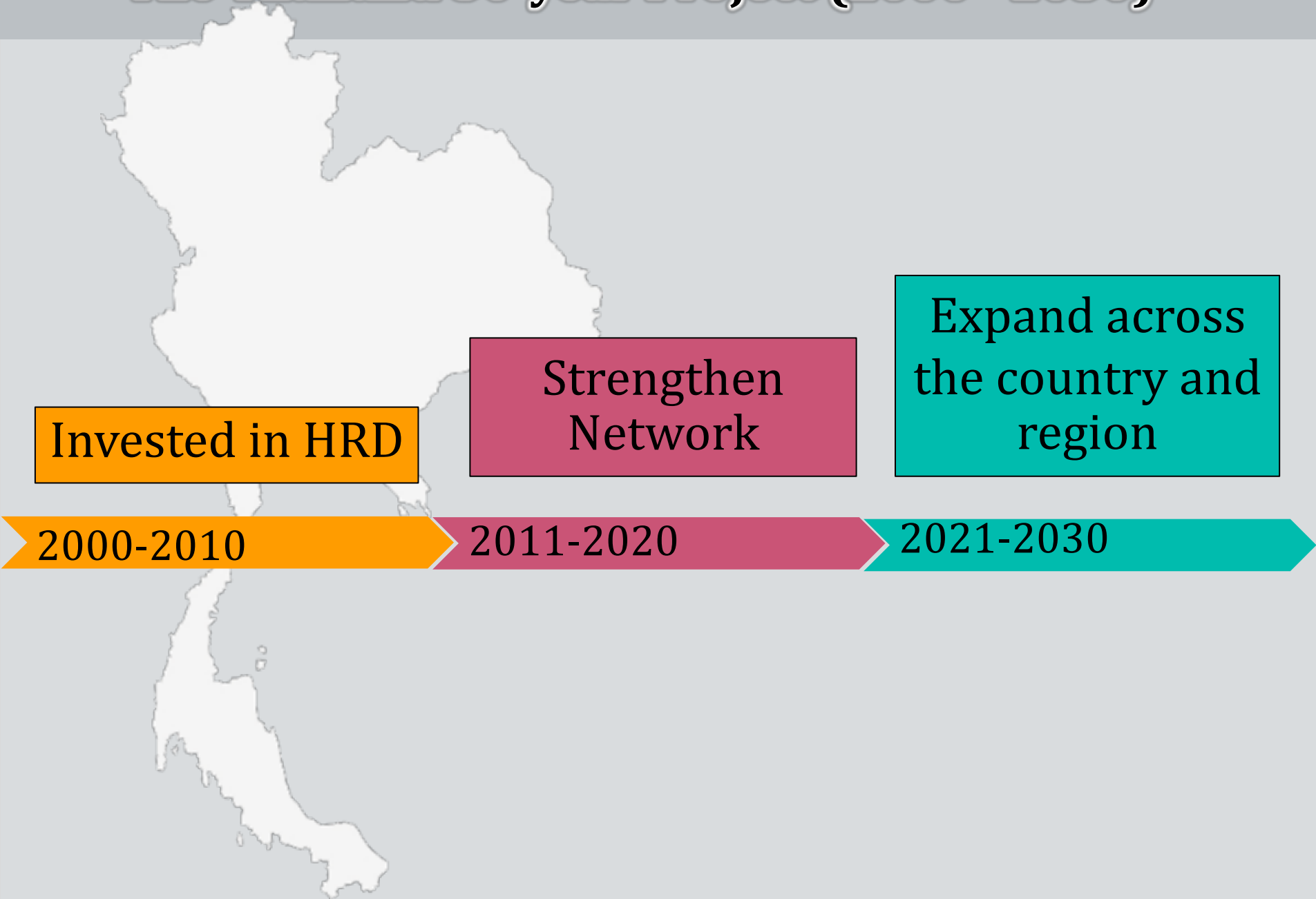
- Teacher Training Program (1 ½ year in Nagoya University and Aichi University of Education) (October 1988-March 1990)
- Master and Ph.D. in School Education (Mathematics Education) 8 years (April 1994-March 2001)

Then, I planned

the 30-year Thailand Project to introduce

‘**Innovations**’ into ‘**Teacher Education**’ in Thailand

The Thailand 30-year Project (2000 - 2030)



Thailand 30-year Project (2000 - 2030)

started on how to change the way of teaching focusing on changing the problem we use in mathematical activity

Plan 30 years project (2000 - 2030)

2001

2006 2008

started 4 project schools using "whole school approach" to implement "lesson study" and "Open Approach"

2013

2013 - present expanded to 120 schools across the countries.

2017

2018

2019

2030

2002

first group of student teachers started implementing "open-ended problems" in 7 schools nearby Khon Kaen City

2006 - present started APEC Lesson Study Community in APEC and Non-APEC members economies

Expanding across the country and region

Invested in HRD

Strengthen Network

1999

2000-2010

started small community of Lesson Study with a group of student teachers (15 students)

tried the idea of using "open-ended problems" to create mathematical activities with 800 teachers in Khon Kaen Province

expanded to 22 schools in the northeast and northern parts of Thailand

2000

2003

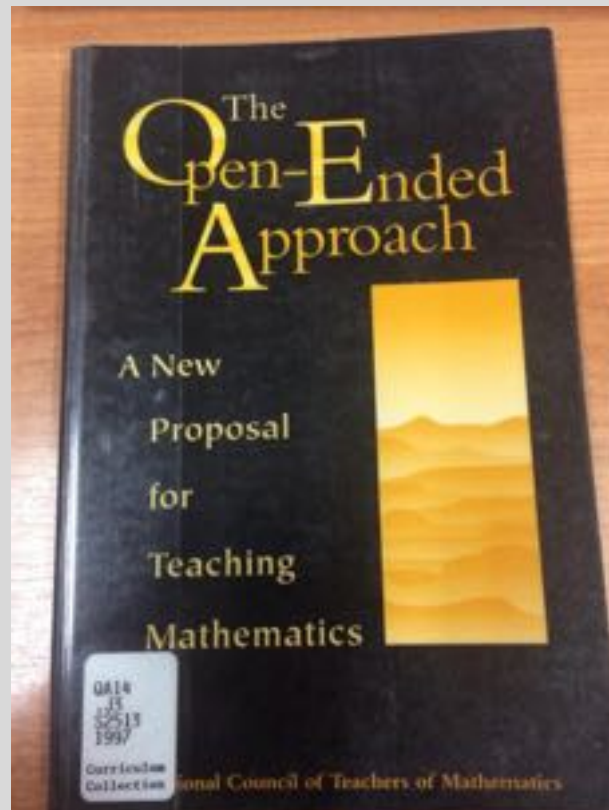
2005

2009

2012

The Thailand 30-year Project (2000 - 2030)

- 2002 carefully designed how to introduce (by Adapting) an idea of **“Innovation for Teaching Math”** to the 4th year student teacher (15 student teachers in 7 schools), the Open-ended Approach and Lesson Study without mentioned any Jargons.



The Thailand 30-year Project (2000 - 2030)

- **2003-2005:** Introducing these two ‘Innovative Ideas’ to some schools through the idea ‘WHY NOT **try this**’ (5 activities) in your classrooms.

(some 800 school teachers in some 20 schools in Khon Kaen nearby)

What we learned is “**teachers’ pedagogical beliefs**” is our challenge in order to further implementing “**innovations**”

Institutionalize and International Collaboration



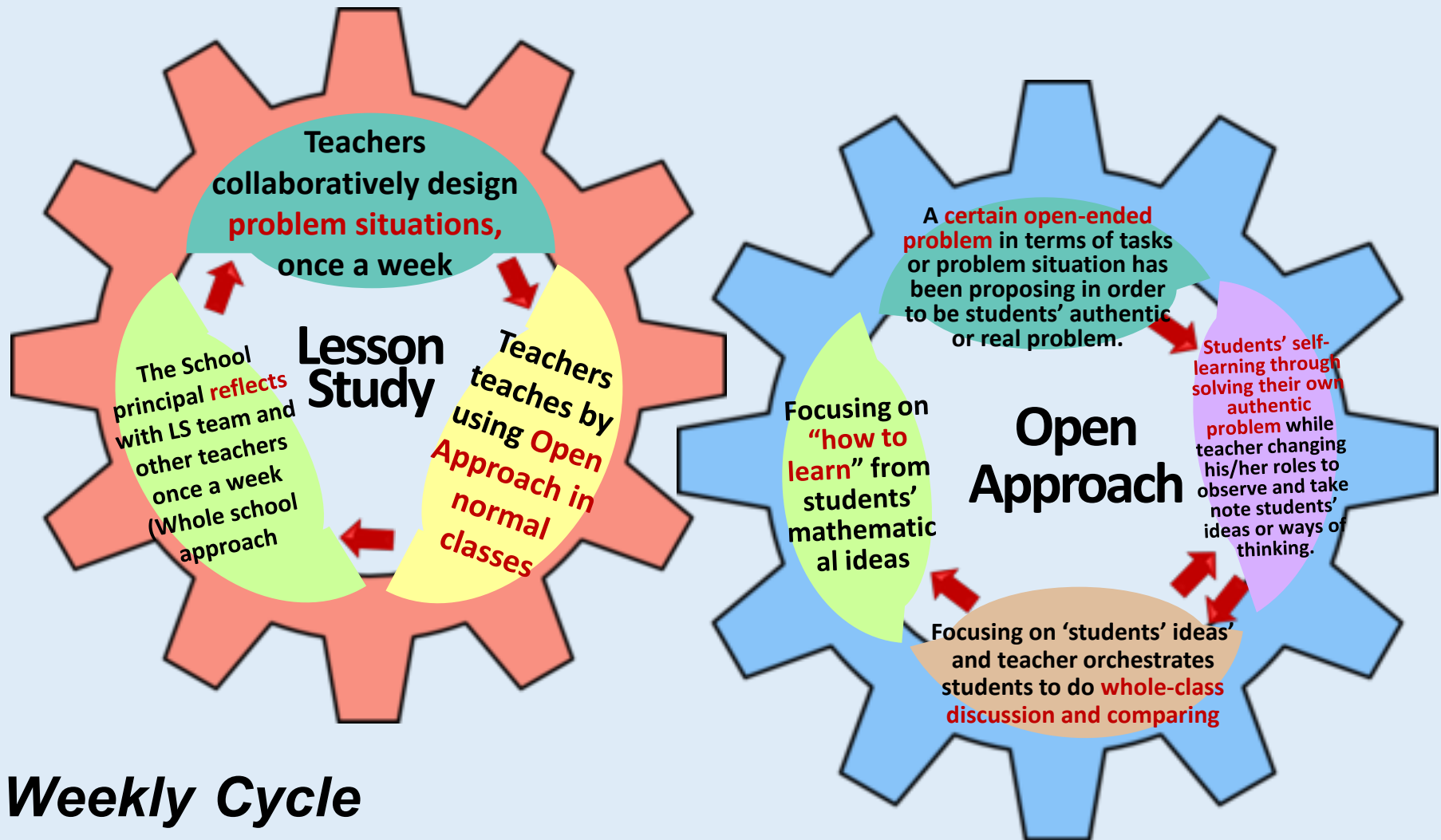
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- 2006-present:

Institutionalize by “**whole School Approach**” with the first 2 project schools by systemize ‘Lesson Study’ and ‘Open Approach’ in order to enculturate “**new school culture**” emphasis on shifting the tradition on ‘*Teacher Alone*’ to teacher as a member of ‘*Lesson Study*’ as ‘**Professional Learning Community (PLC)**’ (e.g. weekly cycle of LS/OA), started with the new roles of the 5th year STUDENT TEACHERS in bringing innovation into schools.

Open Approach Lesson Study: An Adaptive Innovation for teaching Mathematics





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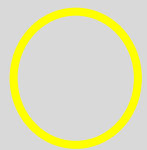
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Scenario at 1st year project school Kookhampittayasan school

School principal and teachers set schools' timetable/ schedule for plan, do, see process.



Scenario at 2nd year project school Banbuennumbuengkrainoon school



Student Teachers

Failure of Thai Traditional Classrooms



Thailand (Inprasitha, 2009)



New Classrooms





25 days for induction workshop at Kosa Hotel, Khon Kaen



In-service Teachers used Open Approach in Mathematics Classroom



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Addition (2)

(Grade 1 Mathematics Textbook, P.77)



9 children are playing in a sandbox
and 4 children are playing on a slide.
How many children are there in all?



Students' idea 1



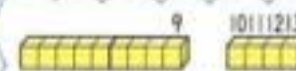
Add 1 and
9 to get 10.



10 and 3
makes 13.



Students'
idea 2

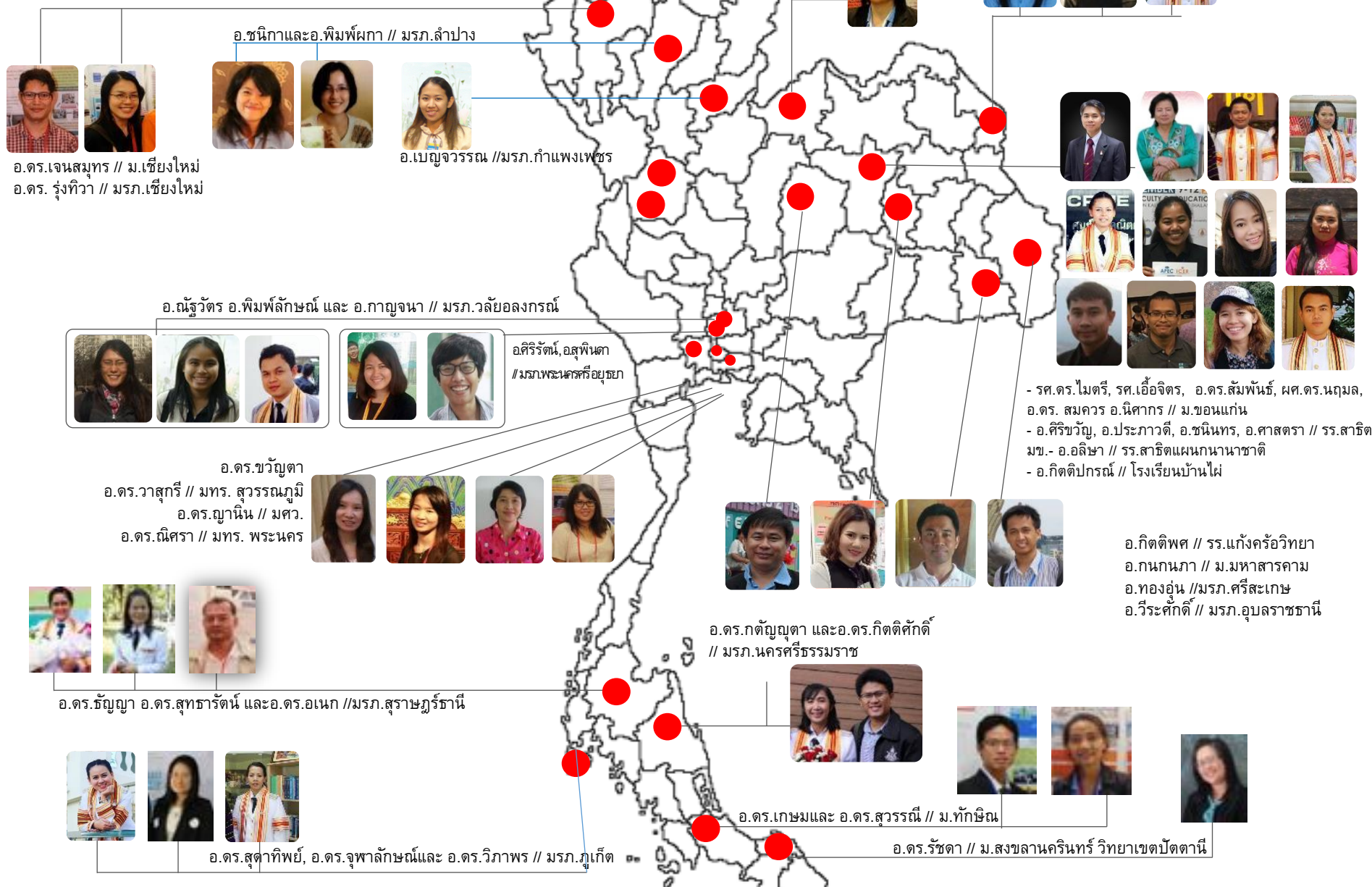


I'll count from 9 to 13.



Students'
ideas

Universities Network in 30-year Thailand Project





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International Collaboration in Education

- 2006-present:



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Internationalize through APEC Lesson Study

APEC - TSUKUBA

International Conference 2006

Collaborative Studies on Innovations for Teaching and Learning Mathematics in Different Cultures
“Innovative Teaching Mathematics through Lesson Study”
15-20 January 2006



APEC-Khon Kaen International Symposium 2006
Collaborative Studies on Innovations for Teaching and Learning Mathematics in Different Cultures
“Innovation and Good Practice for Teaching and Learning Mathematics through Lesson Study”



2019

Way Forward



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- 2013:

Khon Kaen University established Institute for Research in Teaching Profession for ASEAN (IRDTP)



Way Forward



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- Working collaboratively within/outside ASEAN Community, started with our neighboring CLMVT countries with the new challenging issues on **Computational Thinking and Statistical Thinking in School Education** by fading out from subject-based idea



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APEC Lesson Study Project share ideas within and outside ASEAN Community.



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Laos

In 2003-2004, Faculty of Education, KKU by collaboration with Faculty of Science, KKU had launched the Hoshino Project for training the mathematics teachers in Laos PDR at Vientiane.





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The meeting on Cooperation between NCTD and IRDTP to develop Teacher Professional Development in **CLMV countries**.
2 July 2016 at Faculty of Education,
National University of Laos, Laos

Laos





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Workshop “Teaching for Higher-Order Thinking in Mathematics for Lao Teachers -Lesson Study and Open Approach-”

27-29 August 2016

Pakse Teacher Training College, Lao PDR

Laos



Cambodia



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Workshop “Teaching for Higher-Order Thinking in Mathematics for Cambodian Teachers -Lesson Study and Open Approach-”

13-14 June 2016

National Institute of Education, Phnom Penh, Cambodia



Cambodia



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Workshop “Teaching for Higher-Order Thinking in Mathematics for Cambodian Teachers -Lesson Study and Open Approach-”

13-14 June 2016

National Institute of Education, Phnom Penh, Cambodia





Cambodia

Her Royal Highness Princess Maha Chakri Sirindhorn scholarship and KCU scholarship



Myanmar



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SEAMEO RETRAC 18th Governing Board Meeting 17 -18 September 2015, Rangoon, Myanmar



Myanmar



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Philippines

International Conference in Science and Mathematics (ICSME2014)
28-30 October 2014
at UP NISMED, Diliman, Quezon City, Philippines



Philippines



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**SEA-Teacher Project “2nd Evaluation Meeting: Pre-Service Student
Teacher Exchange in Southeast Asia” 7-9 October 2016
UNY Hotel, Ballroom, Yogyakarta, Indonesia**

Indonesia





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The 4th International Symposium on Mathematics Education Innovation: ISMEI 1-3 November 2016

SEAMEO Regional Centre for QITEP in Mathematics, Yogyakarta, Indonesia

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Special lecture at State University of Yogyakarta 2 November 2016

Indonesia

at Seminar Room 2nd floor, FMIPA, State University of Yogyakarta



**THANK YOU
FOR YOUR
ATTENTION**

