



# The 37<sup>th</sup> HRDWG-EDNET Meeting

Brief on Informatics and Data Science Education Reform for Digital, Inclusive and Sustainable Society (InMside II) (Japan, Malaysia, Thailand)

Agenda item: 6

Feb 2020, Malaysia

**Advancing** Free Trade for Asia-Pacific **Prosperity** 



### Objectives and relevance



### Project Title

 Informatics and Data Science Education Reform for Digital, Inclusive and Sustainable Society (InMside II)

### Objectives

- To build the capacity of curriculum developers to produce recommendations for their curricula reform, teacher training, with enlargement of the network.
- Focusing on junior high school.

### Relevance

#### Mission of HRDWG

Develop 21th Century Knowledge and skills For All

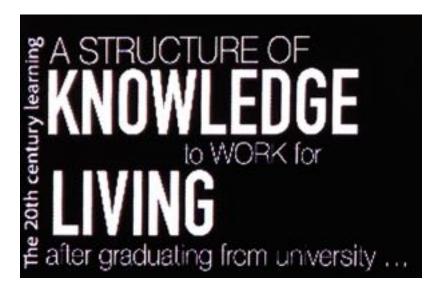
- Priorities of Malaysia
- 1) Inclusive Economic Participation through Digital Economy and Technology
- 2) Driving Innovative Sustainability



Develop Humanity without computer?

### **Develop Humanity**

- Creativity
- Hospitality
- Management





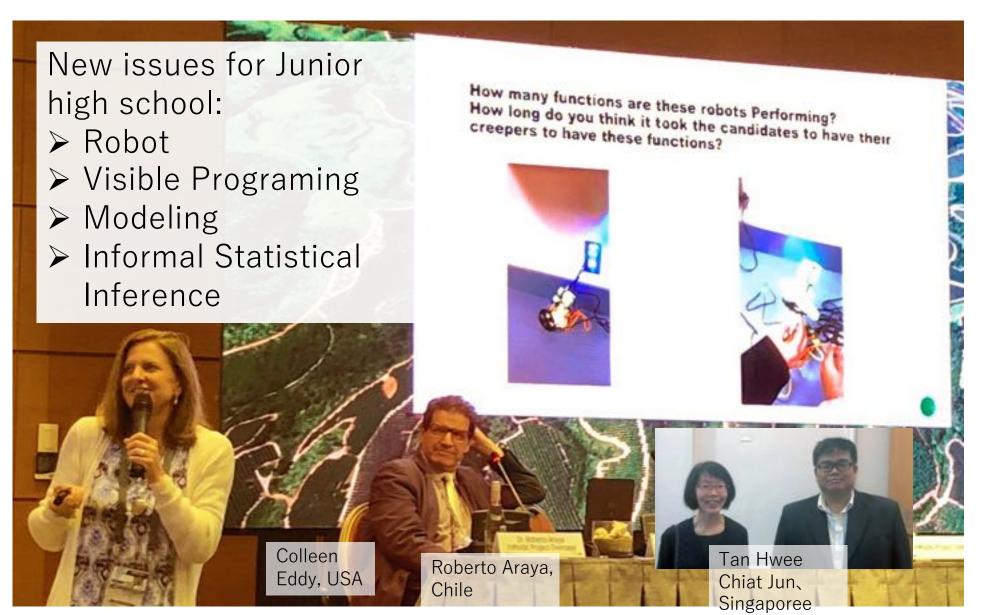
# Develop Digital Competency

Knowing what AI can and cannot















Curriculum specialists share the Vision for necessary competency

on Al and Big Data Era





## Demands and Target





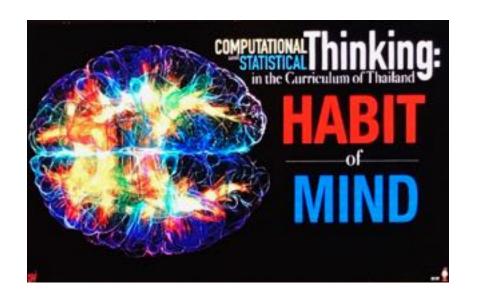
### Demands of EDNET for 2030

- ➤ Modernizing Education Systems
- ➤ Promotion of Science, Technology and Innovation in Education and pedagogical practice
- ➤ Development of 21st century competencies for work and entrepreneurship

Target of InMside (2019 (I): Senior Secondary, 2020 (II): Junior Secondary,

2021 (III): Primary)

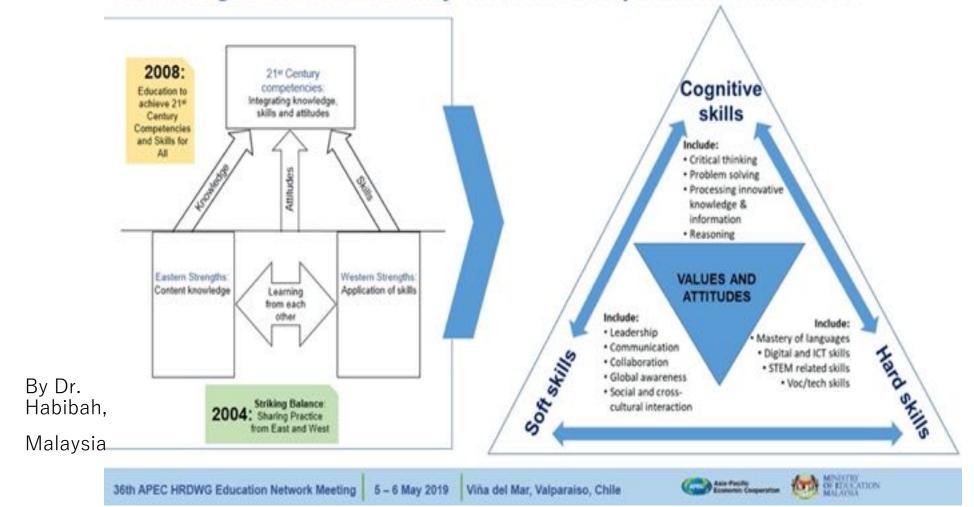
- Training the curriculum specialists on Informatics and Statistics for their necessary curricula reforms on these demands.
- ➤ Developing Recommendation to APEC for their Curricula reforms
- ➤ Establishment of Curriculum Specialists Network







### Revisiting APEC's 21st century skills and competencies framework





### APEC Meeting on Computational Thinking Curriculum for the Digital Economy: Synthesis Meeting for Recommendation. November 18-20, 2019 Thailand

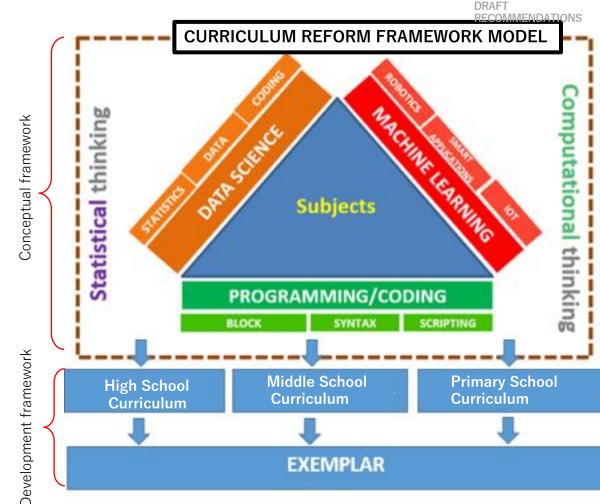


#### **CURRICULUM REFORM FRAMEWORK**

In order to materialized the new curriculum underlying the above said entities, a **Curriculum Reform Framework** model has to be established for the curriculum development process. This model will become the reference **implementation framework model** in carrying out the design process of curriculum formulation and implementation of the new curriculum proposed in each APEC member economies for high school, middle school and primary school respectively.

The propose curriculum reform framework is based on the following implementation framework model.

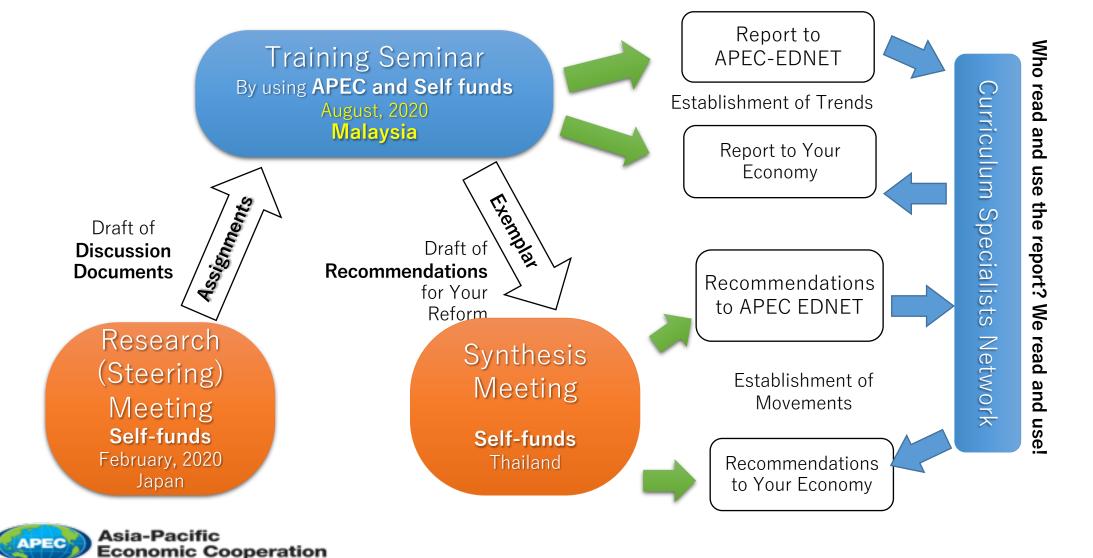
The framework is divided into two main layers which are the conceptual framework and development framework. The first layer is the conceptual framework which defines the important aspects to be addressed in the new curriculum based on the key elements underlined whether it becomes a subject-based curriculum, thematic, interdisciplinary or embedded across curricula. While it is also important for economies to decide on whether to adopt Standard-based Curriculum or Outcome-based Curriculum or Competency-based Curriculum.





# Project Cycle (II)







# Research (Steering) Meeting

Date: 11-12 February, 2020

Venue: Tokyo, Japan

Contents: Research the theoretical

frameworks for curriculum developers on the issues and teacher training modules for preparing the InMside II Seminar in Malaysia





## Training Seminar

Date: August, 2020 (to be confirmed and

announced)

Venue: Malaysia

Contents: APEC economies' curriculum

developers are invited to present the reform on informatics and Statistics curriculum for digital society. It includes keynotes and reports from economies, and plans their challenges for teacher training.





# Synthesis Meeting

Date: November, 2020 (to be confirmed and

announced)

Venue: Thailand

Contents: Elaborates the recommendations to

APEC economies with models for teacher

trainings, and enlarge the curriculum

developers' network.





Thank you very much!





