



5<sup>th</sup> ASEAN NPSR Annual Meeting

# Introduction to ASEAN NPSR

**Kampanart SILVA**, ENTEC, Thailand

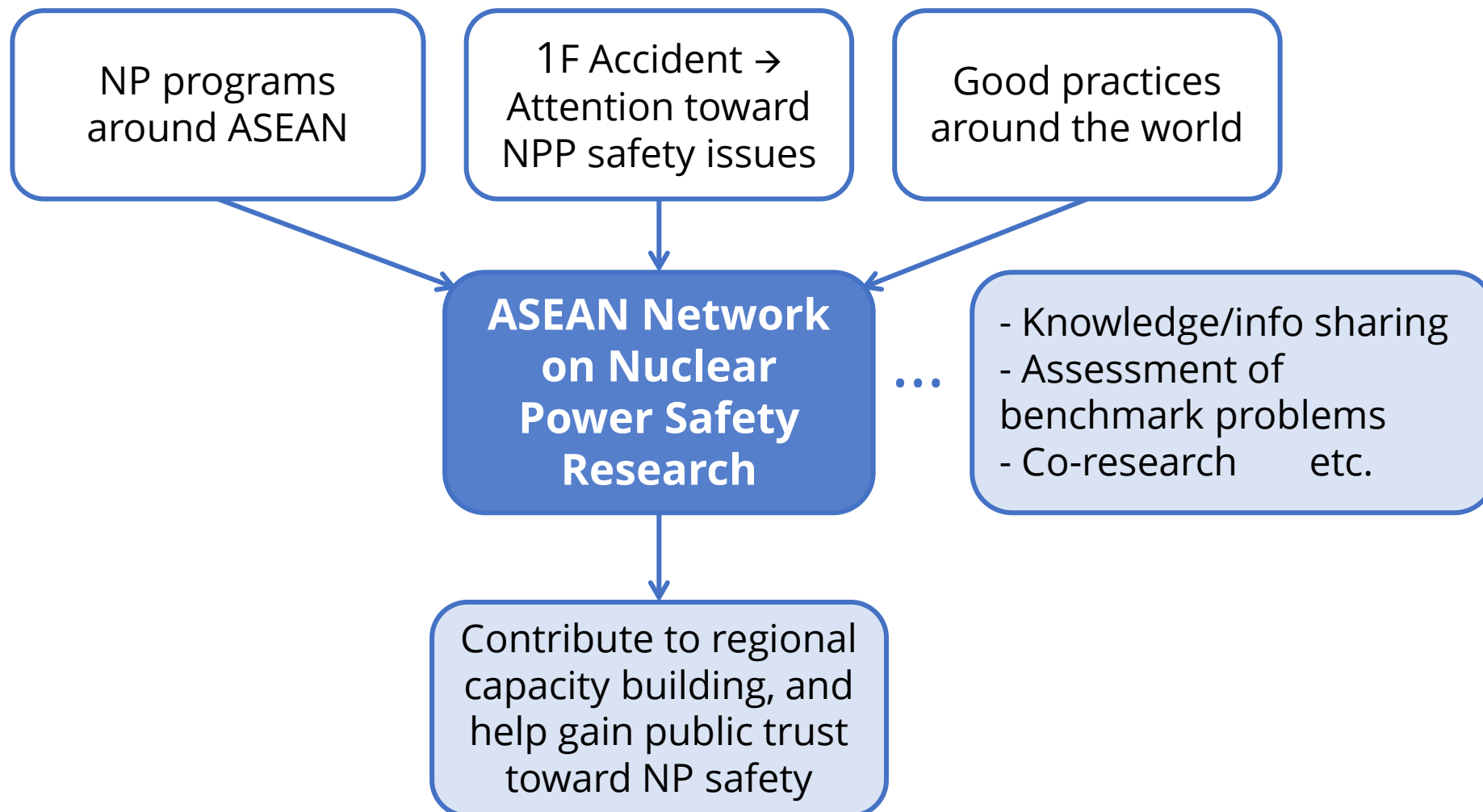
**CHUNG Keng Yeow**, SNRSI, Singapore

ASEAN Network on Nuclear Power Safety Research (ASEAN NPSR)

<http://aseannpsr.com>



# Motivation



March 9, 2017

### Joint Communiqué

on

#### the Establishment of ASEAN Network on Nuclear Power Safety Research

We, the Heads of delegation of countries participating in Kick-off Meeting for ASEAN Network on Nuclear Power Safety Research at Dusit Thani Hotel, Bangkok, Thailand, on March 9, 2017 - the Lao People's Democratic Republic, Malaysia, the Republic of the Union of Myanmar, the Republic of the Philippines, the Republic of Singapore, the Kingdom of Thailand and the Socialist Republic of Vietnam,

Realizing the increasing attention from countries around the world, including ASEAN countries, toward nuclear power,

Recalling the accident at the Fukushima Daiichi Nuclear Power Plant which led to widespread consequences in a regional scale, including the release of radioactive material, the contamination of the area around the power plant, social disruption, and public anxiety,

Recognizing current research activities in the field of nuclear power safety, country needs, available resources, gaps to be fulfilled, presented by each country in the 2nd ASEAN Workshop on Nuclear Power Safety Research, on March 7 - 8, 2017,

Acknowledging the milestones toward the establishment of ASEAN Network on Nuclear Power Safety Research completed by Thailand Institute of Nuclear Technology (TINT) and Vietnam Atomic Energy Research Institute (VINATOM), including the convention of the Workshop on Establishment of ASEAN Network on Nuclear Power Safety Research at the ASEAN-EU Science, Technology and Innovation (STI) Days in Hanoi in May 2016, and the support of the network establishment from the Sub-Committee of Sustainable Energy Research (SCSER) under ASEAN Committee of Science and Technology (ASEAN-COST),

Appreciating good scientific assistance from the European Union and the International Atomic Energy Agency (IAEA),

Decided to formally establish the ASEAN Network on Nuclear Power Safety Research, and become the Member States of the said network.

We invite Brunei, Kingdom of Cambodia and the Republic of Indonesia to participate in the said network.

- Started as a **joint workshop between Vietnam and Thailand** in 2015 which was repeated in early 2016.
- Continued as **ASEAN Workshop on Nuclear Power Safety Research in May 2016**, participated by 7 AMSs: Lao People's Democratic Republic, Malaysia, the Republic of the Union of Myanmar, the Republic of the Philippines, the Republic of Singapore, the Kingdom of Thailand and the Socialist Republic of Vietnam.
- **Formally established as ASEAN Network on Nuclear Power Safety Research on March 9, 2017**, when the 7 AMSs agreed upon the Joint Communiqué.

## Goal

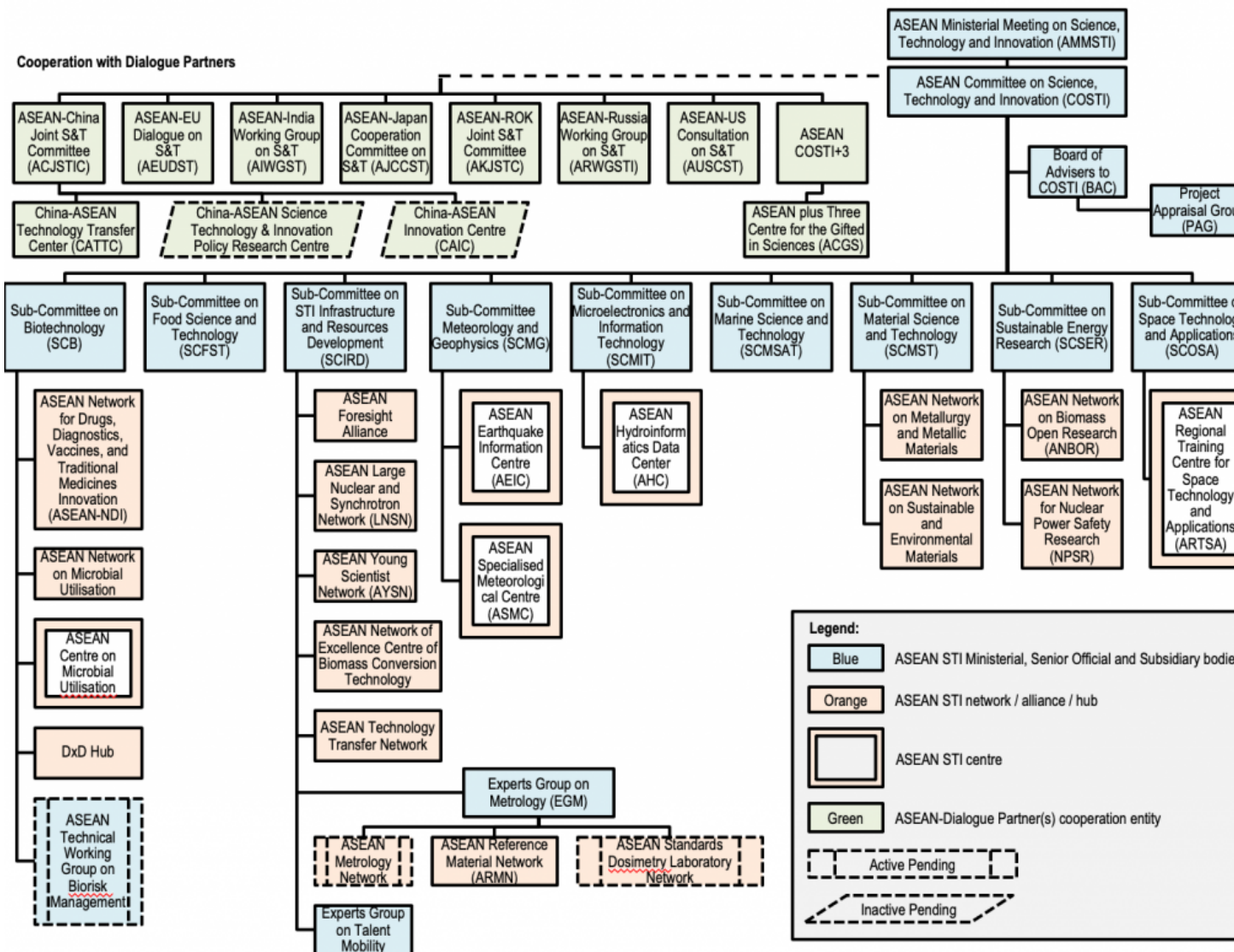
- Strengthen **research and development (R&D), human resource development and regional cooperation** in the field of nuclear power safety in ASEAN in order to support the formulation of the regional strategy for accident management and to be consistent with the IAEA Safety Standards

## Objectives

- To be the **regional platform** in the field of nuclear power safety research to **promote the data and information sharing and cooperation** among the Member States
- To **fulfill the needs and address the gaps of countries** in the ASEAN region in R&D
- To **strengthen the capability in R&D** of the Member States in order to be able to provide the technical support for decision making
- To establish and enhance the cooperation between the ASEAN network and **the IAEA** and other relevant international organizations

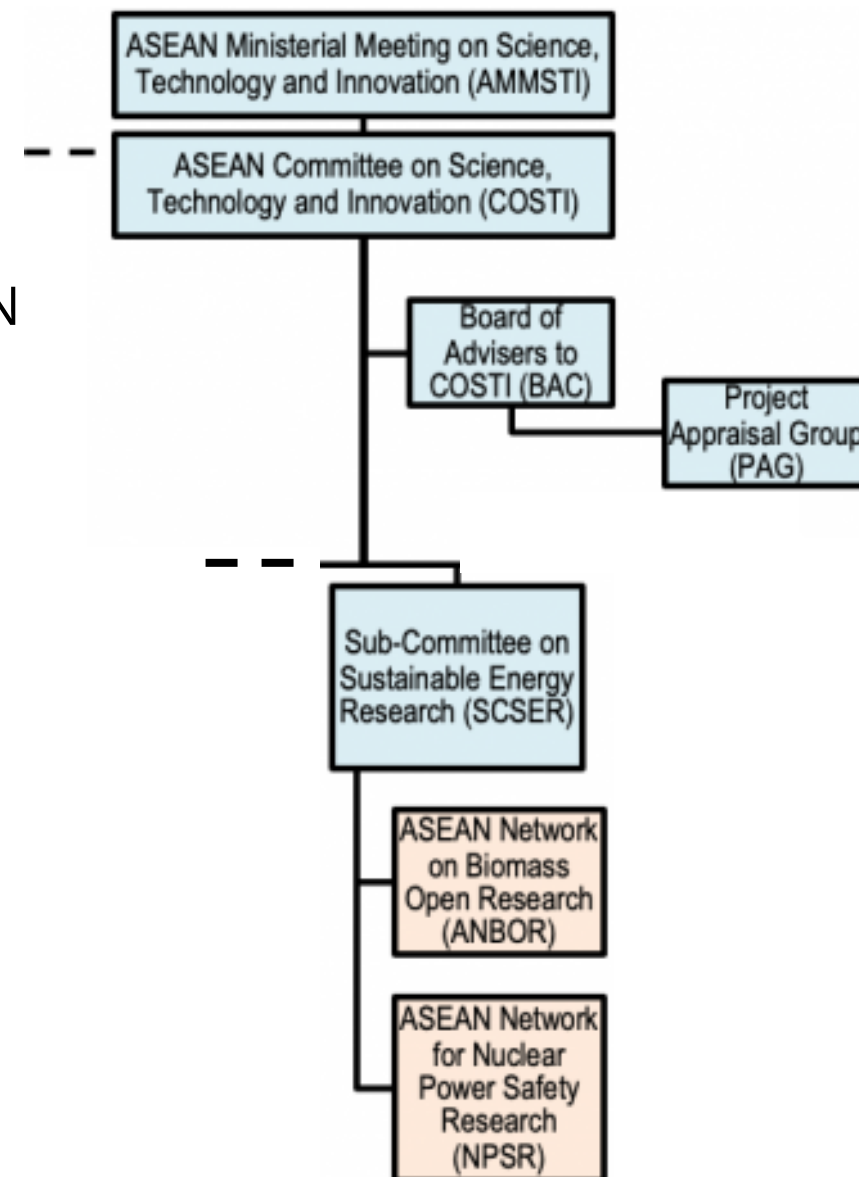


# Relationship to ASEAN



## Relationship to ASEAN

- AMMSTI is governing the direction of STI in ASEAN
  - Representatives to AMMSTI are basically ministers of a relevant ministry
- COSTI reports to AMMSTI
  - Representatives to COSTI are basically permanent secretaries of a relevant ministry
- BAC provides advice to COSTI to assist the decision-making
- **SCSER reports to COSTI**
- **NPSR is a network being monitored by SCSE**
  - **NPSR reports to SCSE**
  - **SCSER Chair will summarize the updates and report to COSTI**



# Timeline

2016

- 1<sup>st</sup> Workshop for ASEAN Network on Nuclear Power Safety Research
- Start of benchmark problem assessment by Thailand and Vietnam (Sep)
- Support of the network establishment by SC SER (Oct)



# Timeline

2017

- 2nd ASEAN Workshop on Nuclear Power Safety Research and **Kick-off Meeting** for ASEAN Network on Nuclear Power Safety Research (Mar)
- Formal network establishment (@ASEAN Next 2017) Thailand is the 1st lead country
- Endorsement by ASEAN SC SER and approval by ASEAN COST (Oct)



# Timeline

## 2018

- 2nd ASEAN Network on Nuclear Power Safety Research Annual meeting and finalization of details of benchmark problem (Mar)
- Online project meeting: once every three months (June, Sep, Dec)

## 2019

- 3rd ASEAN NPSR Annual meeting and nomination of Thailand as lead country and Singapore as Co-lead (Mar)
- Continued progress on the Benchmark Problem (June & Sep)
- Wrapping up of the Benchmark problem (Dec)





# Timeline

2020

- Preparation for publication of Benchmark problem (Jan)
- *Cancellation of 4<sup>th</sup> ASEAN NPSR annual meeting (Mar)*
- ASEAN NPSR Virtual Regional Workshop (Nov)

2021

- Publication of Benchmark problem in Progress of Nuclear Energy Journal (May)
- 4<sup>th</sup> ASEAN NPSR Annual Meeting (Jun, Virtual)

2022

- 5<sup>th</sup> ASEAN NPSR Annual Meeting (Oct)



# Activities of the Network

## Research Collaboration

- Benchmark Problem
- Strengthen R&D
- Fulfill & gaps in ASEAN region

## Annual meeting

- Update on Progress
- Regional platform

## Workshop

- Strengthen capability
- Further develop the research topic



# Looking Ahead

- In the coming year (before next 6<sup>th</sup> ASEAN NPSR Annual Meeting)
  - Workshops on relevant areas of interest (to discuss and be determined during this Meeting)
  - Next Level Benchmark Problem on Atmospheric Dispersion (to be determined during this meeting)
  - Pairing of Member States for mutual learning and sharing of resources (for discussion)
  - Update platform
- Future directions
  - Regional Technical Conference on Nuclear Power Safety
  - MoUs and Research Agreements among members of ASEAN NPSR
  - Connecting ASEAN NPSR to other regional networks or groups
  - Shared activities for Public Outreach and Education



# Thank You

## Thank You

**Kampanart SILVA**, ENTEC, Thailand

**CHUNG Keng Yeow**, SNRSI, Singapore

ASEAN Network on Nuclear Power Safety Research (ASEAN NPSR)  
<http://aseannpsr.com>