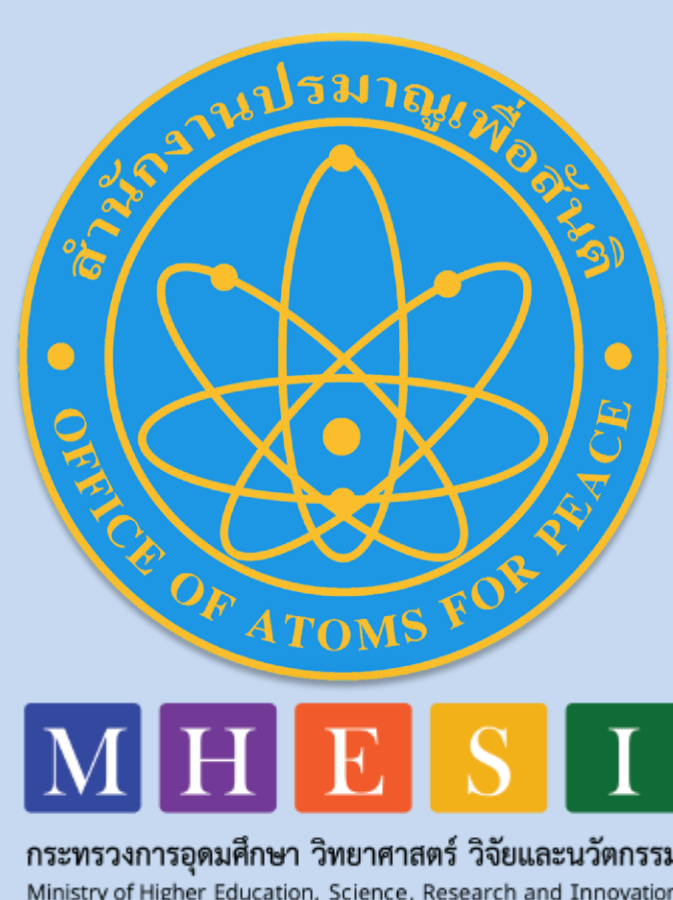


Implementation of Thailand's Integrated Nuclear Security Support Plan (INSSP)

A. RUEANNGOEN* , P. PHAUKKACHANE, S. TONG-IN, K. CHANGKRUENG, H. KASIWATTANAWUT, T. TULARAK, H. MUNGPAYABAN
Email : areerak.r@oap.go.th



Office of Atoms for Peace, Ministry of Higher Education, Science, Research and Innovation Bangkok, Thailand

1. INSSP

The INSSP enables the State concerned, the IAEA and other entities willing to provide nuclear security assistance to plan and coordinate activities from both a technical and a financial point of view. This optimizes the use of resources and reduces the risk for duplication. Furthermore, it aids States in preparing and implementing necessary nuclear security improvements

A typical INSSP presents six functional areas of work related to nuclear security:

- 1) legislative and regulatory framework
- 2) threat and risk assessment
- 3) physical protection regime
- 4) detection of criminal and unauthorized acts involving material out of regulatory control
- 5) response to criminal and unauthorized acts including material out of regulatory control
- 6) sustaining a nuclear security regime

Ref: <https://www.iaea.org/topics/integrated-nuclear-security-support-plan-inssp>

3. Implementation

The approval of the Thailand's INSSP enables all stakeholders such as IAEA or Donor Countries to plan and coordinate activities from both technical and financial viewpoints to fulfill needs and identify gaps in INSSP document.

The first implementation period focused on the areas of Threat and Risk Assessment as well as Response:

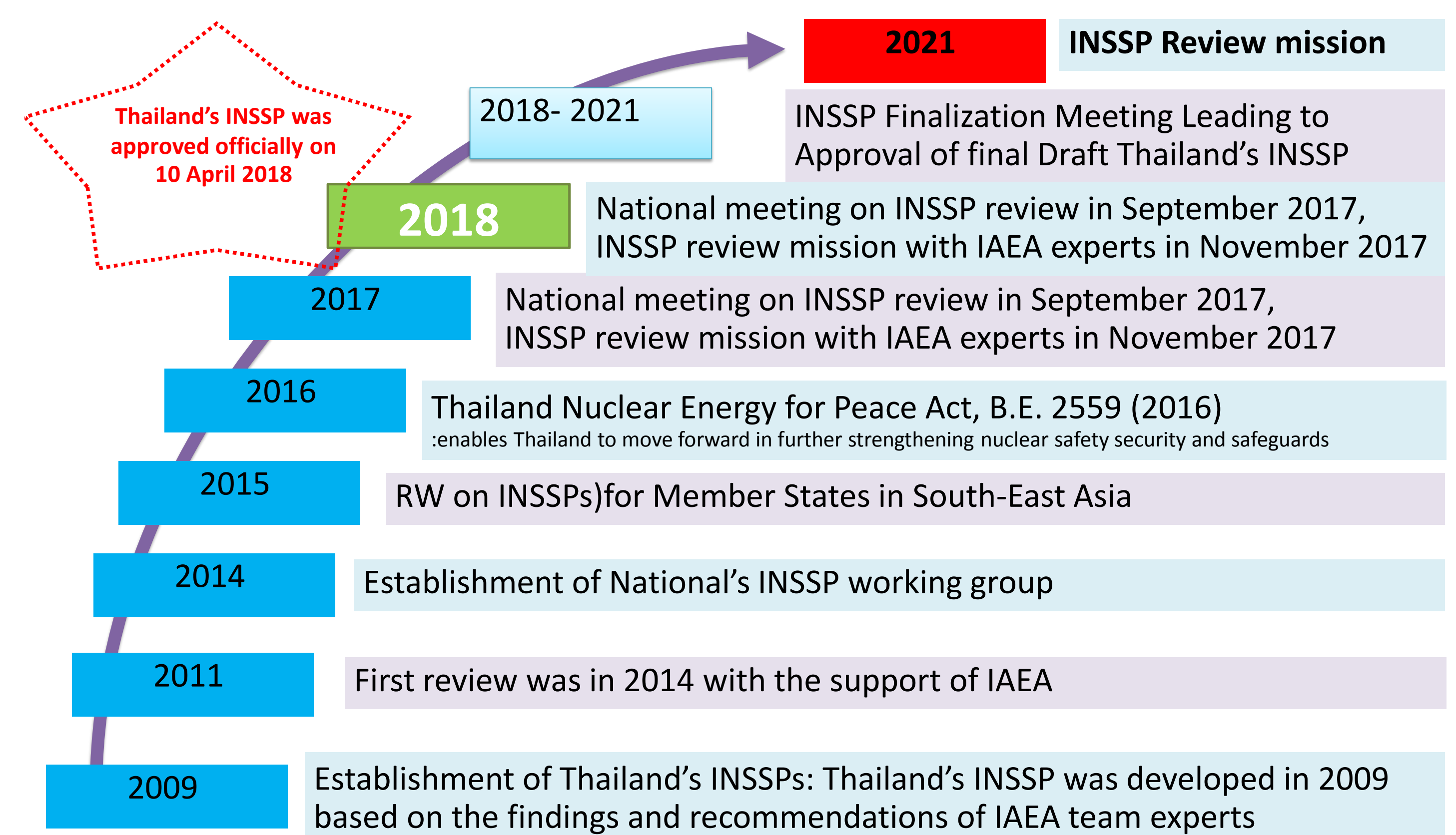
1. National Training Course on authorizations and inspections for security of radioactive material and associated facilities, November 2018
2. National DBT Workshop in Q4 2018
3. Expert Mission on strengthening technical capabilities of the OAP nuclear forensics lab,
4. National Workshop on NUSIMS , Q1 2019
5. National Workshop on National Response Plan for Nuclear Security Events, 2019
6. National Workshop on Nuclear Security Information

Training on Nuclear Security 2018-2019	Organizer
➤ Security in the Transport of Radioactive Material for Operators (RAM-200) Training Course	U.S.DOE
➤ RTC on Conducting Computer Security Assessments at Nuclear and Other Radioactive Material Facilities	IAEA-NSNS
➤ Security in the Transport of Radioactive Material (RAM400 Instructor-Led Workshop)	U.S.DOE
➤ NTC on Authorizations & Inspections for the Security of Radioactive Material and Associated Facilities	IAEA-NSNS
➤ National Workshop on Threat Assessment and Development of a Design Basis Threat (DBT)	IAEA-NSNS
➤ National Workshop on Nuclear Security Information Management System (NUSIMS)	IAEA
➤ Agency Mission to Enhance Nuclear Forensics Capabilities in Thailand	IAEA/OAP
➤ ASEANTOM/NSNA Initial Training on Exercise Development Training Series (EDTS)	U.S.DOE
➤ Site Security Plan Development	U.S.DOE
➤ National Workshop on Developing a National Framework for Managing the Response to Nuclear Security Events	IAEA-NSNS
➤ National Workshop on Responding to Nuclear Security Events at Venues and other Strategic Locations at MPEs	IAEA-NSNS
➤ IAEA Regional Workshop to Develop a Road Map for Building a Nuclear Security Detection Architecture	IAEA-NSNS
➤ IAEA Regional Workshop on Threat Assessment and a Risk Informed Approach for Nuclear and Other Radioactive Material out of Regulatory Control	IAEA-NSNS

5. Challenges

- ☐ Promoting Nuclear Security Culture
- ☐ Enhancing the Human Resources capability
- ☐ Communicating and coordinating with all stakeholders
- ☐ Finalizing the National Nuclear Security Plan

2. History of Thailand's INSSP



Thailand's INSSP was approved officially on 10 April 2018.

4. Best practice

- ✓ Practical Arrangements (PA) between The International Atomic Energy Agency and Office of Atoms for Peace on Cooperation in the Area of Nuclear Forensic Science
- ✓ CRP on CRP: Applying Nuclear Forensic Science to Respond to a Nuclear Security Event
- ✓ Updated the Design Basis Threat
- ✓ Update the National Response Plan
- ✓ Update status of National Nuclear Security Plane
- ✓ Well-trained Nuclear Security person
- ✓ Strengthen National and International Network
- ✓ Setting up the National NSSC
- ✓ Establishment of the National Nuclear Security Working Group
- ✓ Establishment of the I Nuclear Security Culture Working Group



National Workshop on Developing a National Framework for Managing the Response to Nuclear Security Event



National Design Basis Threat : Review Information



IAEA Regional Workshop on Threat Assessment and a Risk Informed Approach for Nuclear and Other Radioactive Material out of Regulatory Control



Agency Mission to Enhance Nuclear Forensics Capabilities in Thailand



Practical arrangements between the IAEA and OAP Cooperation in the area of Nuclear Forensic Science

6. Way forward

After the implementation of INSSP, nuclear security activities in Thailand became widely recognized at the policy maker level, which is the key driving force for sustaining nuclear security in the country. The successful implementation of INSSP can assist the State in developing and maintaining a strategy on enhancing nuclear security

- ✓ Sustainability of Nuclear Security Regime
- ✓ Awareness raising, Sharing information and experiences
- ✓ Clear and well defined responsibilities of all relevant institutions
- ✓ Cooperation between countries with similar level of Nuclear Security and similar issues
- ✓ Radiological Crime Scene Management Workshop

Acknowledgement: IAEA and OAP for financial support

International Conference on Nuclear Security: Sustaining and Strengthening Efforts (ICONS 2020) 10-14 February 2020