

Indonesia's Experiences for Supporting Effective Nuclear Security Culture

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Outline

INTRODUCTION 01 Nuclear Security Culture

Role and Responsibility 02

How can we support effective nuclear security culture?

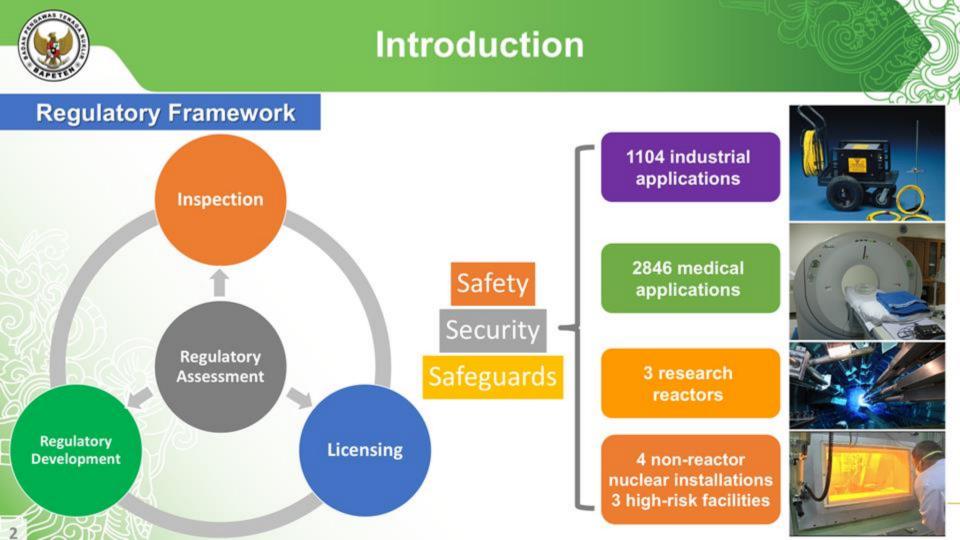
Building up Nuclear Security Culture 03

Be sure to feel, think, and act based on security culture



PLANNING AHEAD

Capacity Building as never ending process





How do we maintain sustainable nuclear security culture

01. Enforcing regulation

03. Creating belief and implant them to the society that security is important



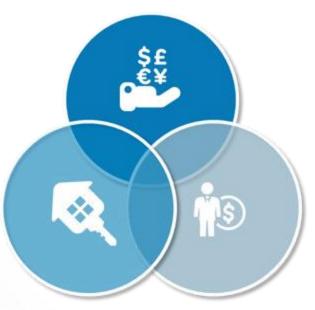
02. Sharing role and responsibility for the state, organizations, and communities

04. Encouraging the individuals to feel, think, and act for the security



05. Threat assessments are conducted on national basis, regional basis, and facility basis

06. People need to think and understand that threats are real, attacks may take place at anytime, anywhere, by anyone



07. Cybersecurity should be taken into account in nuclear security culture



02 Role and Responsibility

How can we support in strengthening nuclear security culture?

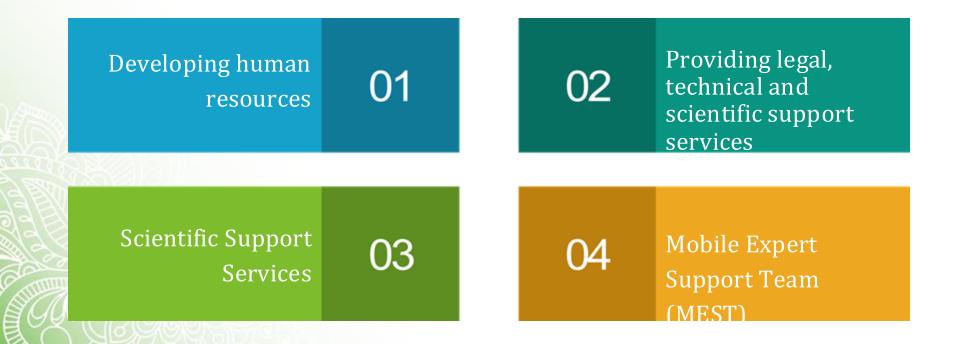


Establishing I-CoNSEP Indonesia Centre of Excellence on Nuclear Security and Emergency Preparedness





There are four main roles of I-CoNSEP





Role and responsibility of stakeholders nuclear security

Agencies	Roles/responsibility
Co-ordinating Ministry of Politics, Law and Security	Advisory and coordination roles for nuclear security
Nuclear Energy Regulatory Agency (BAPETEN)	 Regulatory Body for nuclear security at facility level National Policy of Nuclear Security Planning of nuclear security capacity and capability Certification of human resources in nuclear security Accreditation of training provides PoC NSSC to the IAEA
National Police	 On scene commander for crisis control Advisory on threat assessment and risk mitigation Crime scene investigation Forensic support
Directorate General of Customs and Excise (DJBC), Ministry of Finance	Border monitoring Export control
Ministry of Transport	 Transport regulator, including security requirements at seaports and airports Port Authorities
Port Operators	 Implementation of port security
Ministry of Defense	Advisory on national security matters and strategy
Ministry of Law and Human Rights	 International and national laws advisory services
Ministry of Research and Technology	Advisory on science and technology policy and development



Role and responsibility of stakeholders nuclear security

Agencies	Roles/responsibility
National Counter Terrorism Agency (BNPT)	 Advisory on counter-terrorism matters and strategy
State Intelligence Agency (BIN)	Advisory and provide intelligence on nuclear security
Maritime Security Co-ordination Agency (BAKAMILA)	 Advisory and coordination on maritime security
Gajah Mada University (UGM) and Defense University	 Partner university for nuclear security Members of the International Nuclear Security Education Network (INSEN)
National Nuclear Energy Agency (BATAN) (now BRIN)	 National nuclear research and development institute Scientific support Maintenance of equipment Training Centre Forensic support
Directorate of International Security and Disarmament (KIPS), Ministry of Foreign Affairs (MoFA)	Advisory on nuclear security and international laws
Port Health Office-Ministry of Health	 To Perform radiation monitoring on personnels and the environment on the ships and/or airplanes which are going to dock at the seaport and/or airport



Activities in collaborations for sustaining nuclear security culture conducted by BAPETEN

- Field Exercise with the Maritime Security Agency
- Periodic TFT (training for trainers) for Front Liners in Customs and Excise Directorate
- FielderExercise with BRIN etc for Physical Protection







Activities in collaborations for sustaining nuclear security culture conducted by BAPETEN

 Supporting national product of radiation portal monitoring for providing infrastructure in nuclear security detection





Activities in collaborations for sustaining nuclear security culture conducted by BAPETEN

 In collaboration with other agencies for ensuring security in national and international events in Indonesia





03 Building Up Nuclear Security Culture Be sure to feel, think, and act based on nuclear security culture



Challenges in Supporting Nuclear Security Culture

Nuclear energy in Indonesia is not yet well known

Nuclear security culture needs to be included in law

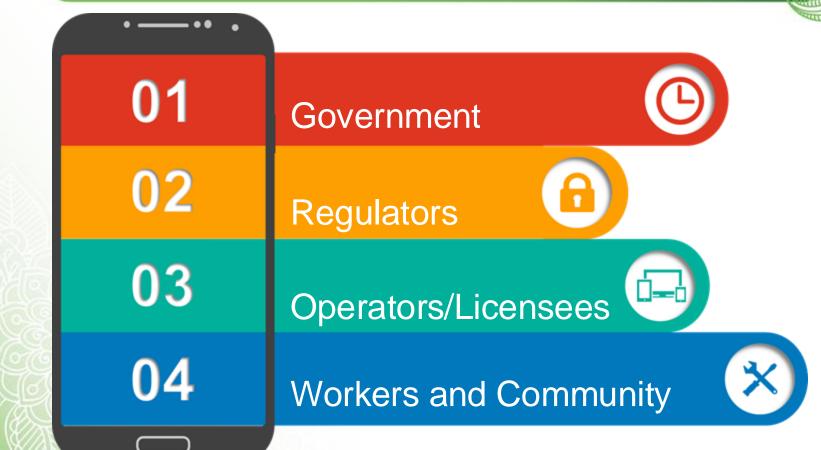
Limited budget allocation

Small number in capable human

resources



Collaboration in Sinergy for Nuclear Security Culture





04 Planning Ahead Capacity Building, Evaluation, and Assessment



In real world nuclear security can not be maintained by only a stand-alone agency

There is always a need to provide sufficient information to other related agencies:

- Trainings
- Workshops
- Training for Trainers

Human resources in Nuclear Security should be considered as valuable assets



Strategic Plans

Propose a national priority program in enhancing nuclear security culture

Strengthen coordination and collaboration with other national and international agencies

Ensure to get adequate budget



Threat Assessment for Composing National Design Basis Threat



Threat Informed Analysis



Taking into account the police reports of National Police (Criminal Investigation Agency)



In coordination with National Intelligence Agency, National Counter Terrorism Agency, Military



Implemented for further analysis in nuclear security detection architecture



Me, myself and my presentation

Professional Experiences

- 1. Nuclear Regulatory Officer in BAPETEN - Indonesia
- 2. Lecturer in Universitas Islam Indonesia - Yogyakarta
- 3. Data Manager for PADCO Washington on Yogyakarta Strategic Action Plan
- 4. Drilling Services Engineer in Schlumberger (North South America Region)



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I attended these schools:

- Doctorate Program in Computer Science (Cybersecurity for Nuclear Security)
- 2. Master in Nuclear Quantum Engineering (KAIST - South Korea)
- 3. Bachelor in Electrical Engineering (Universitas Gadjah Mada)



Thank You Questions are welcome for further discussion