



**BADAN PENGAWAS TENAGA NUKLIR**  
Nuclear Energy Regulatory Agency



# **“THE RESPONSE OF THE INDONESIAN AUTHORITIES TO THE FUKUSHIMA ACCIDENT**

*IAEA Ministerial Conference on Nuclear Safety*

*Vienna, Austria*

*20 – 24 June 2011*

**DEDIK EKO SUMARGO**

*Director for Inspection of Nuclear Installation and Nuclear Material*

*BAPETEN*

*Nuclear Energy Regulatory Agency*

*INDONESIA*



## Regulatory Infrastructure

- Act No.10/1997 on Nuclear Energy:
  - Establishment of BAPETEN (Nuclear Energy Regulatory Authority), which performs regulation, licensing and inspection in order to ensure the safety of radiation worker and public, and protection to the environment;
  - As the basis for safety, security and safeguards regulation.
- Act No. 24/2007 on National Disaster Countermeasure.
  - Platform for natural and man-made disaster mitigation program.
- BAPETEN Chairman Regulation No.01/2010 on Nuclear Emergency Preparedness and Response
- **Final Draft: GR on National Emergency Preparedness System.**



## Regulatory Infrastructure

- Presidential Regulation No.81/1993 on Ratification of Convention on Early Notification of a Nuclear Accident:
  - To provide information to the IAEA in case of nuclear accident;
- Presidential Regulation No. 82/1993 on Ratification of Convention on Assistance in the Case of a Nuclear or Radiological Emergency:
  - To provide or assistance to other countries, and vice versa.;
- Presidential Regulation No.106/2001 on Ratification of Convention on Nuclear Safety:
  - To establish emergency response plan (Nuclear Emergency Preparedness System).



## The Role of BAPETEN

- To promote national policy on nuclear/radiological emergency preparedness and response;
- To coordinate and enhance national capability in nuclear/ radiological emergency preparedness and response;
- BAPETEN established a Crisis Centre and national emergency number (24/7): Ph: +62 (21) 6385-6518, Fax: +62 (21) 630-2187.
- Depending on the scale of the accident, BAPETEN may monitor or directly observe to ensure that appropriate measures were taken by the intervention organization and the consequences were minimized.
- To coordinate with the IAEA:
  - NCA-A: The Chairman of BAPETEN,
  - NCA-D: Deputy Chairman of BAPETEN for Licensing and Inspection,
  - NWP: Director of Engineering Support and Emergency Preparedness, BAPETEN.



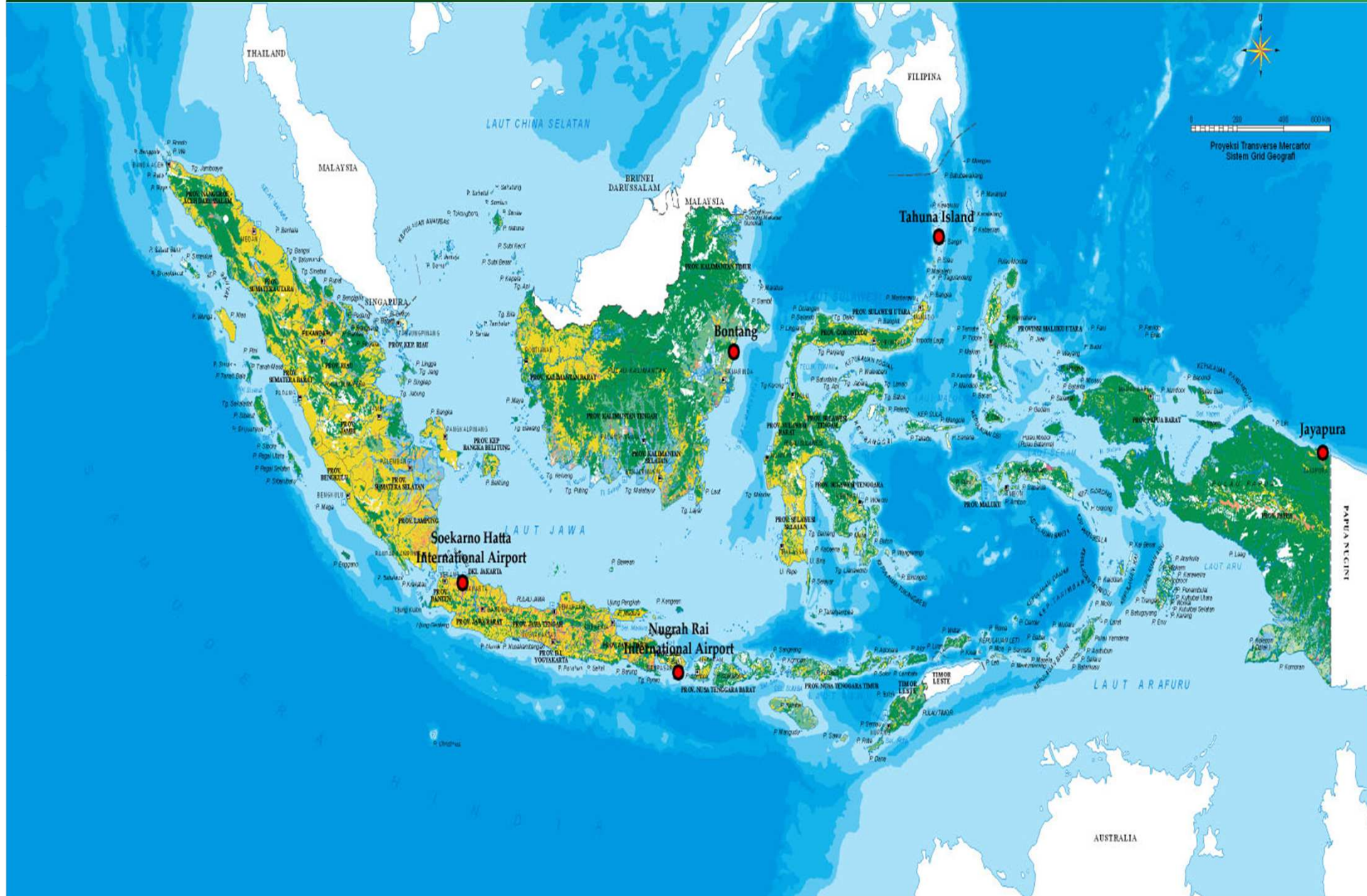
## **THE RESPONSE OF THE INDONESIAN AUTHORITIES TO THE FUKUSHIMA ACCIDENT**

- On March 15, 2011, Chairman of BAPETEN ordered to conduct a coordination response with various ministries, consist of : Ministry of Health, Ministry of Agriculture, Ministry of Foreign Affairs, BATAN (National Nuclear Energy Agency), BPOM (Food and Medicine Regulatory Agency), BMKG (Meteorology Agency ), and Custom Agency. This response includes ensuring whether there is possibility of radiation contamination on civil aviation, goods transportation from Japan to Indonesian territory, and conducting measurement of radiation or contamination level in environment (air and sea water) in the northern region of Republic of Indonesia
- Provide current status information of Fukushima accident to the public through BAPETENs website
- Result showed that there is no radiological contamination (air and sea water) and no radiological contamination on airplanes and ships which arrived at Indonesian territory. There were 5 citizens of Indonesia which arrived by airplanes were contaminated with extremely low level contamination on their clothes and baggages.



# BADAN PENGAWAS TENAGA NUKLIR

## Nuclear Energy Regulatory Agency





## Inter-departmental cooperation :

- Ministry of Health
- Ministry of Agriculture
- Ministry of Transportation
- National Nuclear Energy Agency (BATAN)
- Meteorological and Geophysical Agency (BMG)
- Custom Agency
- BPOM (Food and Medicine Regulatory Agency),
- National Army (Incl.: Company of Nuclear, Biology and Chemistry)



## Strengthening the capability

Area of improvement needed from Self Assessment :

- Identifying, notifying and activating
- Taking mitigatory actions
- Providing information and issuing instructions
- Protecting emergency workers
- Managing the medical response
- Keeping the public informed
- Taking agricultural, countermeasures against contamination, ingestion
- Mitigating the non-radiological consequences of the emergency and the response





## International Cooperation

- International cooperation (and especially Asian networking) is very important to enhance and gain maturity for national capability building in emergency preparedness and response:
  - Human Resource Development.
  - Tailoring and integrating departmental program into a comprehensive national program.
  - Information and knowledge exchange.
  - International recognition



## **LESSONS LEARNED**

- Need of rules or regulation which can warrant emergency preparedness system and nuclear response.
- To enhance strategic coordination among ministries and institutions in national and regional level in the field of nuclear emergency preparedness and response.
- To enhance skill and knowledge of Responder.
- To provide reliable supply of equipment and supporting infrastructure for nuclear/radiological response, which include integrated Early Warning System.
- To conduct timely and integrated nuclear/radiological exercise program in national and regional level.



**BADAN PENGAWAS TENAGA NUKLIR**  
Nuclear Energy Regulatory Agency



**THANK YOU**