

# Consultancy Meeting for the Revision of the Mobile Expert Support Team (MEST) Training Material



18 February 2015



**IAEA**

International Atomic Energy Agency

# Overview

- Projects equipment
- Process Flow
- Progress Update
- Purpose of sustainability assurance
- Development of strategic documents
  - Legislation
  - Detection & Respond strategy
  - Standard Operating Procedure
  - Training
  - Maintenance Plan
- Next Process
- Plan for 2012

# Current Status

## *Port of Belawan, Medan (Sumatera Island)*

- Installation completed and commissioned in August 2012
- IAEA warranty expire end of August 2014
- OIOS visited and comments were conveyed to Indonesia that require urgent enhancement measures as follows;
  - Effective operations of RPMs installed at Port of Belawan
  - Distributions of handhelds equipment to support customs verification

# *Port of Belawan, Medan (Sumatera Island)*

## Status, Issues and Challenges

- Equipment malfunction due to weather conditions addressed by IAEA
- The spare parts were shipped for future use
- Current installed location is not ideal due to lack of understanding and communication challenges during the decision to place the first RPM in Belawan

# *Port of Belawan, Medan (Sumatera Island)*

## **Proposed Actions**

### **Indonesia**

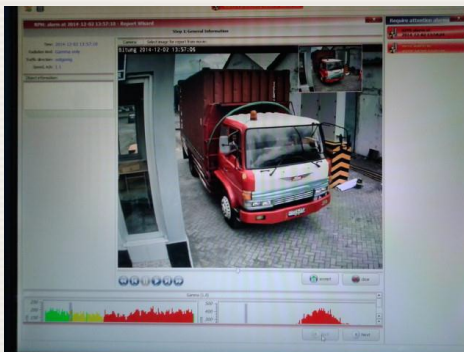
- Enhancement of National arrangements to coordinate detection and response at borders between Front Line Officers (FLO) (Customs) and Expert Support (BAPETEN) and other relevant security agencies
- Budget allocation for maintenance of equipment

### **IAEA**

- Relocation of Belawan to be under Customs Inspection area for effective operations
- Retraining FLO at National Belawan

# Port of Bitung – North Sulawesi Island

- Installation completed in December 2014
- Training for operators will be conducted in March 2015



# *Port of Bitung – North Sulawesi Island*

## **Proposed Actions**

### **Indonesia**

- Enhancement of National arrangements to coordinate detection and response at borders between Front Line Officers (FLO) (Customs) and Expert Support (BAPETEN) and other relevant security agencies
- Budget allocation for maintenance of equipment

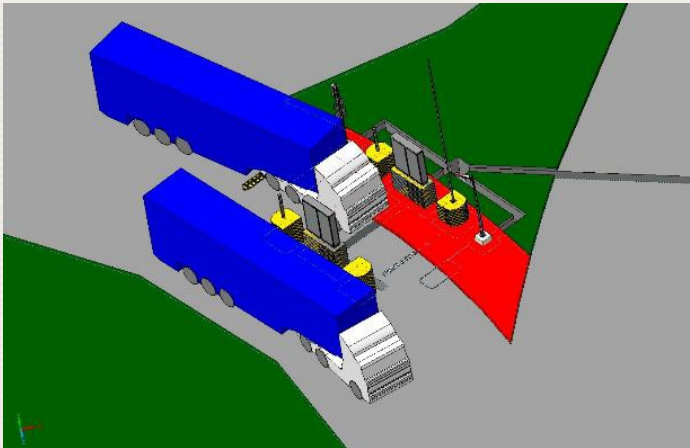
### **IAEA**

- Training of operators
- Training of FLO
- Table top exercise and Field Exercise



# *Port of Makassar – South Sulawesi Island*

- Civil work completed
- Installation and acceptance testing will be conducted in March 2015
- Training for operators will be conducted in March 2015



# ***Port of Makassar – South Sulawesi Island***

## **Proposed Actions**

### **Indonesia**

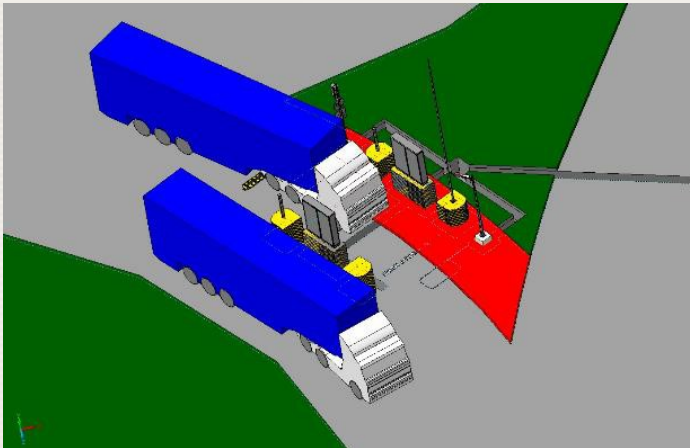
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### **IAEA**

- Training of operators
- Training of FLO
- Table top exercise and Field Exercise

# *Port of Makassar – South Sulawesi Island*

- Civil work completed
- Installation and acceptance testing will be conducted in March 2015
- Training for operators will be conducted in March 2015



# ***Port of Semarang – Central Java Island***

## ***Proposed Actions***

- Construction and civil work pending completion of Port expansion

## **Proposed Actions**

### **Indonesia**

- Update on Semarang Readiness
- Decision on the number of RPM

### **IAEA**

- Site confirmation
- Civil work and installation
- Training of operators
- Training of FLO
- Table top exercise and Field Exercise

# ***Port of Semarang – Central Java Island***

## **Proposed Actions**

### **Indonesia**

- Enhancement of National arrangements to coordinate detection and response at borders between Front Line Officers (FLO) (Customs) and Expert Support (BAPETEN) and other relevant security agencies
- Budget allocation for maintenance of equipment

### **IAEA**

- Training of operators
- Training of FLO
- Table top exercise and Field Exercise

# Distribution of handhelds Equipmnet

No.	Pelabuhan	Handheld Monitor	Total
1.	Terminal Internasional Feri Batam Centre, Batam.	PRD = 4 RID = 1	PRD = 33 RID = 11 NSD = 4
2.	Terminal Internasional Feri Sekupang, Batam.	PRD = 3 RID = 1	
3.	Terminal Internasional Feri Harbour Bay, Batam.	PRD = 3 RID = 1	
4.	Terminal Internasional Feri Marina, Batam.	PRD = 2 RID = 1	
5.	Pelabuhan Feri Domestik Sekupang, Batam.	PRD = 4 RID = 1	
6.	Pelabuhan Kargo Batu Ampar, Batam.	PRD = 2 RID = 1 NSD = 1	
7.	Pelabuhan Kargo Beton Sekupang, Batam.	PRD = 2 RID = 1 NSD = 1	
8.	Pelabuhan Curah Cair CPO Kabil, Batam.	PRD = 2 RID = 1	
9.	Pelabuhan Udara Hang Nadim, Batam.	PRD = 4 RID = 1	
10.	Pelabuhan Laut Tanjung Perak, Surabaya.	PRD = 3 RID = 1 NSD = 1	
11.	Pelabuhan Laut Tanjung Priok, Jakarta.	PRD = 4 RID = 1 NSD = 1	



Personal  
Radiation  
Detector  
(PRD)



Radionuclide  
Identification  
Device (RID)



Neutron Search  
Detector (NSD)



# Sustainability Assurance

- Maintenance plan
  - Roles for maintenance
  - Budget and resources
  - Integration with other RPM installations
  - Availability of local experts

*IAEA Key Reference documents:* Technical and Functional Specifications for Border Monitoring Equipment, Nuclear Forensics Support, Nuclear Security Culture, Security in the Transport of Radioactive Material, Development, Use and Maintenance of the Design Basis Threat, Security of Radioactive Sources,



# HUMAN CAPITAL DVELOPMENT

# Border Monitor Training

- 1 RPM configuration and maintenance training conducted February/March 2012 at Yafi in St Petersburg, Russia (4 participants responsible for configuration and maintenance)
  - *Further supporting maintenance plan for Indonesia*
    - *Includes potential integration and collaboration for other RPM installed under different initiatives*
  - *Capable to present similar training in Indonesia*
  - *Acquire capability to perform configuration and maintenance of RPM*
  - *Establish relevant training materials for national use*
- 1 MEST training (fully conducted by Indonesian expert 2013)
- 1 Field exercise FLO/MEST in Q4, 2015

# **PROPOSED 2016 onwards PROJECT DEVELOPMENT**

# NEW INSTALLATION & UPGRADES

2016 onwards

- Relocation of Belawan
- Completion of Semarang
- Training equipment under ICONCEPT
  - Training RPM
  - Handhelds Equipment
  - CAS Simulator Software
- Installation of RPM for Cirebon Port (Bulk Cargo)
- Installation of RPM, Ngurah Rai International Airport, Denpasar
- Mobile Detection Capability for Batam Island
- Invitation as Indonesian Expert to support regional activity



# TERIMA KASIH

