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# Overview of the EU CBRN Centres of Excellence Initiative

Dr. Margarida Goulart  
European Commission Joint Research Centre  
ARF Workshop on CBRN risk mitigation  
Manila, 9-10 September 2015





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# CBRN CoE Initiative



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Mitigation of and preparedness against risks related to CBRN material and agents



Comprehensive approach  
(Risks: criminal, accidental, natural)





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## The CoE Initiative: a CBRN regional based network

- **Legal basis:** Instrument for Stability 2007-2013 (IfS) , now Instrument contributing to Stability and Peace 2014-2020 (IcSP).
- **Aim:** CBRN risk mitigation, on a national and regional basis. Mirroring effect (EU CBRN Action Plan).





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# Objectives

To create a framework for **cooperation** and **coordination** at national, regional and international level.



To facilitate **cooperation** in order to enhance **CBRN policies** and **capabilities**.

## HOW? Network + tools







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# NETWORK



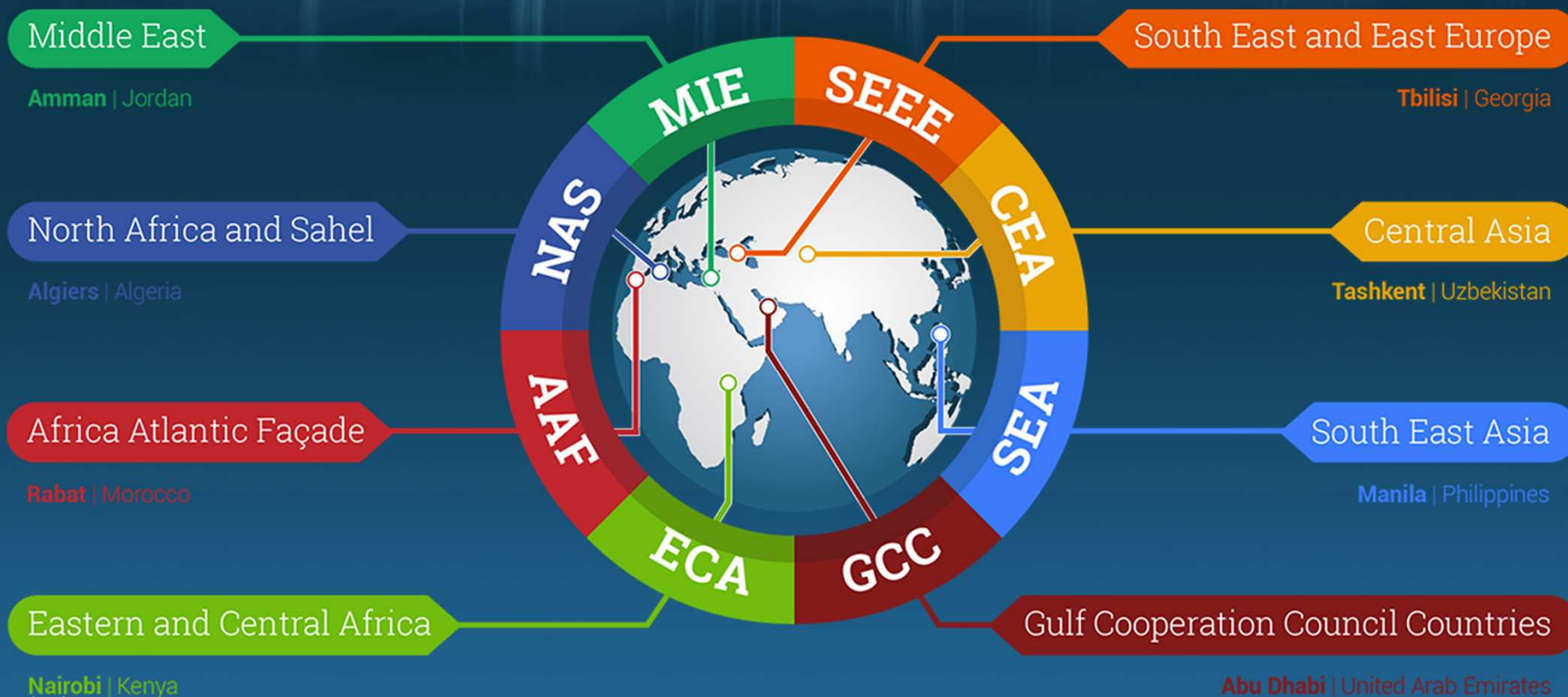


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# Regional Secretariats



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# 52 Partner Countries

- Iraq
- Jordan
- Lebanon

- Albania
- Armenia
- Bosnia and Herzegovina
- FYR of Macedonia
- Georgia
- Moldova
- Montenegro
- Serbia
- Ukraine

- Benin
- Côte d'Ivoire
- Gabon
- Liberia
- Morocco
- Mauritania
- Senegal
- Togo

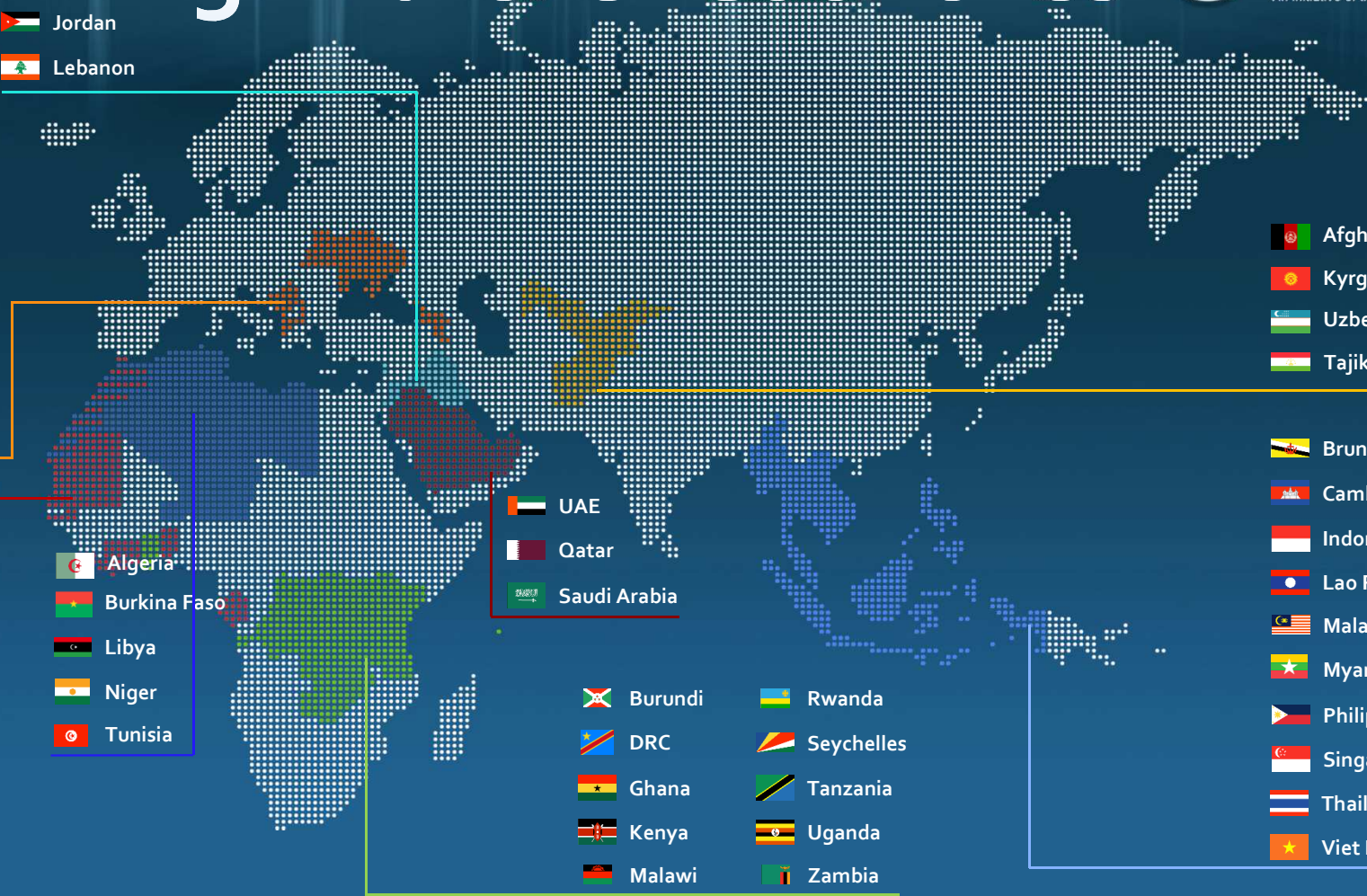
- Algeria
- Burkina Faso
- Libya
- Niger
- Tunisia

- UAE
- Qatar
- Saudi Arabia

- Burundi
- DRC
- Ghana
- Kenya
- Malawi
- Rwanda
- Seychelles
- Tanzania
- Uganda
- Zambia

- Afghanistan
- Kyrgyzstan
- Uzbekistan
- Tajikistan

- Brunei Darussalam
- Cambodia
- Indonesia
- Lao PDR
- Malaysia
- Myanmar
- Philippines
- Singapore
- Thailand
- Viet Nam







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# Potential Partner Countries



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Azerbaijan

Bahrain

Cameroon

Cape verde

Egypt

Equatorial

Guinea

Ethiopia

Gambia

Guinea

Kazakhstan

Kuwait



Madagascar

Mocambique

Mali

Mongolia

Nigeria

Oman

Pakistan

Sierra Leone

South Sudan

Syria

Turkey

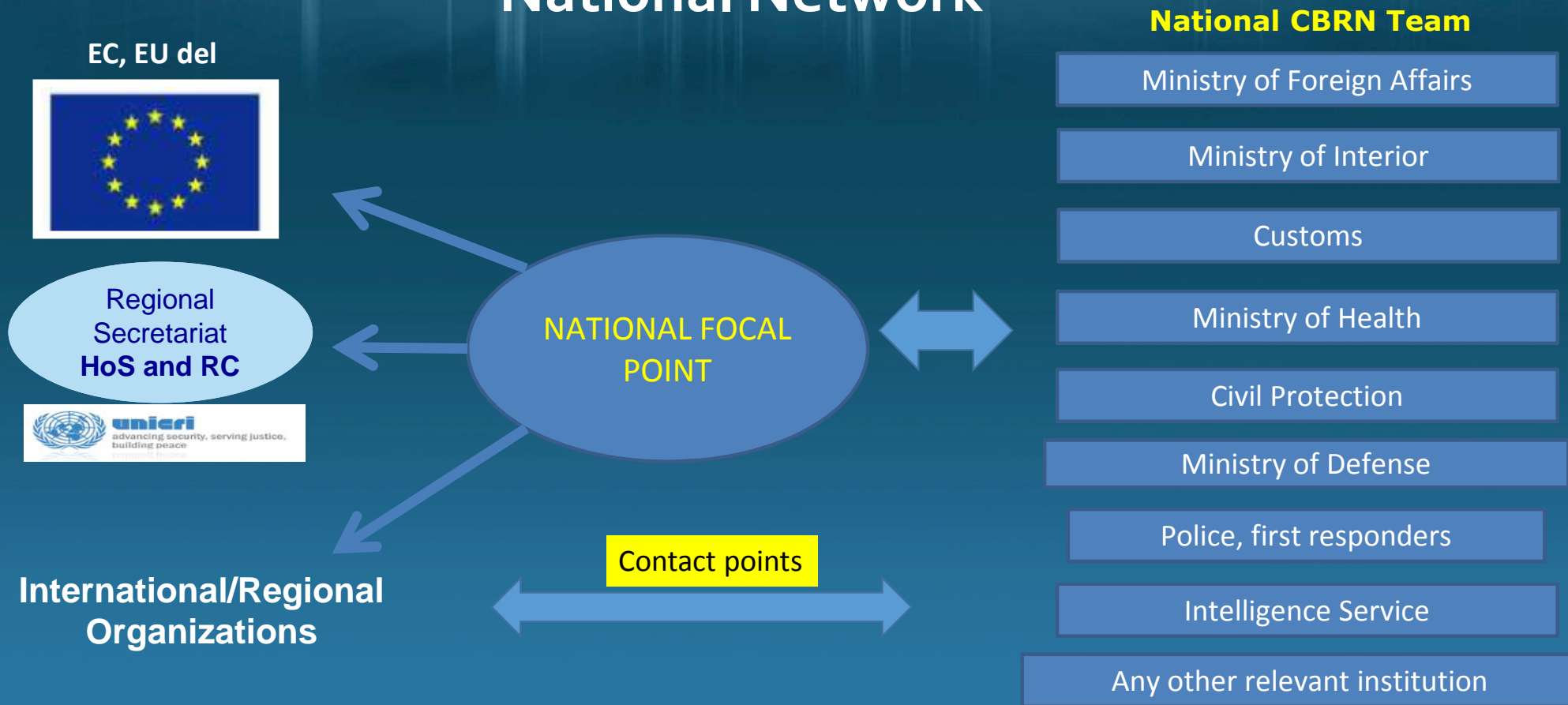
Turkmenistan

Yemen





# National Network





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## Roles

### National Focal Point

In charge of

- coordination with the National CBRN Team
- coordination with the CoE counterparts

### National CBRN Team

In charge of

- assessing needs
- drafting project proposals
- facilitating implementation of projects
- developing a CBRN National Action Plan





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# Tools







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# Needs Assessment Questionnaire



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## NEEDS ASSESSMENT Questionnaire

### Section 1. Legislation and Regulations

List of identified institutions:  
This list is non-exhaustive and will depend on the government of each country

- Ministry of Foreign Affairs
- Ministry of Defence
- Ministry of Interior
- Ministry of Justice
- Ministry of Health
- Ministry of Agriculture or Animal Care
- Ministry of Industry
- Ministry of Energy
- Ministry of Economy
- First Responders
- Emergency Medical Services
- Fire Brigade Services
- Crisis Center
- Police/Gendarmerie
- Customs/Border Officers

Specific and more developed guidelines are available in an attached document.

PLEASE PROVIDE YOUR DATA:

Institution(s):

Name(s):

Job Function/Role:

E-mail:

Country:

Date:



### Section 1. Legislation and Regulations

Q1.1: Does your country have national legislation in place for Chemical substances with respect to:

	Yes	No	Don't know	Additional info/evidence
1.1.1) Licensing/national register of users?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>
1.1.2) Transport of dangerous goods?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>
1.1.3) Acquisition/sales of dangerous goods?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>
1.1.4) Import/export control?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>
1.1.5) Border control?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>
1.1.6) Customs control?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>
1.1.7) Material control?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>
1.1.8) Facility protection?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>
1.1.9) Crisis management?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>
1.1.10) Civil protection/civil defence?	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>

If yes, please provide the names/references of the laws/regulations related to Chemical substances

➤ User friendly, modular, interactive pdf forms

- Voluntary, confidential (data belongs to partner countries)
- Basis to prepare National Action Plans
- 300 closed form questions
- 'Yes', 'No', 'Don't know' response + extra info

Q1.6: Do you have sufficient means to enforce compliance with national laws and regulations?

Yes	No	Don't know	Additional info/evidence
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>

Q1.7: Do you employ non-binding international guidelines/recommendations or other codes of good conduct?

Yes	No	Don't know	Additional info/evidence
<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="text"/>



Justice



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# NATIONAL ACTION PLANS

- Based on NAQ, voluntary, confidential, with EC and UNICRI support
- Several countries have completed the NAP
- Several ongoing

**News**

**High-level Side Event at the Sixty-ninth Session of the United Nations General Assembly**  
The Government of Georgia presented the CBRN National Action Plans

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# Draft NAP generation



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## Completed NAQ-ST

## NAQ- DB (Database)

## Draft 'skeleton' NAP

Completed NAQ-ST form showing questions 5.3.1 to 5.3.5 regarding detection equipment for radiological and nuclear materials. The form includes response options (Yes, No, Don't know) and additional information fields. Red checkmarks indicate completed sections.

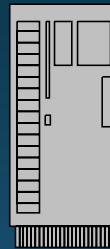
**Q5.3 Do you have detection equipment/methods for Radiological and Nuclear materials?**

	Yes	No	Don't know	Additional info/evidence
5.3.1) Physical protection gear and portable detection equipment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Portable equipment and PPE is available but only to the national response team and in limited numbers. Nothing exists for the fire services or medical.
5.3.2) For environmental protection?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The Environment Agency has radiisotope detection and identification equipment for in field measurement, sample collection and laboratory.
5.3.3) For border control?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Only the Main port is equipped with fixed radiation portals. No spectroscopic capability or specialised laboratories.
5.3.4) For customs control?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Only the Main port is equipped with fixed radiation portals. No spectroscopic capability or specialised laboratories.
5.3.5) For response measures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	The national response team from the Environment Agency has CBRM detection equipment.

Please provide any additional information related to Radiological and Nuclear material detection

The Main airport YYY has no RN detection equipment for passenger or freight transports. This is a major priority given the heightened risk of terrorist attack. The main port of XXX benefits from the second line of defense installation but suffers from a large false alarm rate.

Extract to form draft ACTIONS:



Draft 'skeleton' NAP table showing Action No., NAQ/Science, Domain, Action, Specific Tasks, Objectives, Lead and Support Agencies, Time Frame, and Priority.

Action No.	NAQ/Science	Domain	Action	Specific Tasks	Objectives	Lead and Support Agencies	Time Frame	Priority
Section 4: CBRN prevention measures								
4.1	4.1.1		Identify and list locations of CBRN facilities such as:					
4.1	4.1.1D	C	Gas storage					
4.2	4.2		Establish a registry/inventory of Chemical materials including:					
4.2	4.2.1	C	Classification (e.g. GH5, GAS, etc.)					
4.2	4.2.2	C	Quantities					
4.4	4.2.3	C	Locations					
4.5	4.2.4	C	Establish a methodology to update the registry regularly					
4.6	4.6		Conduct threat identification and risk assessments for security arrangements (e.g. physical protection, inventory control) for the following high risk industrial installations:					
4.6	4.6.1	C	Chemical industry					
4.7	4.6.2	C	Fertiliser industry					
4.8	4.6.3	B	Bio-laboratories					
4.9	4.6.4	RM	Nuclear industry					
4.10	4.6.5	RM	Location of RN facilities					
4.11	4.6.6	C	One mines					
4.12	4.6.7	CBRN	Others					

Tajikistan - National Action Plan (NAP) Formulation

## 2-3 workshops supported in the Partner Country to develop the detailed NAP







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# Regional PROJECTS

- **50** CoE projects contracted
  - training, capacity building, best practices, legislation assessment,
  - minimum equipment, no research
- Regional, duration up to **4 years** (1y inception + 2/3y implementation)
- **Enhanced ownership**
- **Continuous monitoring and evaluation** (mid-term, final, ex-post)



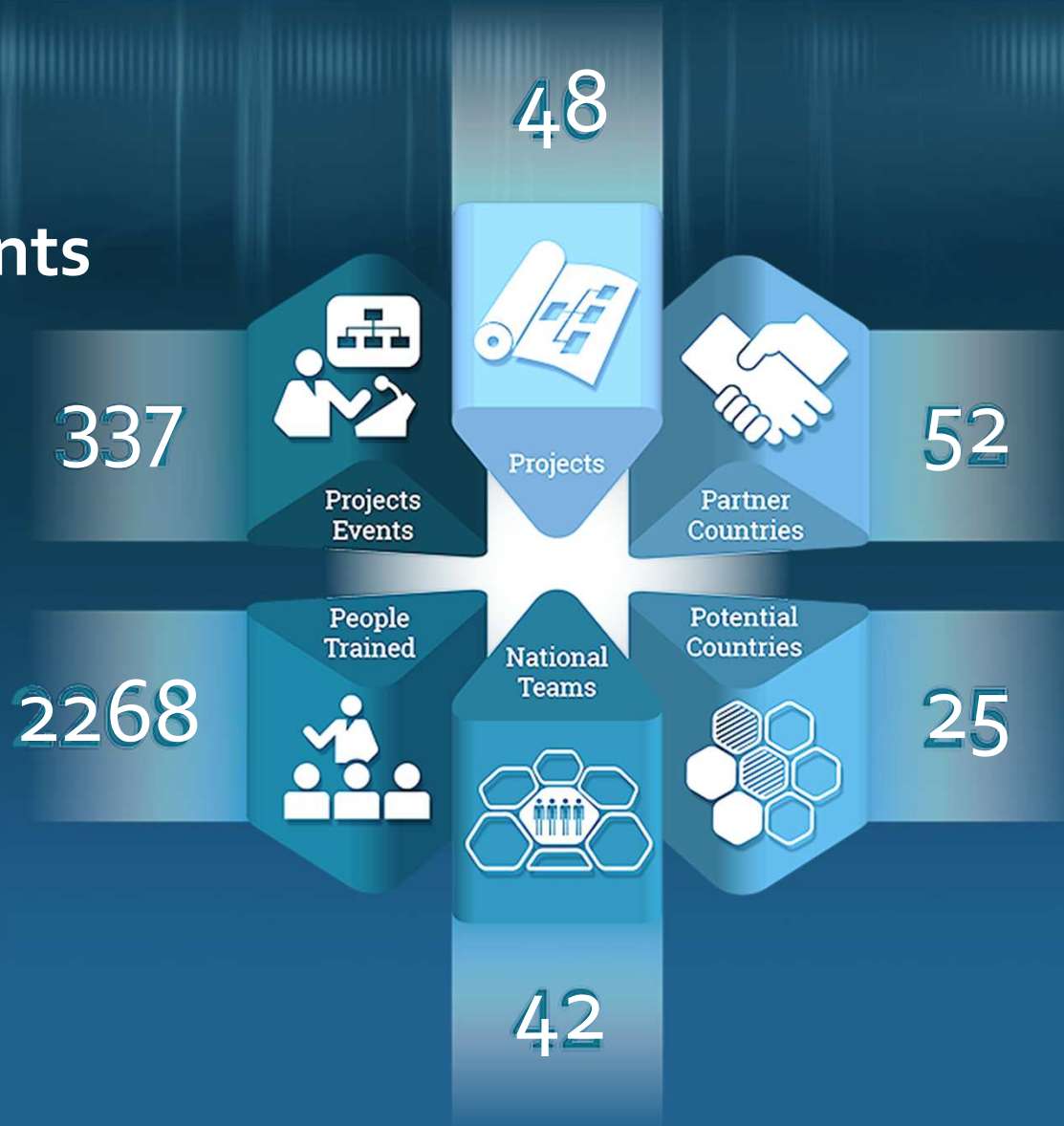


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# Achievements





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## Way forward

- Consolidate the CoE structure;
- Support and reinforce the role of NPFs and their National Teams;
- Complete NAQs and continue to develop NAPs;
- Enhance coherency and sustainability of actions according to long term NAPs;
- Ensure optimal coordination with other National and International CBRN and similar activities.







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<http://www.cbrn-coe.eu/>



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# Integration with other thematic EU Instruments of cooperation

- INSC – Instrument of Nuclear Safety Cooperation
  - Evolution of the TACIS program (**Technical Assistance to the Commonwealth of Independent States** for Eastern Europe and Central Asia States)



# EU Nuclear Safety Cooperation 2007-2013





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## INSC 2014-2020 strategy

Promotion of an  
effective nuclear safety  
culture

**50%**

Responsible and safe  
management of spent  
fuel and radioactive  
waste

35%

Safeguards

10%

Budget: €225 million => 30 million per year

**First priority:** accession and neighbourhood countries.







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# Thank you for your attention

## Questions?



[margarida.goulart@ec.europa.eu](mailto:margarida.goulart@ec.europa.eu)





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# National Team





## National Focal Point

In charge of

- coordination among the National CBRN Team and stakeholders



## National CBRN Team

In charge of

- assessing needs
- drafting project proposals
- implementing projects
- developing a CBRN National Action Plan



# National CBRN Team



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## Also consider:

- Ministry of Science and Technology
- Ministry of Environment
- Ministry of Agriculture
- Ministry of Justice
- Ministry of Economy/Trade
- Ministry of Infrastructures
- CBRN agencies
- Universities, laboratories
- Civil society stakeholders

The CBRN National Team (NT) is one of the key elements for the successful development and implementation of a comprehensive and integrated national CBRN policy



Office of the President  
of the Philippines  
Malacañang

16 November 2012

SECRETARY ALBERT F. DEL ROSARIO  
Department of Foreign Affairs (DFA)  
2330 Roxas Blvd., Pasay City

DR. JONATHAN LUCAS  
Director, United Nations Interregional  
Crime and Justice Research Institute (UNICRI)  
Viale Maestri del Lavoro, 10  
10127 Turin, Italy

ATTENTION: MS. MARIA EUGENIA D. RETTORI  
Project Officer  
CBRN Risk Mitigation and Security Governance Programme

UNDERSECRETARY JOSE S. BRILLANTES  
Office of Special and Ocean Concerns

Sir/Madame,

Constituting the Chemical Biological Radiological Nuclear (CBRN) National Team,  
GPH are the following:

- |                                   |   |
|-----------------------------------|---|
| 1. Mr. Oscar F. Valenzuela        | Office of the President (OP)  |
| 2. Dr. Irma Makalinac             | Academe /   |
| 3. Dir. Gen. Arturo Caodac, Jr.   | Philippine Drug Enforcement Agency (PDEA)   |
| 4. Dr. Carmencita Banatin         | Department of Health (DOH)<br>Health Emergency Management Services (HEMS)                     |
| 5. Dr. Socorro Lupisan            | DOH<br>Research Institute for Tropical Medicine (RITM)  |
| 6. PCSUPT Noel de los Reyes       | Department of the Interior and Local Government (DILG)<br>Philippine National Police (PNP)    |
| 7. CINSR Reynold Salvador         | DILG<br>Bureau of Fire Protection (BFP)   |
| 8. Dr. Alumanda dela Rosa         | Department of Science and Technology (DOST)<br>Philippine Nuclear Research Institute (PNRI)   |
| 9. Prosec. Gen. Claro A. Arellano | Department of Justice (DOJ)   |
| 10. Usec. Jose S. Brillantes      | Department of Foreign Affairs (DFA)   |
| 11. Dir. Juan Miguel T. Cuna      | Department of Environment and Natural Resources (DENR)<br>Environment Management Bureau (EMB) |

- |                                 |  |
|---------------------------------|--|
| 12. Usec. Pio Lorenzo F. Batino | Department of National Defense (DND)   |
| 13. Dep. Comm. Peter M. Manzano | Department of Finance (DOF)<br>Bureau of Customs (BOC)                           |
| 14. Dir. Norlito R. Gicana      | Department of Agriculture (DA)<br>Fertilizer and Pesticide Authority (FPA)       |
| 15. Dir. Cresencio              | DA<br>Bureau of Animal Industry (BAI)<br>National Meat Inspection Service (NMIS) |

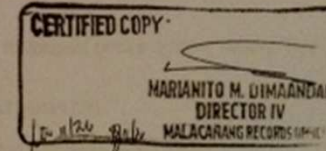
This is in support of the initiatives of the European Union (EU) and as implemented jointly by the United Nations Interregional Crime and Justice Research Institute (UNICRI) and European Commission's Joint Research Centre.

Thank you.

Very truly yours,

PAQUITO N. OCHOA, JR.  
Executive Secretary

Cc: Anti-Terrorism Council – Program Management Center (ATC – PMC)





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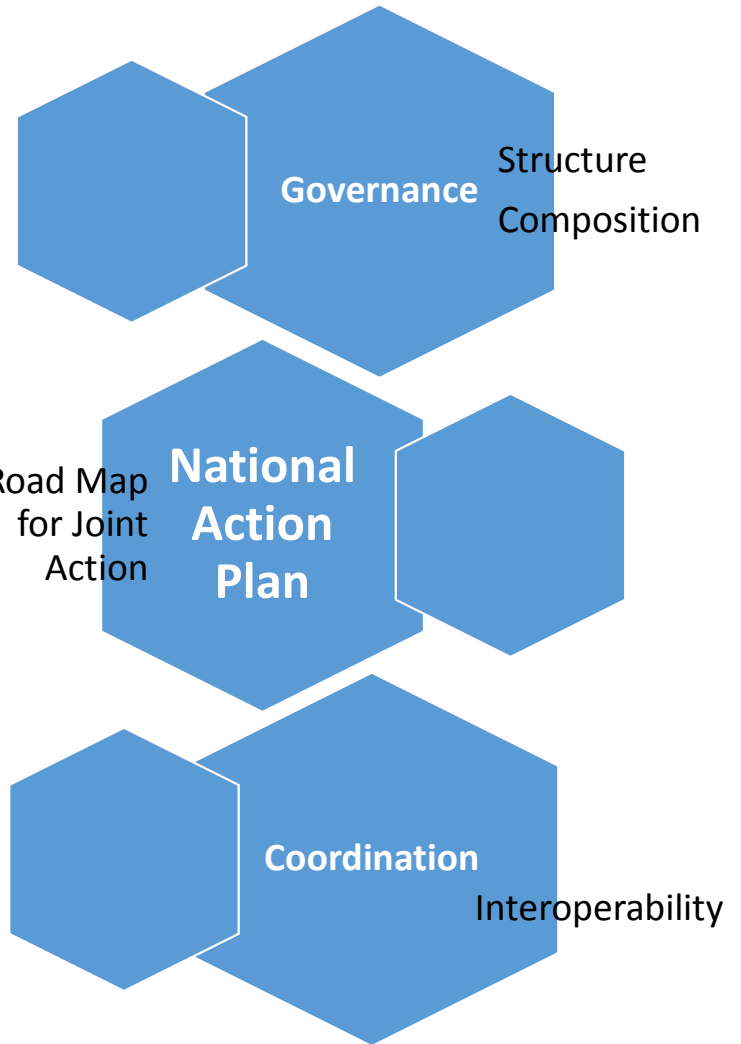
**CBRN CoE South East Asia  
Workshop  
CBRN Team of the Philippines  
REPORT**



**Malacañang Palace,  
Office of the President  
Manila, 16 February 2012**



EU CBRN Risk Mitigation Centres of Excellence project, launched in 2010, is an initiative of the European Union. It is implemented jointly by the European Commission's Joint Research Centre (JRC) and the United Nations International Crime and Justice Research Institute (UNICRI).



## What are some the benefits of CBRN National Team?

- **Better compliance with international obligations through a clear and organized information sharing mechanism**
- **Clear allocation of responsibilities among team members from the different institutions, avoiding duplication of efforts**
- **Improved inter-agency cooperation and co-ordination among the different institutions and stakeholders at the national level**
- **Optimization of the existing resources at the national level**
- **Identification and prioritization of gaps and needs**
- **Elaboration of a comprehensive CBRN strategy that takes into account issues and needs from the different perspectives of the various institutions that are represented in the National Team**



# Inter-agency cooperation



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## Philippine CBRN NT: a Work in Progress



TEMPLATE - VERSION (MAY 2013)







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# Priorities of CBRN National Action Plan





**Kingdom of Cambodia**



**NATIONAL CBRN ACTION PLAN  
(NAP)  
OF THE  
KINGDOM OF CAMBODIA**

**Philippines, 9-10 September 2015**

# The result: CAMBODIA NAP

## KINGDOM OF CAMBODIA National CBRN Action Plan



October 2014

*This National Action Plan has been prepared within the framework of the European Union CBRN Centres of Excellence initiative.*

### CONTENTS

#### Introduction

#### I. Current national institutional structure

#### II. Fulfillment of relevant international instruments

#### III. Assessment of CBRN threats and risks

- a. Chemical threats/risks
- b. Biological threats/risks
- c. Radiological and Nuclear threats/risks
- d. General or cross-cutting CBRN threats/risks

#### IV. Current capacities to mitigate CBRN threats and risks

- a. Prevention
- b. Detection
- c. Preparedness and response
- d. General capacities, including CBRN governance across the C-B-R-N fields

#### V. Proposed objectives to reinforce national CBRN capacity

- a. Prevention
- b. Detection
- c. Preparedness and response
- d. General actions, including CBRN governance across the C-B-R-N fields

#### VI. Practical information on proposed objectives/actions

## Capacity-building priorities (CHEMICAL)

### *Prevention*

- Strengthen enforcement of legislation on control of chemical substances, such as pesticides and fertilizers
- Develop priority list and registry of chemical materials
- Enhance food chain safety and control
- Strengthen procedures related to regulating chemical materials

### *Detection*

- Improve the capacity of competent authorities to detect CB events (besides communicable diseases), including supply of equipment
- Enhance capacity of competent authorities to detect chemical materials at border

### *Preparedness & response*

- Enhance response capacity for all types of chemical events, including response plans, training/human resources and equipment

## Capacity-building priorities (BIOLOGICAL)

### *Prevention*

- Develop/enhance biological waste management, including transport and incineration
- Develop a priority list (including criteria) and registry of high-risk bio-agents
- Develop regulations for transport of biological agents, including reference samples
- Training to more fully understand risks posed by biological materials contamination
- Establish BWC national contact point

### *Detection*

- Strengthen laboratory and research capacity to identify source of disease outbreak in a timely manner

### *Preparedness & response*

- Enhance response capacity for all types of biological events, including response plans, training and equipment
- Develop SOPs for first responders and all stakeholders involved in bio response, including reporting to national level



## Capacity-building priorities (RADIO-NUCLEAR)

### *Prevention*

- Strengthen regulatory regime on radioactive sources by completing relevant legislation and ensuring regulatory authority operates according to international standards
- Ensure the registry of radioactive sources is up-to-date
- Enhance mechanisms for disposal of radioactive sources including building a national repository for spent sources
- Complete the legal/regulatory framework for waste management to explicitly include radioactive waste

### *Detection*

- Enhance detection capabilities at borders, including the installation of RPMs
- Improve detection capabilities of law enforcement and other units involved in interdiction of illicit trafficking
- Improve detection capabilities at disposal sites

### *Preparedness & response*

- Enhance response capacity for all types of RN events, including response plans, training and equipment

## Capacity-building priorities (CROSS-CUTTING)

1. Enhance capability of CBRE Unit and develop the CBRN Expert Team (training and equipment) in line with relevant agencies
2. Strengthen the National CBRN Team
3. Perform awareness-raising and education (starting with schools) on different aspects of CBR substances (including for public and businesses)
4. Develop technical capacity and guidelines including provision of adequate and proper equipment
5. Strengthen legislation on improper disposal of CBRN waste

# REPUBLIC OF THE UNION OF MYANMAR

## National CBRN Action Plan



Draft version – Updated March 2015

*This National Action Plan has been prepared within the framework of the European Union CBRN Centres of Excellence Initiative.*

### CONTENTS

Introduction.....	1
I. Current national institutional structure.....	2
II. Participation in relevant international instruments.....	3
III. Assessment of CBRN threats and risks affecting Myanmar.....	5
a. Chemical threats/risks.....	
b. Biological threats/risks.....	
c. Radiological and Nuclear threats/risks.....	
IV. Analysis of current capacities to mitigate CBRN threats and risks.....	
a. Prevention.....	
b. Detection.....	
c. Preparedness and response.....	
d. General capacities, including CBRN governance across the C-B-R-N fields.....	
V. Proposed objectives to reinforce national CBRN capacity.....	
a. Prevention.....	
b. Detection.....	
c. Preparedness and response.....	
d. General objectives, including CBRN governance across the C-B-R-N fields.....	
VI. Table of practical information on proposed objectives/actions.....	

Myanmar  
National CBRN Action Plan



Draft National Action Plan

*This National Action Plan has been prepared within the framework of the European Union CBRN Centres of Excellence Initiative.*

## Draft the NAP

### CONTENTS

#### Introduction

- I. Current national institutional structure
- II. Fulfillment of relevant international instruments
- III. Assessment of CBRN threats and risks affecting the Philippines
  - a. Chemical threats/risks
  - b. Biological threats/risks
  - c. Radiological and Nuclear threats/risks
  - d. General or cross-cutting CBRN threats/risks
- IV. Current capacities to mitigate threats and risks
  - a. Prevention
  - b. Detection
  - c. Preparedness and response
  - d. General capacities, including CBRN governance across the C-B-R-N fields
- V. Proposed steps to reinforce national CBRN capacity
  - a. Prevention
  - b. Detection
  - c. Preparedness and response
  - d. General actions, including CBRN governance across the C-B-R-N fields
- VI. Practical information on proposed steps

Draft  
The NAP

Second  
workshop

UNICRI  
mission

Finalize  
The NAP



## Proposed Objectives

	Prevention
1	Enhance national capacity for chemical risk assessment and risk mitigation (accidental and criminal)
2	Develop SOPs for transportation, storage, handling and waste management of hazardous chemicals
3	Strengthen public awareness on basic chemical knowledge and risks
4	Develop and disseminate SOPs on biosafety and biosecurity
5	Enhance healthcare waste management
6	Finalize the preparation and promulgation of the new Nuclear Law for Safety and Security and Safeguards
7	Strengthen the regulatory system and establish an independent regulatory authority
8	Sign and ratify relevant international legal instruments linked to assistance, response, emergencies, accidents and terrorism related to radiation
9	Training and awareness-raising programs on RN risks and protective actions for:

## Proposed Objectives

	<b>Preparedness and response</b>
<b>1</b>	<b>Provide chemical response plans/ procedures, equipment (e.g. PPE, decontamination) and training for first responders</b>
<b>2</b>	<b>Enhance training and equipment for first responders</b>
<b>3</b>	<b>Enhance post-incident investigative capabilities e.g. nuclear forensics</b>
<b>4</b>	<b>Provide relevant training, notably on RN decontamination</b>

## **General objectives/actions, including CBRN governance**

- 1 Develop National Inter-agency Emergency Response Plan (incorporating CBRN aspects), including clear chain of command**
- 2 Develop, strengthen and harmonize national CBRN legal/ regulatory framework and regulatory structures**



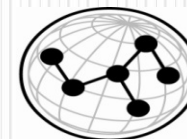
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# Experience with projects



Viji Vijayan  
Assistant Dean  
Safety, Health and Emergency  
Management  
Duke-NUS Graduate Medical School





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## ASEAN Regional Forum: "Raising awareness and promoting ARF cooperation on CBRN risk mitigation"

How did CBRN CoE projects help to raise awareness on CBRN risk mitigation in Lao PDR?

**9-10 September 2015, Manila , The Philippines**

## Involvement in EU CBRN CoE Initiative

- Stakeholder meeting in Vientiane on 30 September 2010:
  - Survey for CBRN Needs Identification
  - Survey of CBRN Risk Mitigation Capabilities
- Organized several Workshops in the country
- Attended 1<sup>st</sup>, 2<sup>nd</sup>, 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> CBRN CoE National Focal Point Round-Table Meeting



# CBRN Projects Implementation

- **2013-14: Involved in 16 CBRN projects (03, 06, 07, 08, 10, 11, 12, 18, 19, 21, 22, 27, 28, 29, 30, 31)**
  - Regional : 12 projects
  - International: 4 projects

## Projects of the EU CBRN CoE Risk Mitigation Initiative with at least one component in South-East Asia

Project Number	Project Title	Implementing Partner	Geographical Scope (as approved by European Commission)	Participating Countries in SEA (as evolved during the implementation phase)	Budget (EUR)	Start Date	End Date	Contract number
Pilot Project 01	Pilot regional project in South East Asia for capacity building in countering illicit nuclear trafficking in the frame of the Centre of Excellence Initiative	JRC - Joint Research Center	South East Asia	Cambodia, Indonesia, Malaysia, Philippines, Singapore, Thailand, Viet Nam	€ 375,000	12/10/2010	6/9/2012	IFS/2010/253-483
Pilot Project 02	Sharing experience between EU and South East Asian countries on the reinforcement of legislations and regulations in the field of bio-safety and biosecurity, as well as relevant laboratories management systems through Regional Centres of Excellence (Phase 1, Phase 2 was envisaged by Project 12)	Sacco - Clinical Microbiology L Sacco University Hospital Milan, Italy	South East Asia	Indonesia, Malaysia, Philippines, Thailand (Attended some meetings - back to back - but did not engage in the project; Brunei, Cambodia, Lao PDR, Myanmar, Singapore, Viet Nam)	€ 375,000	1/1/2011	12/30/2012	IFS/2010/253-485
Project 03	Knowledge development and transfer of best practice on bio-safety/bio-security/bio-risk management	ICIS - University of Insubria, Insubria Center on International Security, Italy	South East Asia, South East Europe, Southern Caucasus, Moldova and Ukraine, African Atlantic Façade, and North Africa	Brunei Darussalam, Cambodia, Lao PDR, Myanmar, Philippines, Singapore, Thailand, Viet Nam (Malaysia originally agreed to be part of the project but in mid 2013 suspended participation)	€ 1,920,000	1/1/2013	6/30/2015	IFS/2011/273-506
Project 04	Knowledge development and transfer of best practice on inter-agency CBRN response	NCTV - National Coordinator for Counterterrorism and Security, Netherlands	South East Asia, South East Europe, Southern Caucasus, Moldova and Ukraine	Cambodia, Myanmar, Philippines, Viet Nam (Brunei Darussalam and Singapore attended the final meeting as observers)	€ 950,675	1/1/2013	12/31/2014	IFS/2011/273-508
Project 05	Knowledge development and transfer of best practice on chemical and biological waste management	FORMIT Foundation - Fondazione per la ricerca sulla migrazione e l'integrazione delle tecnologie, Italy	South East Asia	Brunei Darussalam, Cambodia, Indonesia, Lao PDR, Myanmar, Philippines, Singapore, Thailand, Viet Nam	€ 480,000	1/1/2013	12/31/2014	IFS/2011/273-506
Project 07	Guidelines, procedures and standardisation on bio-safety/bio-security	FEI - France Expertise Internationale, France	Brunei Darussalam, Cambodia, Lao PDR, the Philippines, Thailand, Singapore, Viet Nam, FYR of Macedonia, Moldova and Serbia	Brunei Darussalam, Cambodia, Lao PDR, Philippines, Thailand (Singapore was not interested in the project, Viet Nam participated in one meeting)	€ 1,190,576	1/1/2013	3/31/2015	IFS/2011/273-506
Project 08	Prerequisite to strengthening CBRN national legal frameworks	VERTIC - Verification Research, Training and Information Centre, UK	Cambodia, Indonesia, Lao PDR, Malaysia and the Philippines	Cambodia, Lao PDR, Malaysia, Philippines (Indonesia was not interested in the project)	€ 800,000	1/1/2013	6/30/2015	IFS/2011/273-506
Project 10	Development of e-learning courses for CBRN risk mitigation	James Martin CNS - The President and Fellows of Middlebury College, the James Martin Center for Non-Proliferation Studies, USA	International	All countries will receive information and access to the e-learning	€ 390,806	1/1/2013	6/30/2015	IFS/2011/273-506
Project 11	Promoting good practice and inter-agency procedures for assessing the risks of chemical, biological, radiological and nuclear misuse	NCTV - National Coordinator for Counterterrorism and Security, Netherlands	Brunei Darussalam, Cambodia, Viet Nam, Lao PDR, Bosnia and Herzegovina, former Yugoslav Republic of Macedonia, Moldova, Montenegro, Serbia, Algeria, Morocco, Jordan	Brunei Darussalam, Cambodia, Lao PDR, Viet Nam	€ 1,915,452	1/1/2013	12/31/2014	IFS/2011/273-506
Project 12	Sharing experience between EU and South East Asian countries on the reinforcement of legislations and regulations in the field of bio-safety and bio-security, as well as relevant laboratories management systems through Regional Centres of Excellence - Phase 2	FEI - France Expertise Internationale, France	Brunei Darussalam, Cambodia, Lao PDR, Malaysia, Viet Nam	Cambodia, Lao PDR, Malaysia, Myanmar, Viet Nam (Brunei Darussalam was not interested in the project, Myanmar joined in lieu of Brunei Darussalam)	€ 319,841	4/1/2013	3/31/2015	IFS/2011/273-506
Project 15	Strengthening laboratory bio-safety and bio-security through development of a laboratory bio-bank system	RIVM - National Institute for Public Health and the Environment, Netherlands	Indonesia, Philippines, Thailand	Philippines, Thailand (Indonesia was not interested in the project)	€ 480,000	6/1/2013	6/30/2015	IFS/2011/273-506
Project 16	International network of universities and institutes for raising awareness on dual-use concerns in bio-technology	LNCV - Lancia Network-Centro Volta, Italy	International	All countries received access to the platform created for dissemination of materials. Final regional meeting attended by Cambodia, Lao PDR, Indonesia, Myanmar and the Philippines	€ 360,719	1/1/2013	12/31/2014	IFS/2011/273-506
Project 19	Development of procedures and guidelines to create and improve secure information management systems and data exchange mechanisms for CBRN material under regulatory control	PNWD - Battelle Memorial Institute, Pacific Northwest Division, USA	International	All countries received access to the materials and were invited to attend the final meeting	€ 400,000	3/1/2013	6/30/2015	IFS/2011/273-506
Project 21	Building Regional Border Control Capacity to Identify and Detect CRN Materials	JRC - Joint Research Center	African Atlantic Façade and South East Asia	Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand, Viet Nam	€ 700,000	12/21/2012	12/20/2016	IFS/2012/306-512

Project Number	Project Title	Implementing Partner	Geographical Scope (as approved by European Commission)	Participating Countries in SEA (as involved during the implementation phase)	Budget (EUR)	Start Date	End Date	Contract number
Project 22	Provision of Specialised Technical Training to Enhance the First Responder's Capabilities in case of CBRN incidents	FB - France Expertise Internationale, France	African Atlantic Facade and South East Asia	Cambodia, Lao PDR, Philippines	€ 699,274	12/17/2012	12/16/2014	IFS2012/301-327
Project 23	Building Capacity to Identify and Respond to Threats from Chemical, Biological, Radiological and Nuclear Substances	FIAP - Fundacion Internacional y para Iberoamerica de Administracion y Politicas Publicas, Spain	Algeria, Cambodia, Iraq, Moldova, Senegal and Tunisia	Cambodia	€ 499,100	12/10/2012	12/9/2014	IFS2012/301-740
Project 27	Bio-risk Management	FB - France Expertise Internationale, France	Lao PDR, Malaysia, Philippines and Thailand	Lao PDR, Thailand	€ 480,000	12/21/2012	8/30/2015	IFS2012/302-252
Project 28	Supporting Development of an Integrated National Security System for Nuclear and Radioactive Materials	JRC - Joint Research Center	South East Asia	Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Singapore, Thailand, Vietnam	€ 1,000,000	12/21/2012	12/23/2016	IFS2012/308-512
Project 29	Regional Human Resource Development for Nuclear Safety, Security and Safeguards Management through a University Master's Programme carried out in Thailand	ENCONET Consulting, Austria	South East Asia	Cambodia, Indonesia, Lao PDR, Malaysia, Myanmar, Philippines, Thailand, Vietnam	€ 649,812	12/21/2012	3/20/2016	IFS2012/302-214
Project 30	Network of Excellence for Nuclear Forensics in South East Asia Region	JRC - Joint Research Center	South East Asia	Lao PDR, Indonesia, Malaysia, Myanmar, Philippines, Singapore, Thailand, Viet Nam	€ 600,000	12/21/2012	12/20/2016	IFS2012/308-512
Project 31	Network of Universities and Institutes for Raising Awareness on Dual-Use Concerns of Chemical Materials	ENEA - Agenzia Nazionale per le Nuove Tecnologie - L'Energia e lo Sviluppo Economico Sostenibile, Italy	International	Cambodia, Indonesia, Lao PDR, Myanmar, Philippines, Thailand	€ 721,886	12/21/2012	4/20/2015	IFS2012/310-879
Project 46	Enhancement of CBRN capacities of South East Asia in addressing CBRN risk mitigation concerning CBRN first response, biosafety and biosecurity, awareness raising and legal framework	Selection on-going	South East Asia (regional scope to be determined by partner countries)					Selection on-going
Project 47	EU Outreach programme – Export Control Cooperation in South East Asia	Selection on-going	South East Asia (regional scope to be determined by partner countries)					Selection on-going



## **Organization involve in the project implementation:**

- 1) Ministry of Science and Technology
- 2) Ministry of Public Health
- 3) Ministry of Agriculture and Forestry
- 4) Ministry of Foreign Affairs
- 5) Ministry of Industry and Commerce
- 6) Ministry of Public Security
- 7) Ministry of National Defense
- 8) Ministry of Natural Resources and Environment
- 9) National University of Laos

# Achievements

- hosted more than 20 national meetings/workshops (more than 150 people)
- attended more than 30 international events,
- In early 2015, Lao PDR conducted the Needs Assessment Questionnaire and the first National Action Plan Workshop,
- Setting up a Working Group for NAP development,
- Developed the First Draft of NAP

# Results

- Improved the understanding on CBRN threats/risk and risk mitigation
- Improved the coordination of the inter governmental agencies → support from policy makers
- Identification of National Need → National Action Plan
- Development of some new national legislation such as Chemical Law, Bio Safety Law, Decree on Chemical hazardous substance, Decree on Radioactive and Nuclear Safety.
- Institutional arrangement : revision of role and mandate of some organization and setting up new divisions

Thank you for your attention



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