

# EPPM

## CCOP-Norway Program for Enhancing Public Petroleum Management in the CCOP Member Countries (EPPM)

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Programmes in East and Southeast Asia (CCOP)

# Contents

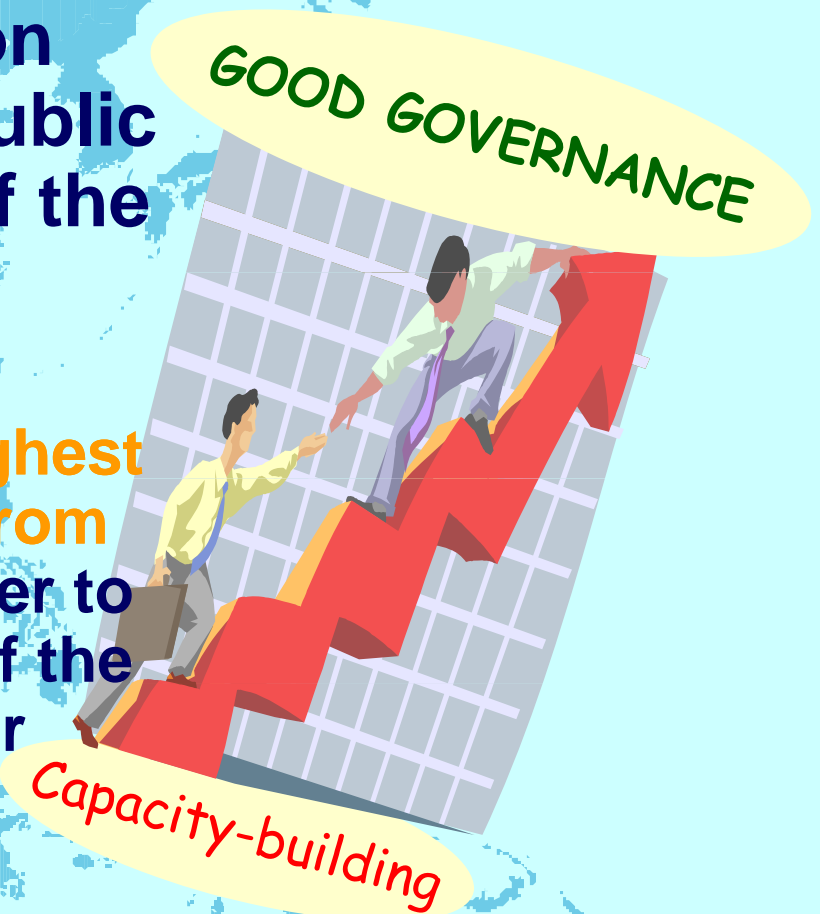
- ◆ EPPM program profile
- ◆ EPPM a learning journey – how this can be sustained?
- ◆ Lessons learned from past activities



# EPPM Program

- ◆ **CCOP-Norway Cooperation Program for Enhancing Public Petroleum Management of the CCOP Member Countries (EPPM)**

- The goal is to create the highest possible value for society from petroleum resources in order to improve the quality of life of the people in the CCOP Member Countries.



# EPPM Program

- ◆ Agreement between Norway & CCOP signed on 10 July 2008
- ◆ 4-year, July 2008- June 2012
- ◆ Budget: NOK15 Million
- ◆ Implementing agency: CCOP TS
- ◆ Cooperating agency: NPD & PETRAD



# EPPM Program

- ◆ **Preparation phase or Bridging period + 3 Projects**
  - **(P1) Petroleum Resource Management with focus on Natural Gas**
  - **(P2) Natural Gas Field Development and Environmental Issues**
  - **(P3) Metadata on Natural Gas Resources in the CCOP Region**
  - **FS on Networking of Petroleum Geoscience Institutions/Organizations**



# EPPM Program

## ◆ Output

- Trained and more knowledgeable professional staff in the MC
- Working Group and Expert Group formed
- Project Report
- Improved Natural gas database that is easily accessible
- Project website for information, reporting, knowledge sharing and preservation
- Networking and cooperation among MC is further strengthened



# **EPPM Strategic Focus**

- ◆ **Natural Gas development & Environmental issues**
- ◆ **Practice of Knowledge Management**



# P1- Petroleum Resource Management with focus on Natural Gas

- ◆ **Objectives:** To enhance the capability and capacity of MC in assessment of the undiscovered petroleum resources with focus on natural gas
- ◆ **Implementation thru cross-border case study**
  - Supported by 6 workshops, field works & trainings

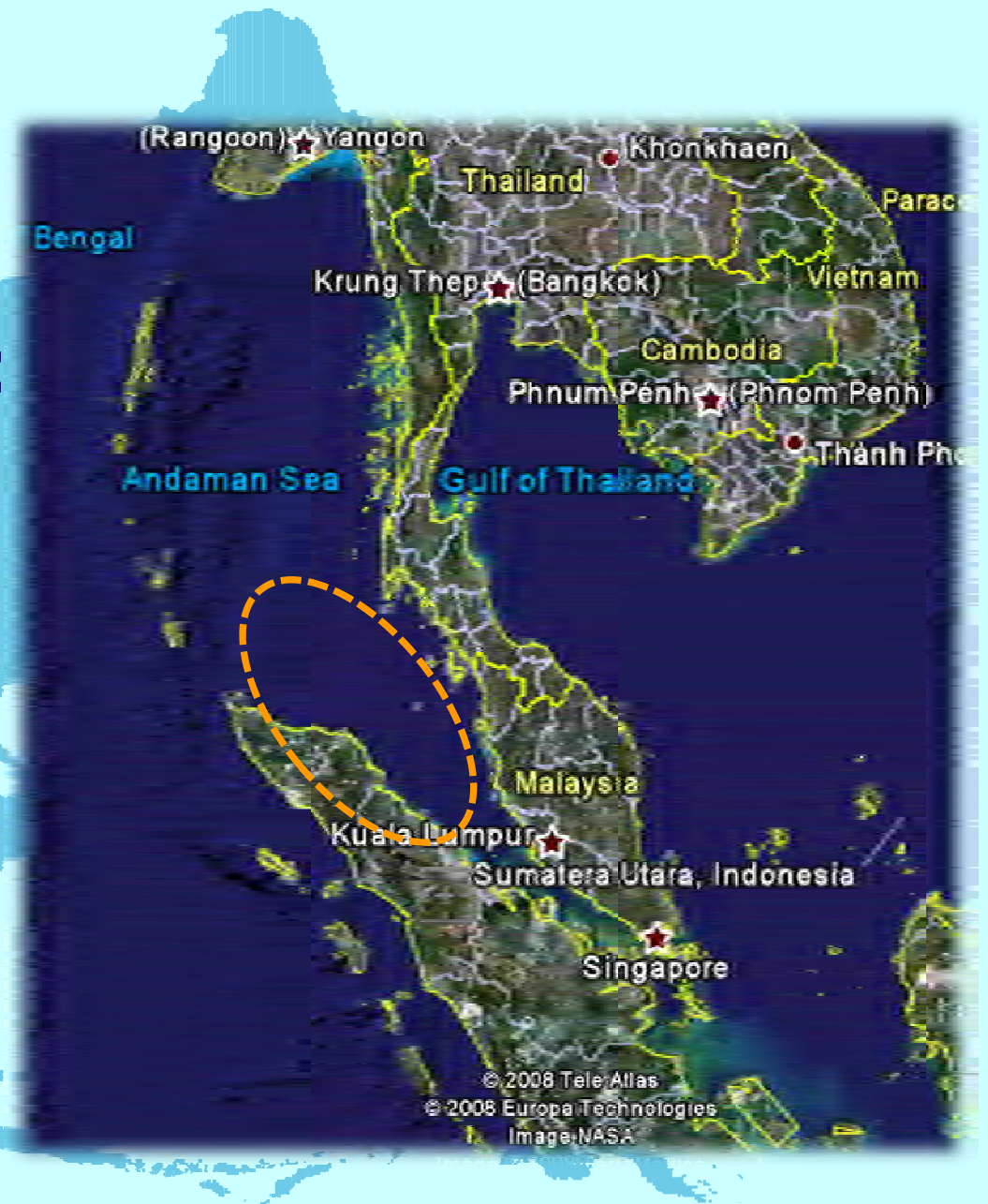




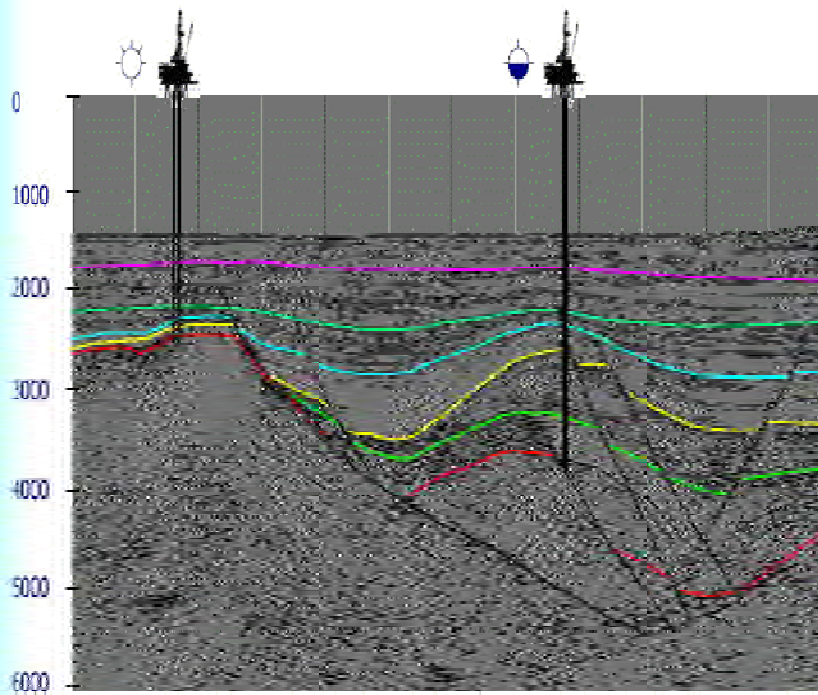
# P1

## ◆ Cross-border Case study area: Mergui-North Sumatra basin

- Shared my  
Thailand, Malaysia  
& Indonesia



Seismic Cross-Section of the Mergui Basin



Stratigraphy of the Mergui Basin

AGE	Relative Changes of sea level (EXXON 1979) + present sea level -	NORTH SUMATRA BASIN	MERGUI BASIN
Holocene			
Pleistocene		JULU RAYEU SEURULA	TAKUA PA
Pliocene	M L		
	E		
Miocene	L	KEUTAPANG	THALANG
	Σ	BAONG	TRANG
	E	PEUTU	SURIN
	E	ARUN BELUMAT	KANTANG
Oligocene	L	BAMPD	YALA RANGING
	M L		
	E	PAKAPAT	

~~~~~ major unconformity  
 - - - - - minor unconformity



## **P2 - Natural Gas Field Development and Environmental Issues**

- ◆ **Objectives:** To enhance the capacity and capability of MC in natural gas development and clean development mechanism & environmental issues
- ◆ **Implementation:** series of 6 workshops
  - China (SINOPEC) has offered their Puguang gas field for case study on challenges to gas production/development (CO<sub>2</sub> & H<sub>2</sub>S)



# **P2 - Natural Gas Field Development and Environmental Issues**

## **◆ Others topics**

- **CO<sub>2</sub>- alternative use, IOR & EOR technologies**
- **Gas hydrates**
- **Gas flaring**
- **Carbon capture & storage (CCS)**
  - **Potential in CCOP**
  - **CCS geological risks, appropriate technologies for assessment & monitoring**



# P3 - Metadata on Natural Gas Resources in the CCOP Region

- ◆ **Objectives:** To set up an easily accessible metadata on natural gas resources of the CCOP Countries for knowledge sharing & preservation on natural gas resource exploration, exploitation and environmental impact mitigation



# **P3 - Metadata on Natural Gas Resources in the CCOP Region**

## **◆ Implementation**

### **- Series of workshops on**

- ☞ Requirements Analysis, metadata contents & definitions referring to international standard(s)**
- ☞ Database structure design & software development**
- ☞ Developing capacities for software usage**
- ☞ Population & validation of data base**

## **◆ Will collaborate with existing metadata work group in CCOP**



# **EPPM -building from Lessons Learned from past activities**

- ◆ **Case Study** – is a good facility for capacity building but is easily affected by external factors outside the control of Project management, among others
  - Use of national data
  - Availability of appropriate personnel to continuously participate in the study
  - Continuous support of the management
  - Cooperation of participating agencies within the Country
  - Reorganization within the participating agency





# Building on Lessons Learned

- ◆ **Workshops** supporting the case studies provided a good forum to learn from experiences from the resource persons and especially from the practices of the Member Countries





# Building on Lessons Learned

- ◆ **Expert visits** not only accomplished learning from the experts but also enhanced the cooperation of Member Countries, in a way facilitated - **one Member Country helping another Member Country**



# Lessons Learned

## ◆ PPM Website

- a good facility for storage of information, reporting, and communication
- New & upgraded web is currently under development
  - ☞ More interactive with a discussion forum capability
  - ☞ Create a meaningful search facility on the site so that users can get relevant documents from the online library





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a member of the  
**Coordinating Committee for Geoscience  
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# EPPM Program – coordination setup



- 
- ◆ ***“It is not about working harder but working smarter....people can’t be efficient, machine can...but people can be effective”*** *Roxar Solutions*





# THANK YOU!

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