



EPPM Program Update

Simplicio P. Caluyong

EPPM Program Coordinator

15-Sep 2009, Chengdu, China



**Coordinating Committee for Geoscience
Programmes in East and Southeast Asia (CCOP)**

Contents

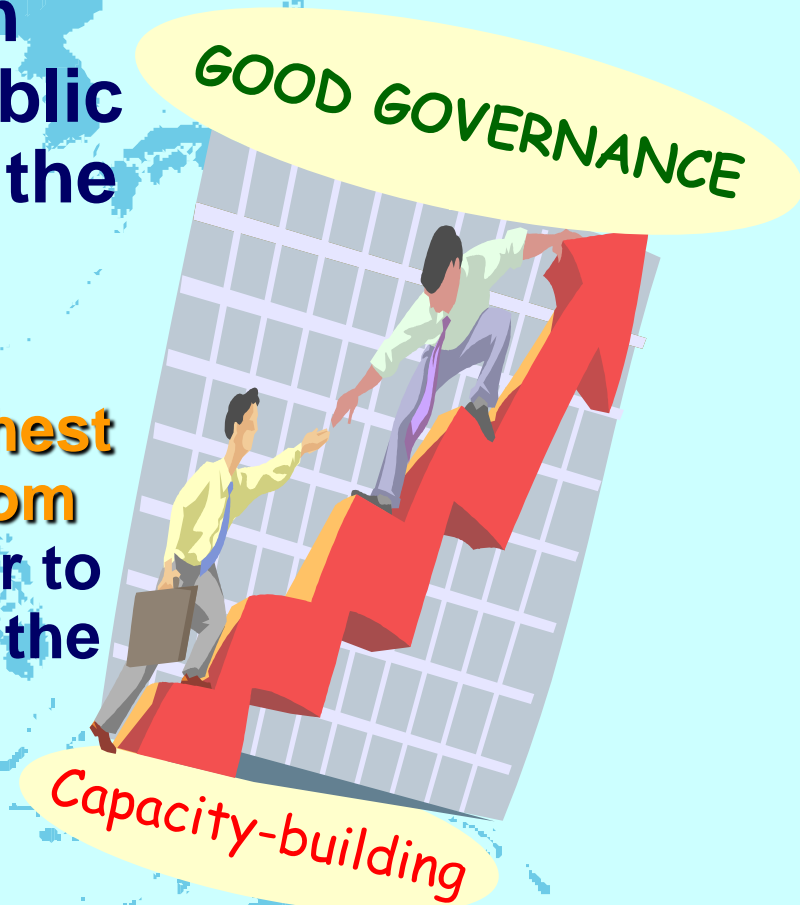
- ◆ EPPM program profile
- ◆ Technical projects - a learning journey
- ◆ What we have accomplished so far - since Aug 2008
- ◆ Proj 2 Workshop 2 (P2W2)
 - Objectives & workshop contents



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
- ◆ Beneficiaries: CCOP Member Countries



EPPM Program

◆ 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**



EPPM Program

◆ Outputs

- 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: **North Sumatra – Mergui basin**

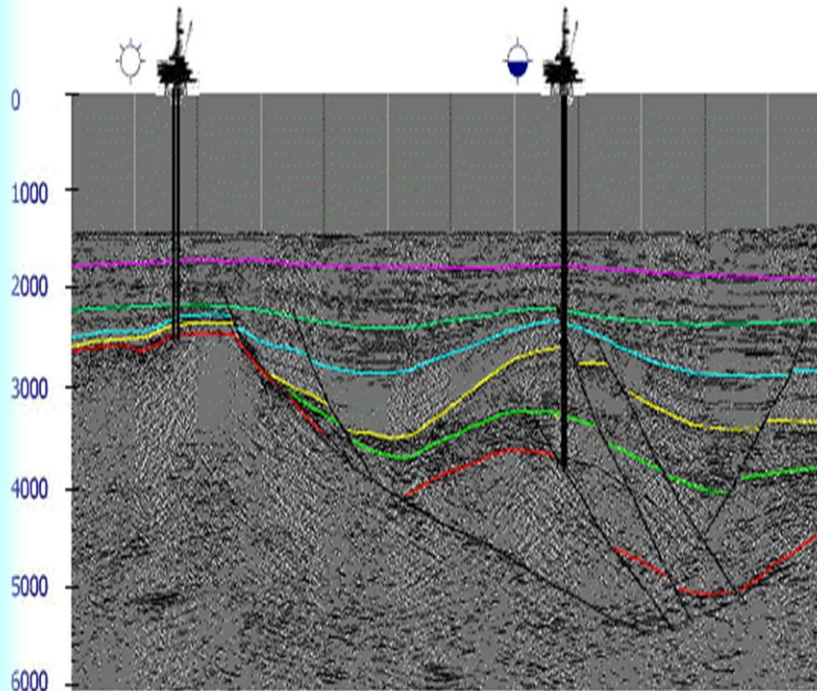
- Shared by Thailand,
Malaysia &
Indonesia



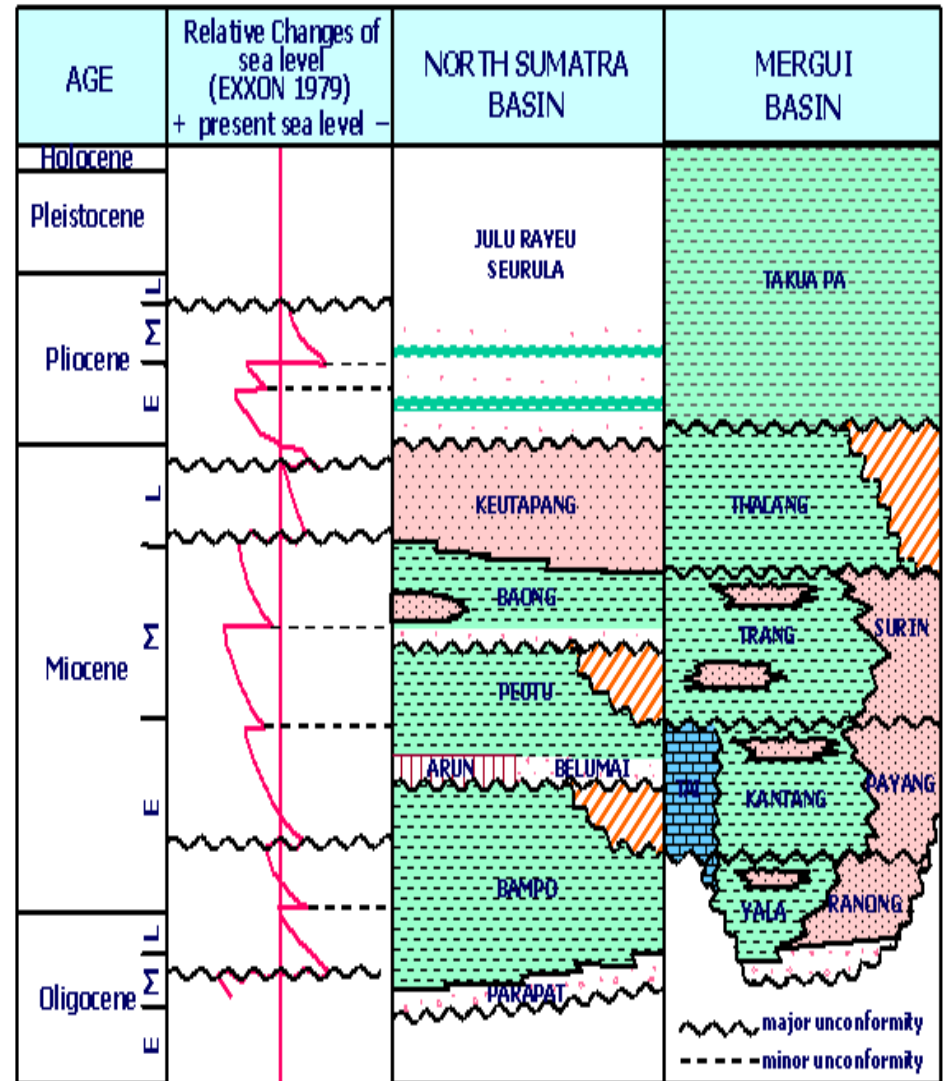
© 2008 Tele Atlas
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Image: NASA



Seismic Cross-Section of the Mergui Basin



Stratigraphy of the Mergui Basin



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



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 (CO₂ / H₂S & HP /HT)



P2 -Natural Gas Field Development and Environmental Issues

◆ Others topics

- **CO2- alternative use, IOR & EOR technologies**
- **Gas hydrates**
- **Gas flaring & Clean development mechanism**
- **Carbon capture & storage (CCS)**
 - **Potential in CCOP**
 - **CCS geological risks, appropriate technologies for assessment & monitoring**

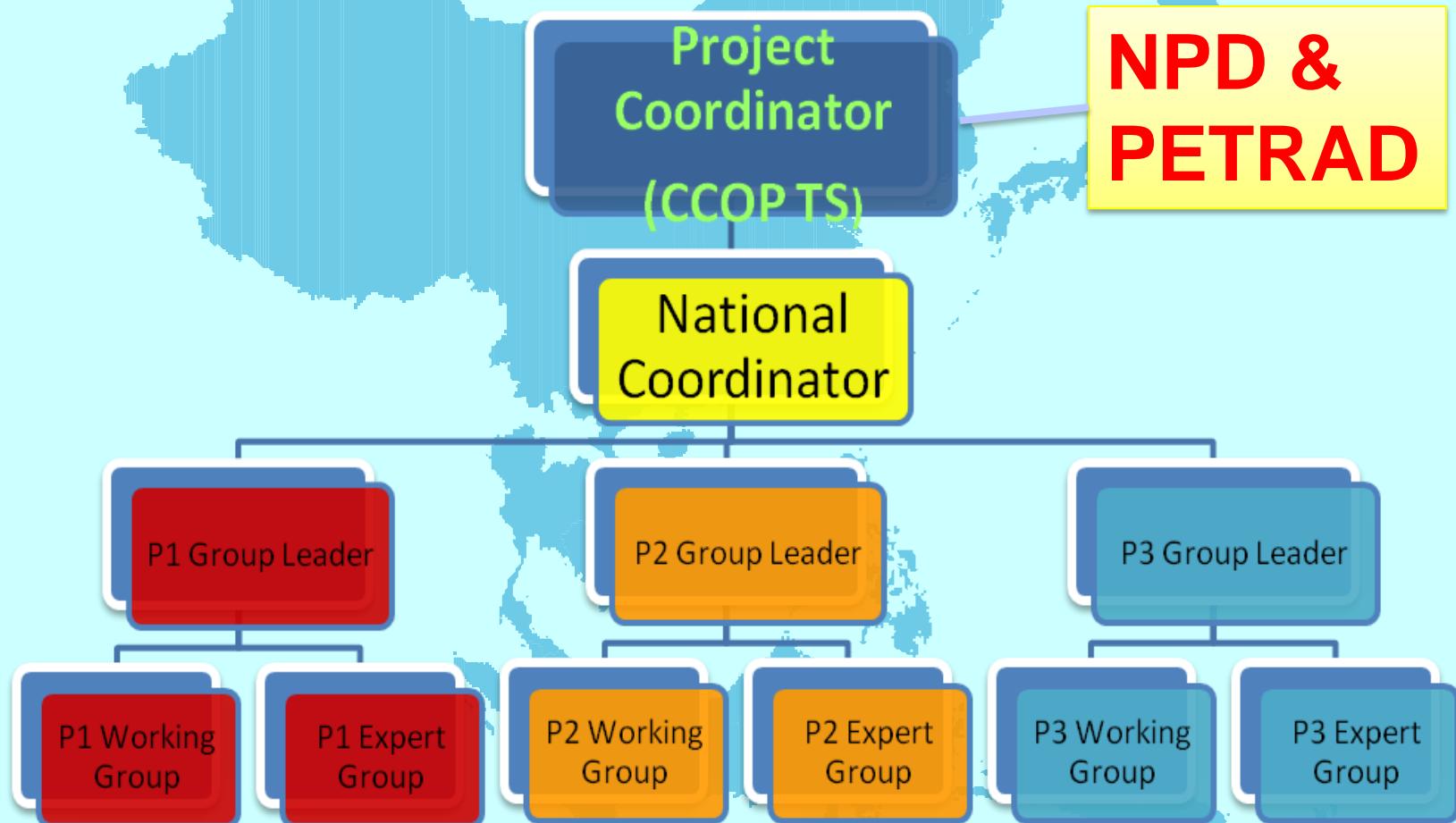


Building on Lessons Learned

- ◆ **Workshops** supporting the case studies
- ◆ **Cross-border** studies
- ◆ **workgroups** & expert groups
- ◆ **Website** for knowledge storage, information dissemination, networking, publication & promotion



EPPM Program – coordination setup



Coordination set up

- ◆ **WorkGroups – established in the MC**
 - multi-disciplinary, including local experts
 - would follow the progress of the Project activities
 - Would secure the data required for the technical activities
 - **A facility for the practice of knowledge management – focus on knowledge sharing & use**
 - **Led by a Group Leader**



Coordination set up

◆ National Coordinators

- **Main contact person** in the MC- to work closely with the Proj Coordinator in the TS
- Can be one of the Workgroup Leader
- Responsible for the management of the WorkGroups & the facilitation of knowledge transfer/sharing

◆ ASCOPE & other NOC's, research institutes and academic institutions are invited to participate in the Program





Program for Enhancing Public Petroleum Management (EPPM)



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Who's Online

We have 2 guests online

Calendar

November 1950
Sun Mon Tue Wed Thu Fri Sat

Counter

00001535
COUNTER STATS

Welcome To The EPPM Program Homepage

WEDNESDAY, 29 OCTOBER 2008 07:00

Here you will find all the latest information about the EPPM Program, the 3 Projects under the Program, the capacity building case studies & workshops under each Projects, the Dissemination Seminars, information about the recently conducted workshops as well as of past workshops/seminars, Upcoming Events, Frequently ask Questions and Answers, and a discussion forum with information on who is online. We have also added information & documents from the past Petroleum Policy Management Projects (PPM).

To return to the CCOP home page, just click on the CCOP Logo.

Recent Events

[S1: EPPM Program Launching Seminar, 9-10 October 2008, Bangkok, Thailand](#)



Group photo of the EPPM Launching Seminar



Work plan for 2009

	O '08	N	D	J '09	F	M	A	M	J	J	A	S	O	N	D
S	█													█	
P1								█			█				
P2						█						█			█
P3							█						█		

S- Seminars



- postponed to 1stQ 2010



Work plan for 2009

- ◆ **P1** - geology & tectonic setting, database, data correlation, fieldworks
- ◆ **P2** – CO₂ & CCS, CO₂- IOR & EOR, Puguang case study (H₂S & CO₂), Gas hydrates
- ◆ **P3** – MC metadata & standards, requirement analysis,, database structure & sw development, sw usage training





Accomplishments



**Coordinating Committee for Geoscience
Programmes in East and Southeast Asia (CCOP)**

P2W1: Workshop on development of natural gas resources with high CO₂ & Carbon Capture and Storage (CCS) in CCOP, Bali, Indonesia, 17-20 March 2009

- ◆ **Development of high CO₂ natural gas resources and CCS as solution to climate change issues**
- ◆ **Conclusions:**
 - **CCS is doable for oil and gas companies**
 - **Globally there is general lack of enabling financial or legal framework on CCS**
 - **Great opportunity of using CO₂ for EOR**



P2W1

- Challenges of geological storage cannot be underestimated

◆ 55 participants (*from 10 MC*)

- Mostly management representatives from various regulatory & research agencies, NOC's, academe, etc
- Resource persons from Norway, Germany & Indonesia



P3W1: Workshop on metadata standards & requirement analysis for the CCOP Natural Gas Database Metadata, 1-3 Apr 09, Shanghai, China

- ◆ metadata standards that can be used for the CCOP natural gas metadata-*harmonizing the existing metadata database*
- ◆ **Conclusions:**
 - To develop a simple practical metadata proto-type – to become a template for MC to use



P3W1

- Metadata – to be compatible to each country's standards (as possible)
- TS will be the portal hosting the metadata server- to be easily accessible by the general public
- ◆ **31 participants** (*from 10 MC*)
 - Resource persons from Norway & MC



P1W1: Workshop on the North Sumatra – Mergui Basin Cross Border Case Study, KRABI, THAILAND 12-14 MAY 2009

- ◆ **Common understanding of the case study basin**
- ◆ **Way forward – building up of database for the case study**
 - Basin analysis workflow process
 - Agreement on the deliverables
 - Regular consultation meeting of the case study countries
- ◆ **20 participants** *(from 9 MC)*



P2W2: Objectives & Contents

- ◆ **P2W2:** *Workshop on natural gas field development with high CO₂ and H₂S – a case study on the Puguang Gas Field in Sichuan Basin, China*
- ◆ **Objectives:** *To develop the capacities of the CCOP Member Countries regarding development of natural gas with high CO₂ & H₂S including options for the geological storage, to be enabled by knowledge and experiences*



P2W2: Objectives & Contents

◆ Technical presentations & discussions

- *Natural gas development & related challenges*
- *Waste gas disposal & storage*
- *Rock fracture & modeling*
- *Best practices & Case studies*
- *Group discussion*
- *Networking*

◆ Field Trip (1-day)





THANK YOU!

Simplicio P. Caluyong
EPPM Coordinator

sim@ccop.or.th



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