

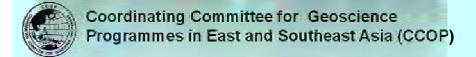
# EPPM Program Update as of March 2010

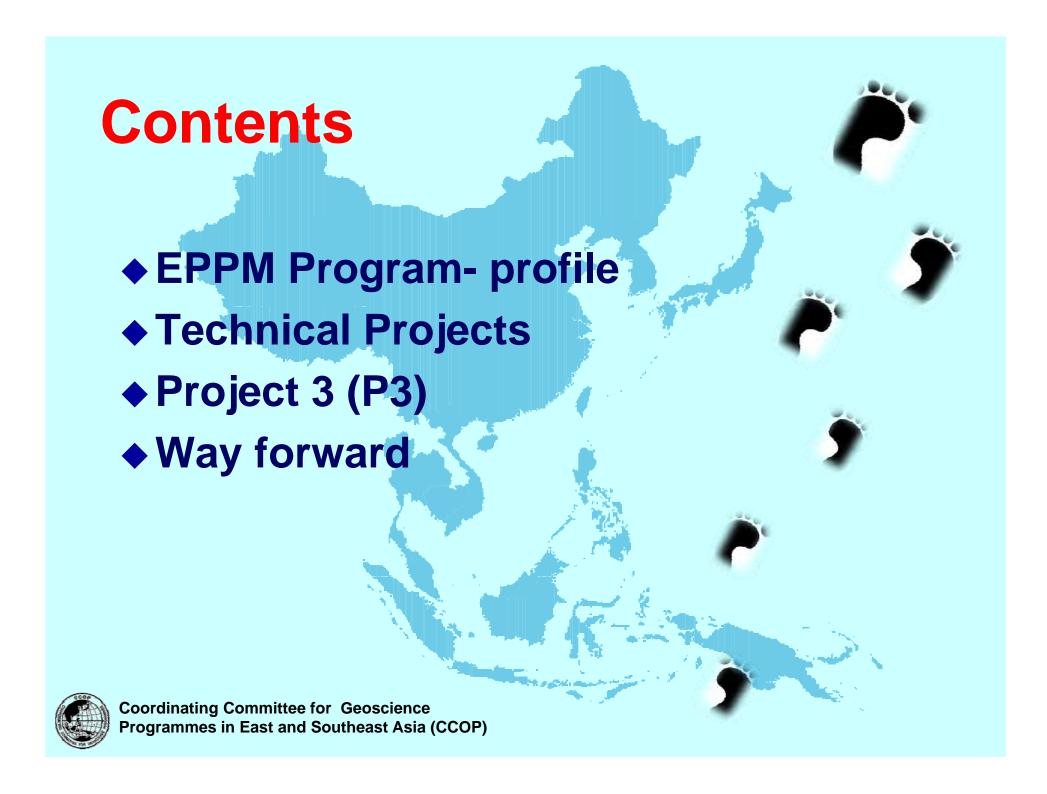
#### Simplicio P. Caluyong

CCOP Technical Secretariat

— P3W3- Pattaya, Thailand

24 March 2010





◆ 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.



- ◆ 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



- ♦ 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

#### 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

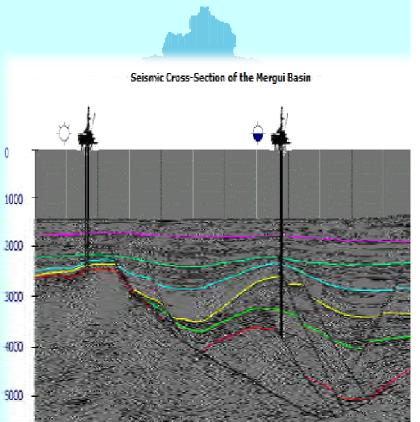
- ◆ Objectives: To enhance the capability and capacity of MC in assessment of the undiscovered petroleum resources with focus on natural gas
- Implementation thru cross-border case study
  - Supported by 6 workshops, field works & trainings

#### **P1**

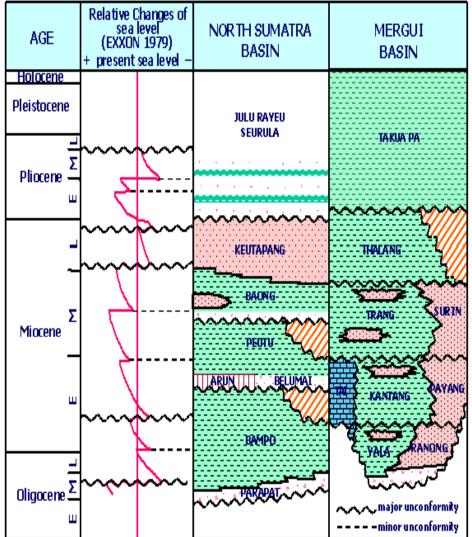
◆ Cross-borderCase study area:North Sumatra –Mergui basin

Shared by Thailand,
 Malaysia &
 Indonesia





#### Stratigraphy of the Mergui Basin





6000

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Source: CCOP EPF 2002

## 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

#### 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

#### **Building on Lessons Learned**

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



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# EPPM Program – coordination setup

Project Coordinator (CCOPTS)

NPD & PETRAD

National Coordinator

P1 Group Leader

P2 Group Leader

P3 Group Leader

P1 Working Group

P1 Expert Group P2 Working Group P2 Expert Group P3 Working Group P3 Expert Group



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

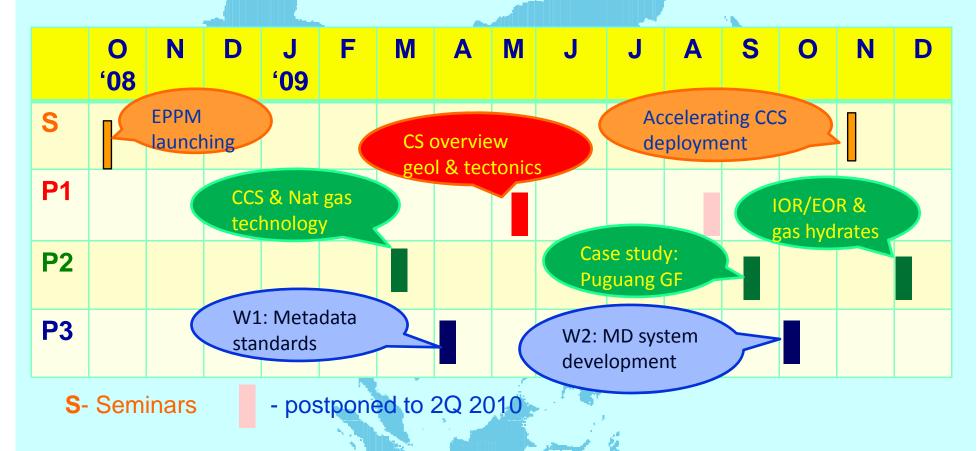
#### Coordination set up

- ◆ 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 and academic institutions are invited to participate in the Program

#### Accomplishment for 2009



EPPM Activity 2009	Participants		
	Female	Male	Total
P2W1- Bali	15	43	58
P1W1 - Krabi	4	19	23
P3W1- Shanghai	13	22	35
P2W2 - Chengdu	16	31	47
P3W2 - Davao	18	25	43
S2 - Bangkok	12	34	46
P2W3 - Danang	13	34	47
total	91	208	299
%	0.30	0.70	1.00



# 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 metadataharmonizing the existing metadata database

◆ 35 participants (from 10 MC)

 Resource persons from Norway & MC



#### **P3W1**

#### **♦** Conclusions:

- To develop a simple practical metadata proto-type – to become a template for MC to use
- Metadata system
   to be
   compatible to each country's
   standards (as possible)
- For the future- TS will be the portal hosting the metadata server- to be easily accessible by the general public





#### EPPM P3W2: Workshop on Metadata System Development, Davao City, Philippines, 7-9 October 2009



- ◆ To develop the metadata system for CCOP on natural gas resources
- ◆ 43 participants (9 Member Countries)

#### ◆ Conclusions

- agreed to use the CCOP Geoscience metadata system that is developed by CGS for the EPPM metadata system- with adjustments to accommodate specific items for oil and gas
- The target user (initial stage) would be focus on investors in the upstream & downstream (oil and gas companies) and Government (regulators & research agencies)



- The sub-category for Oil and Sector in the metadata system and definitions are already proposed and would cover items such as: acreage, fiscal system, geology, geophysics, exploration, reservoir, production, and environment
- The next workshop would involve training for the users of the CCOP geoscience metadata system with work flow analysis and evaluation of the system



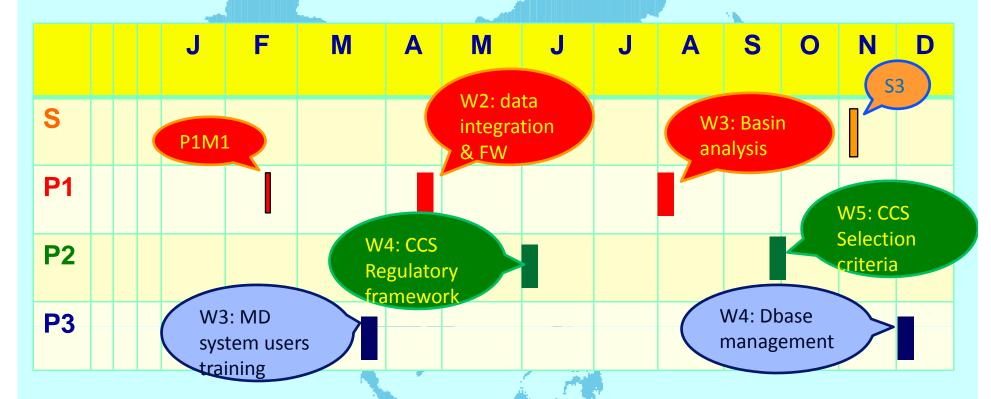
# P3W3: Metadata system users training & workshop

- ◆ To train the users from the CCOP Member Countries on the new CCOP metadata system that is developed by the China Geological Survey (CGS)
  - Review of the CCOP Metadata system its purpose & contents
  - Training on the usage of the system
  - Testing and evaluation of the system
  - Group discussion/presentations

# Way Forward



## Work plan for 2010



#### S- EPPM Seminar 3



#### 2010 Workshop contents

◆ P1

W2: data integration & fieldwork

**W3**: Basin analysis

**♦ P2** 

W4: Regulatory framework for CCS (incl HSE), CDM & gas flaring

W5: Mapping of CCS potential reservoir and selection criteria

**◆** P3

W3: metadata proto-type deployment & usage training

W4: database buildup & management



#### P1M1- LEMIGAS, Jakarta





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

# THANK YOU!

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