



The CCOP - Norway EPPM Program

Simplicio P. Caluyong

EPPM Program Coordinator

CCOP Technical Secretariat

S6- Bali, Sep 2012



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

Contents

- ◆ EPPM Program profile
- ◆ 3 Technical Projects- capacity building activities
- ◆ Accomplishments
- ◆ Way forward



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 Strategic Focus

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



P1- Petroleum Resource Management with focus on Natural Gas

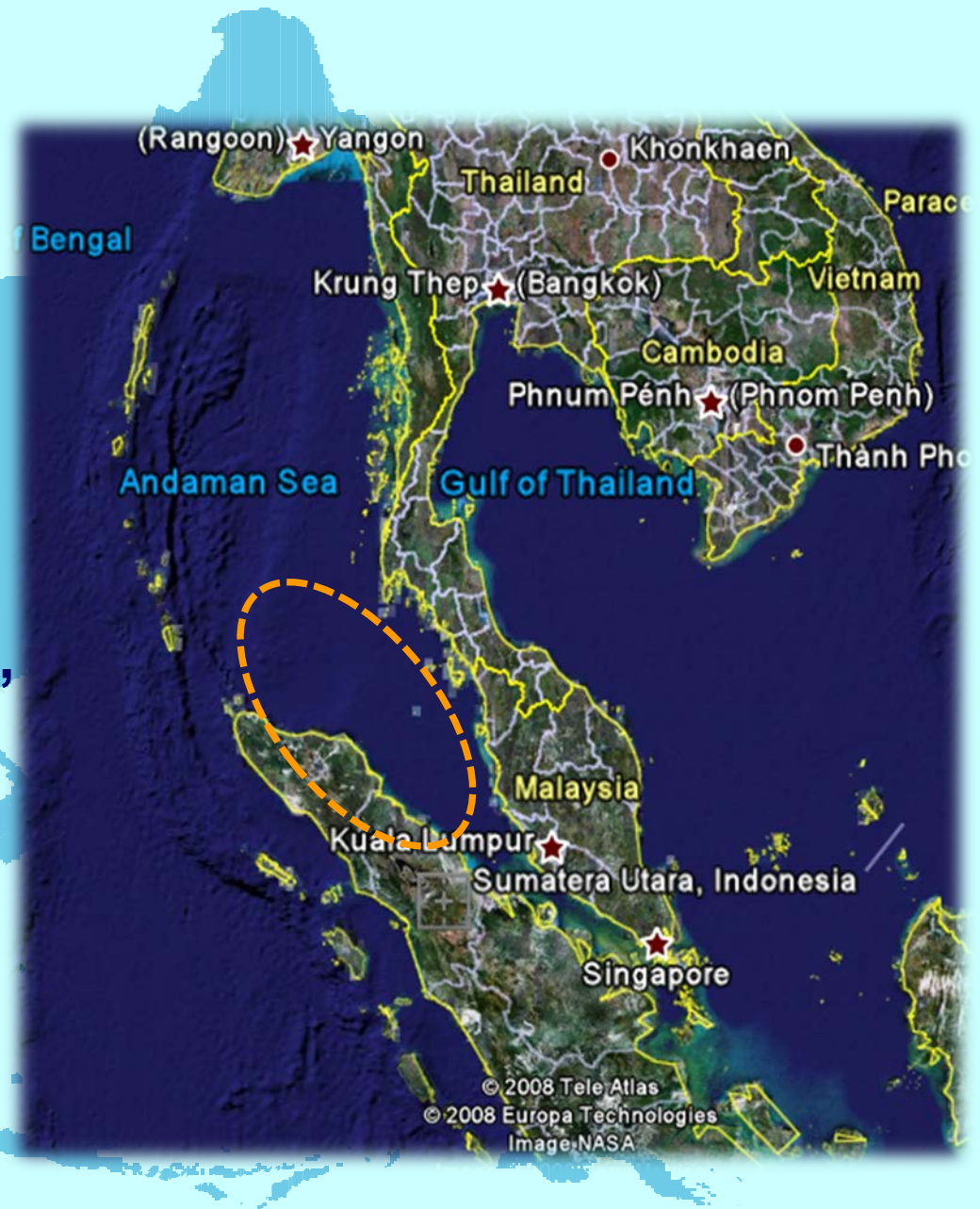
- ◆ **Objectives:** To enhance the capability and capacity of MC in assessment of the undiscovered petroleum resources with focus on natural gas
- ◆ **Implementation thru cross-border case study**
 - Supported by series of workshops, field works & trainings



P1

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

- Shared by Thailand,
Malaysia &
Indonesia



EPPM P1 BASIN ANALYSIS WORKFLOW

Basin Scale

Basin Evolution History
(Basin evolution evaluation)



Regional Structural Trends
(Structural trend analysis)



Basin Architecture
(Regional structural mapping)



Petroleum Systems
(Petroleum systems analysis)

Play Scale

Chronostratigraphy
(Sequence stratigraphic Analysis)

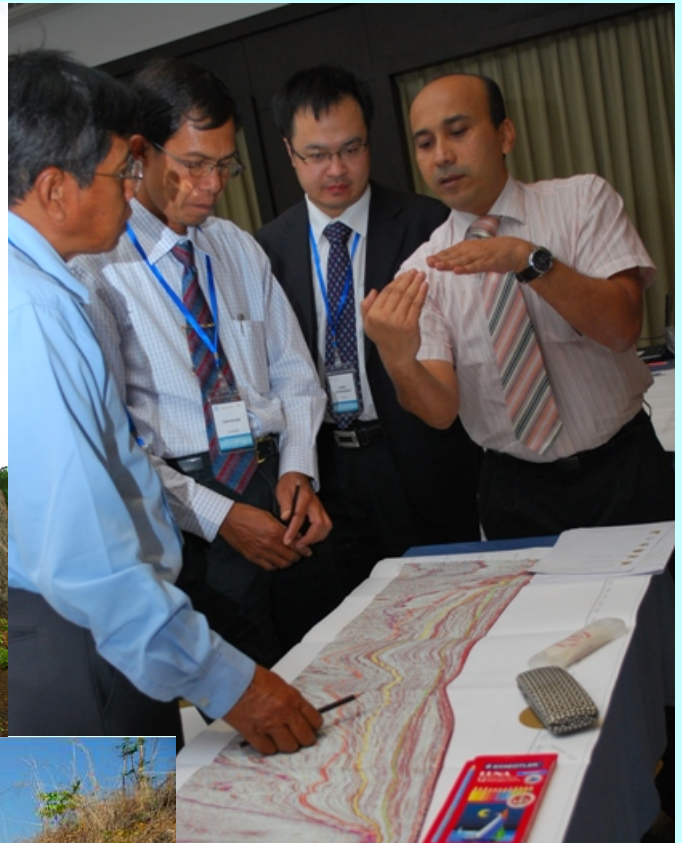


Paleogeography
(Seismic facies analysis)



Play-types Identification
(Play assessment and risking)





**Coordinating Committee for Geoscience
Programmes in East and Southeast Asia (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
 - Natural gas development technologies
 - Case study of SINOPEC's Puguang gas field (Sichuan basin)- high H₂S & CO₂



EPPM P2

◆ Availing of world-class expertise through the **PETRAD** networks



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



Impact of EPPM

- **Enhanced the cooperation of Member Countries**
 - In-kind support: availability of local experts & willingness to host the technical activities
- **Formation of working groups to follow the technical activities**
 - Knowledge learned are disseminated through reporting and conduct of seminars in the participant's respective organization
- **Adoption of some concepts learned in basin assessment and exploration promotions**



Impact of EPPM

- **Greater awareness**
 - Impact of GHG to climate change & about CCS as one of the solutions for mitigations
 - Importance of data management to support research, regulatory functions, new initiatives, etc
- **Easier facilitation of new projects in the CCOP TS**



Plan for 2012

Activities	Jan-12	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CCOP-Norway Annual Mtg		8/BKK										
S4: UNFC		9-10/BKK										
P3- Training GIMS CA/LAO/TL/MYR			13-14/PHN									
P3W6			15-17/PHN									
P1W6				22-24/MY								
S5: Decommissioning						12-14/TH						
DS1: Gas Devt & CCS								12-14/IN				
DS2: P1 Case Study											5 /MY	
FINAL REPORT												





[Home](#) [Projects](#) [Contact Us](#) [Gallery](#) [News & Events](#) [Calendar](#) [Publications](#)

Last modified on Aug. 30, '12

Welcome to the EPPM Program homepage

[use google search](#)

Sep 2012						
S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

[More...](#)

Here you will find the latest information about the CCOP - Norway Program for Enhancing Public Petroleum Management of the CCOP Member Countries (EPPM Program), the 3 Projects under the EPPM Program, the capacity building case studies and workshops under each Projects, dissemination seminars, information about the recently conducted Workshops as well as of past Workshops/Seminars and upcoming events.

The EPPM Program is a 4-year program commencing in July 2008 and is funded by the Norwegian Government to benefit the CCOP Member Countries. 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. For the implementation of the technical activities, CCOP partnered with the Norwegian International Programme for Petroleum Management and Administration (PETRAD) and Norwegian Petroleum Directorate (NPD).

EPPM P1W6: North Sumatra - Mergui Basin Case Study: Risking of Petroleum Plays and Prospects, 4-7 September 2012, Sabah, Malaysia

August 30, 2012

EPPM P1W6: North Sumatra - Mergui Basin Case Study: Risking of Petroleum Plays and Prospects

[More...](#)

Recent Publication

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





The CCOP CO₂ Storage Mapping Program & Other Future Projects in the O & G (sub) Sector

Simplicio P. Caluyong

EPPM Program Coordinator

CCOP Technical Secretariat

S6- Bali, Sep 2012



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

For the Future..

(1) CO₂ Storage Mapping Program in CCOP

◆ Scope:

- safe storage of CO₂ and
- possible use of CO₂ for increased recovery



◆ Contents

- **Case Studies Projects** – onshore & offshore CO2 Storage potential
- **Methodology & Guidelines as Toolkits** - to initiate CO2 Mapping Projects
- **CCS pilots** in the Member Countries
- Supported by workshops, expert visits and field works- & will include public awareness topics



- 
- ◆ **Website & GIS system** - to facilitate the sharing of information
 - ◆ **QC & QA** by our technical partner
 - NPD and GCCSI
 - Project Steering Committee
 - ◆ **Integration of country CO₂ storage maps to develop the CO₂ Storage Atlas of CCOP**
 - will be developed to present the best available estimates of potential CO₂ storage resource determined by each of the MC's based on an established and standard methodologies.



- 
- A light blue map of East and Southeast Asia is centered in the background of the slide. The map shows the outlines of China, India, and the Southeast Asian archipelago.
- ◆ **Duration: 4 years, starting mid -2013**
 - **Facilitating Phase** – 6 months
 - **Case Study Phase & Atlas Development** – 3 years & 6 months
 - ◆ **Budget: ~USD2.0 Million**



◆ Potential Fund / Technical Sources

- Member and Cooperating Countries who have existing projects related to CO₂ storage
- **Global CCS Institute (Australia)**
- **IEAGHG (UK)** – resource persons on their own cost
- **ADB** – will share the outcome of their CCS –storage capacity building Projects



- 
- **APEC** – to share their CCS potential map
 - ◆ **Norway** through the Royal Norwegian Embassy in Bangkok & other MC
 - ◆ Other relevant organizations



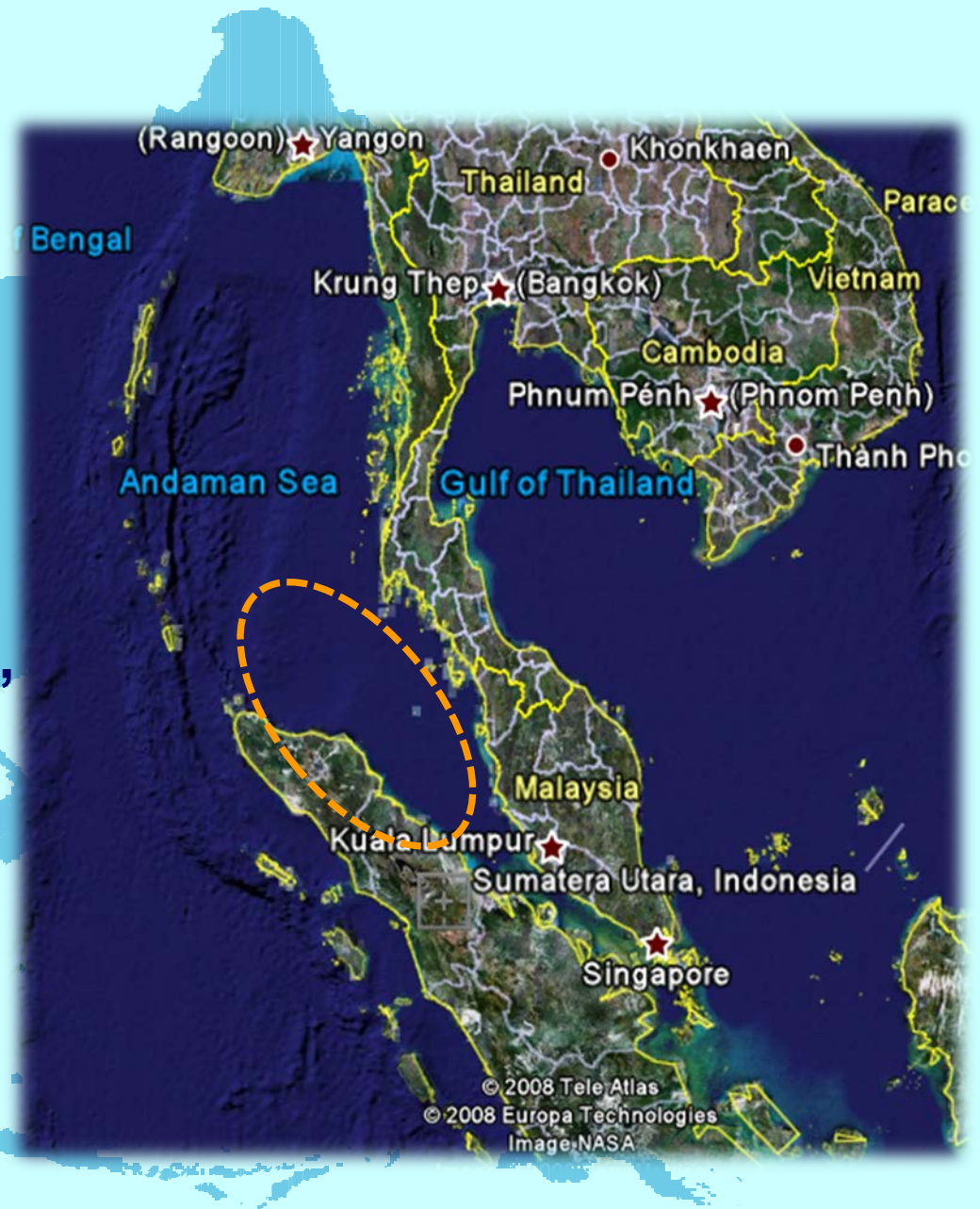
- 
- ◆ ***CCOP, together with partner organizations in Cooperating Countries can demonstrate a partnership in addressing unique challenges that will affect the world.***



(2) P1

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

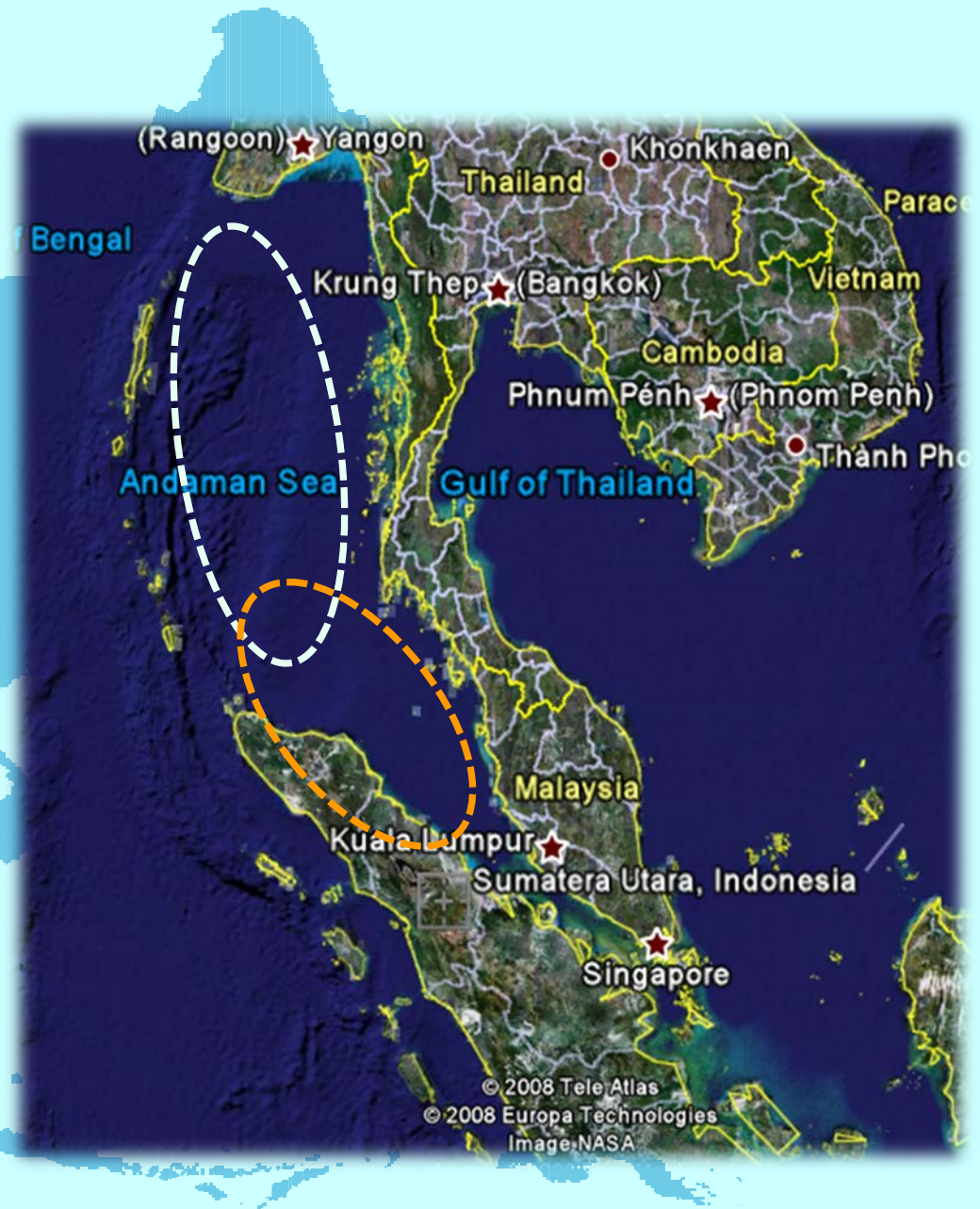
- Shared by Thailand,
Malaysia &
Indonesia



P1- phase 2

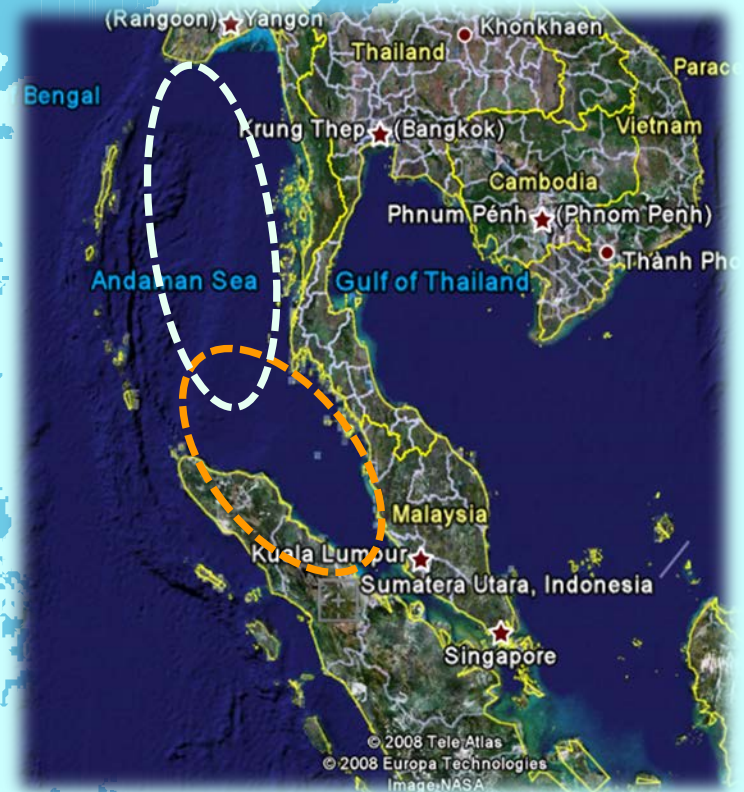
◆ Cross-border Case study area: North Sumatra – Mergui basin

- Indonesia,
Malaysia, Thailand
and Myanmar

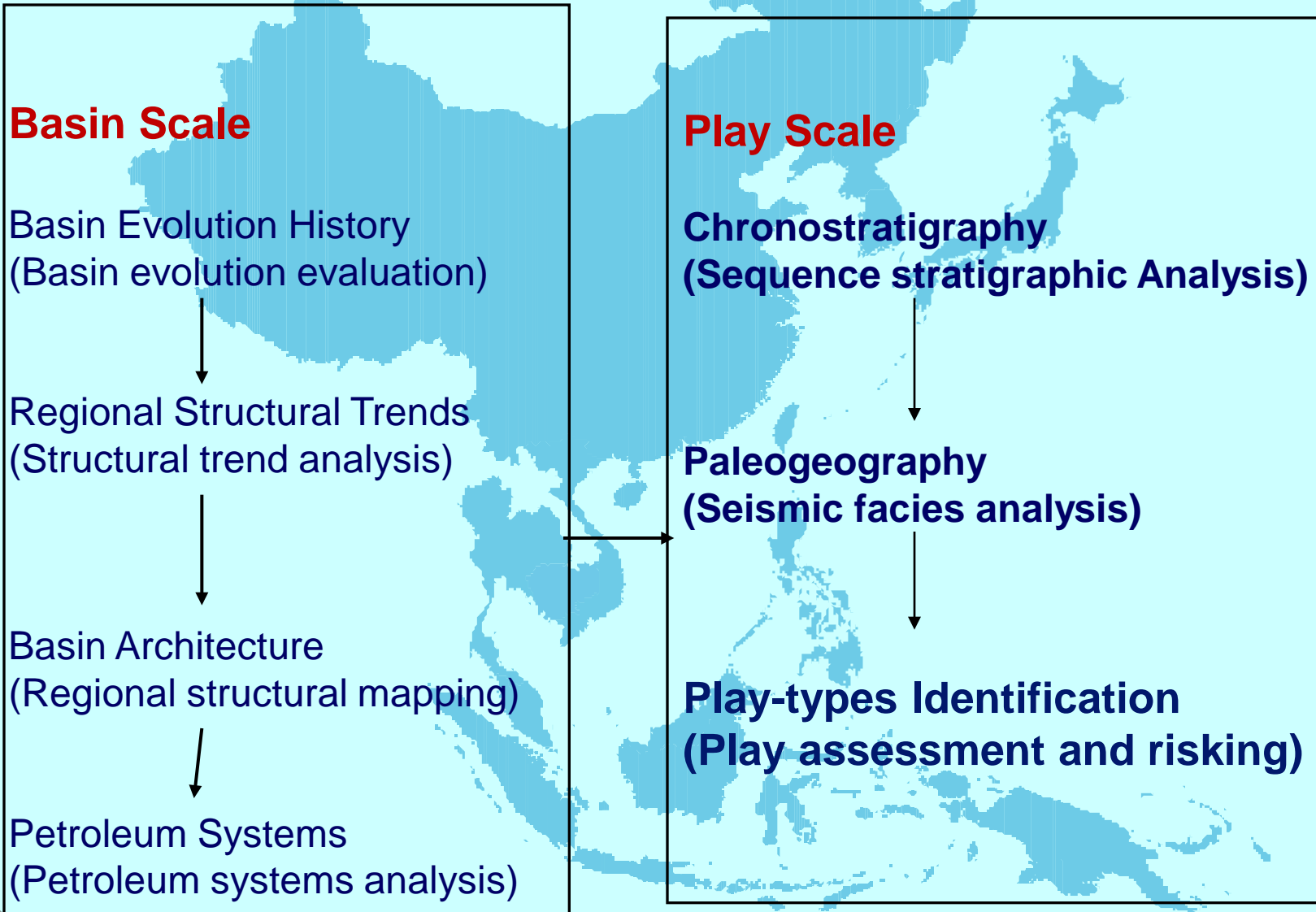


P1- phase 2

- ❖ **Duration: 2 years, starting 2012**
- ❖ **Budget: ~USD 0.4 Million**
- ❖ **Activities: Cross-border case study, workshops, expert visits and field works.**



EPPM P1 BASIN ANALYSIS WORKFLOW



A Project on Unconventional Energy Resources

- ❖ **Mapping of gas & oil shale hydrates, and CBM**
- ❖ **Development & production technologies**
- ❖ **Resource assessment**
- ❖ **New oil and gas plays**

Developing policies/strategies for investments





THANK YOU!

Simplicio P. Caluyong
EPPM Coordinator
sim@ccop.or.th



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