"International Workshop on Landslide Risk Assessment and Management for ASEAN Member States"

1-2 June 2017 Bangkok, Thailand



LANDSLIDE MITIGATION IN CCOP

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WHAT IS CCOP?

CCOP: Coordinating Committee for Geoscience Programmes in East & Southeast Asia

CCOP

An Organization is made up of people.

VISION

Geosciences for a sustainable future

MANDATE

Promote & coordinate joint applied geoscience programmes for sustainable development in East & Southeast Asia

Role of CCOP

CCOP plays an important capacity building role in geoscience program in East & Southeast Asia.

CCOP has an active networking and friendship built through years of cooperation among geoscience organizations.

CCOP is willing for cooperation with other countries & organization to hold capacity building programs/activities & sharing of information in geosciences.

STEERING COMMITEE

- 1. Cambodia 5. Republic of Korea 10. The Philippines
- 2. **China** 6. La
 - 6. Lao PDR

11. Singapore

- 3. Indonesia 7.
 - 7. Malaysia

12. Thailand

- 4. Japan
- 8. Myanmar

- 13. Timor-Leste
- 9. Papua New Guinea 14. Vietnam

- 1. Australia
- 2. Belgium
- 3. Canada
- 4. Denmark
- 5. France
- 6. Germany
- 7. The Netherlands
- 8. Norway
- 9. Poland
- 10. Russian
- 11. Sweden
- 12. Switzerland
- 13. United Kingdom
- 14. United States of America

Member Countries (MC)

(IVIC)

Cooperating

Organizations

(CO)

- 1. ASCOPE
- 2. CIFEG
- 3. CPC
- 4. EUROGEOSURVEYS
- 5. GETECH
- 6. IOC
- 7. IOMAC
- 8. IUGS
- 9. PETRAD
- **10. UKM**
- 11. UN-ESCAP
- **12. UNEP**
- 13. UNESCO-
- 14. THE WORLD BANK
- 15. SOPAC



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

Cooperating

Countries

(CC)

What CCOP is doing now?

- Facilitate data sharing
- Efficient exchange of data: efficient, fast and seamless earth science data exchange

Data & This Data &

Cooperation & Partnership

- Enhancing networkingEffective collaboration
- Delivering science to the public
- Practicing knowledge management
- Exploiting the Web

Outreach

Knowledge Enhancement & Sharing

- CCOP's programmes to be aligned with the MC's needs and complementing the expertise at hand
- Enhancing capabilities by learning from activities in the past and best practices from similar activities in the MCs & CCs.

Geo-Resources Sector

Geo-Environment Sector

Geo-Information Sector



Indonesia

RAPID MOVEMENT OF LANDSLIDE AT BANJARNEGARA, CENTRAL JAVA, Indonesia





4 January2006, 142 peoples died More than 100 houses destroyed

Land Use



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



Malaysia

Highland Towers, 11.12.1993 48 fatalities







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

Malaysia



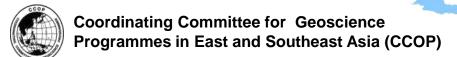
Coordinating Committee for Geoscience
Programmes in East and Southeast Asia (CCOP)

Land Use

Philippines



Overloading



Philippines



Overloading



Vietnam





Landslide hazard happened on 14/9/2004 in Sùng Hoảng village, Phìn Ngan commune, Bát Xát district, Lào Cai province. **24 people deaths**

Agriculture



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

Vietnam









Landslide occurred Yên Thắng village, Thắng Quân commune, Yên Sơn district, Tuyên Quang province on the early morning in 26/7/2012.

Landslide killed 2 people and destroyed a house.



High Terrain

Thailand





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

Creeping

Thailand





Single Crop

Thailand





BEFORE

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

AFTER

Slope Stability

Community-based Geohazard/ Landslide Mitigation



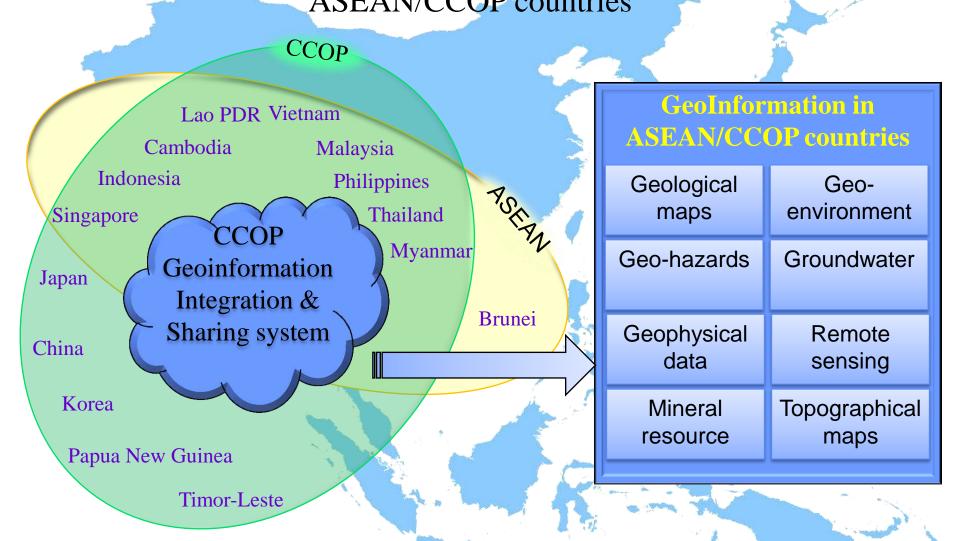
CCOP-VIGMR-DMR training course on Community-based Landslide Mitigation Ha Noi – Yen Bai, Vietnam 19-20 November 2013





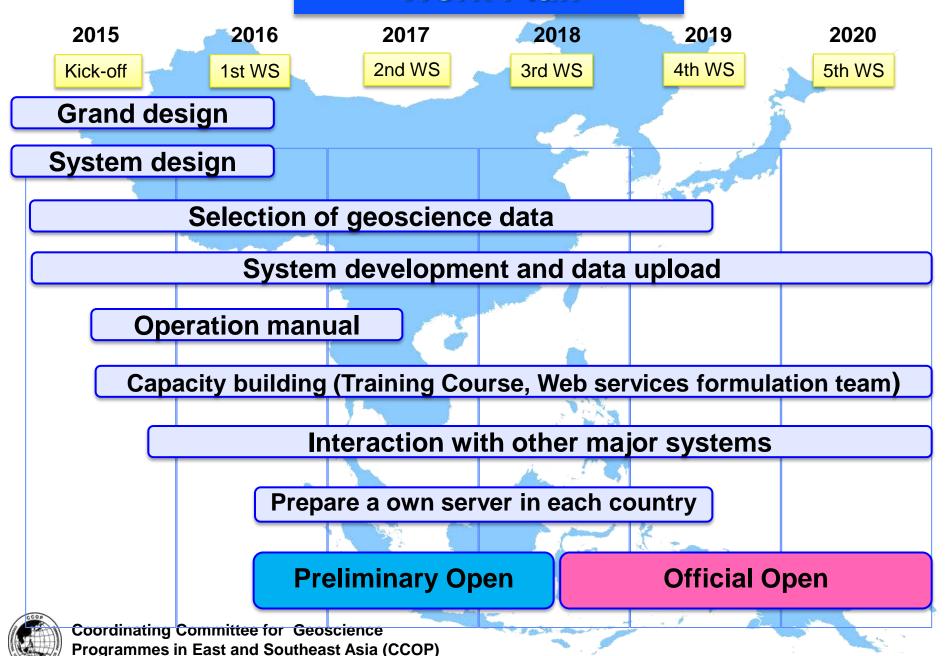
Monitoring Station of landslide &Climate in Bac Kan Province

Develop a new **geoinformation integration and sharing system** using international standards and free and open-source software among ASEAN/CCOP countries





Work Plan



GSi Project Kick-off Meeting





