

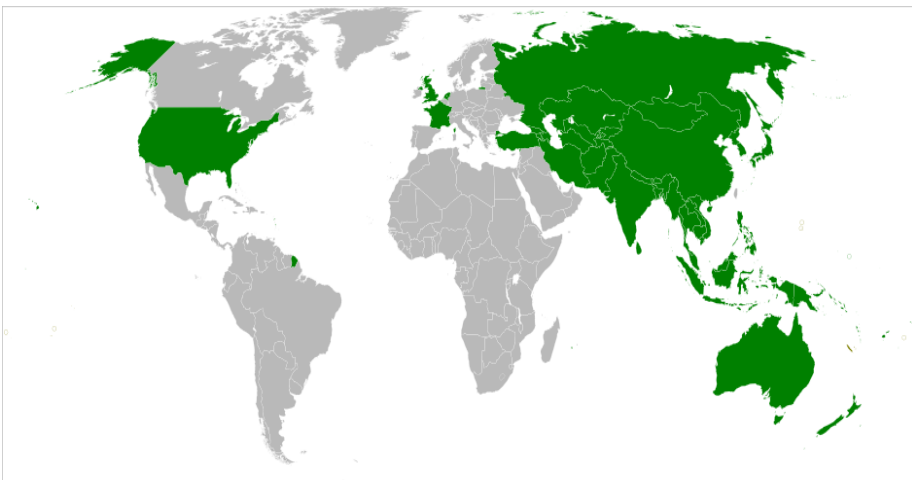
Regional Cooperation on Space Technology Applications for DRR and SD

5-10 October 2015

UNRCC-AP & UNGGIM-AP

Tae Hyung KIM
Economic Affairs Officer
ICT and Disaster Risk Reduction Division
UNESCAP

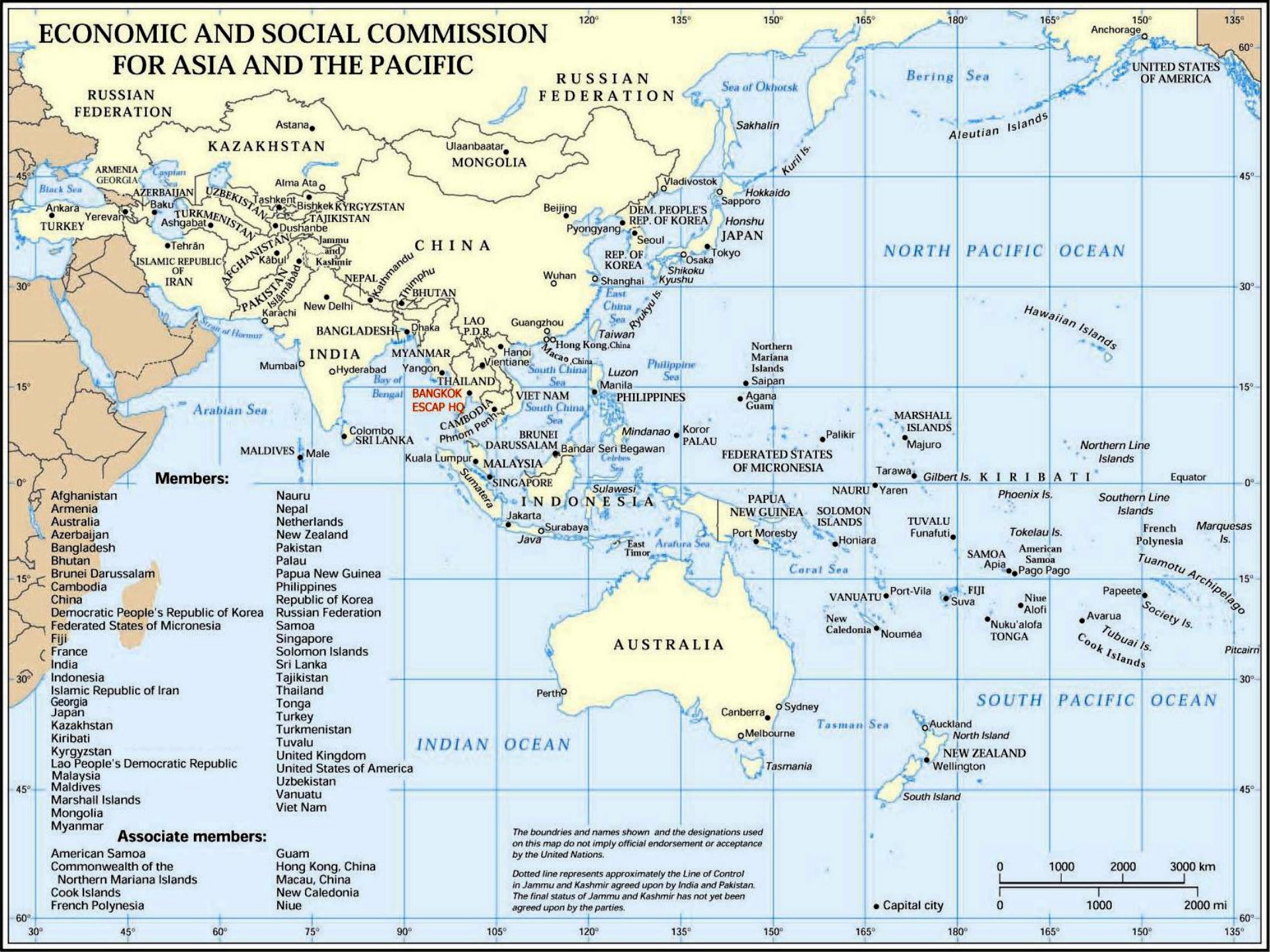
Who is ESCAP?



United Nations
Economic and Social
Commission
for Asia and the Pacific



ECONOMIC AND SOCIAL COMMISSION FOR ASIA AND THE PACIFIC



Members:

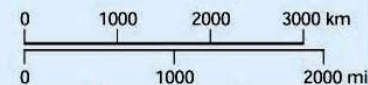
- Afghanistan
- Armenia
- Australia
- Azerbaijan
- Bangladesh
- Bhutan
- Brunei Darussalam
- Cambodia
- China
- Democratic People's Republic of Korea
- Federated States of Micronesia
- Fiji
- France
- India
- Indonesia
- Islamic Republic of Iran
- Georgia
- Japan
- Kazakhstan
- Kiribati
- Kyrgyzstan
- Lao People's Democratic Republic
- Malaysia
- Maldives
- Marshall Islands
- Mongolia
- Myanmar
- Nauru
- Nepal
- Netherlands
- New Zealand
- Pakistan
- Palau
- Papua New Guinea
- Philippines
- Republic of Korea
- Russian Federation
- Samoa
- Singapore
- Solomon Islands
- Sri Lanka
- Tajikistan
- Thailand
- Tonga
- Turkey
- Turkmenistan
- Tuvalu
- United Kingdom
- United States of America
- Uzbekistan
- Vanuatu
- Viet Nam

Associate members:

- American Samoa
- Commonwealth of the Northern Mariana Islands
- Cook Islands
- French Polynesia
- Guam
- Hong Kong, China
- Macau, China
- New Caledonia
- Niue

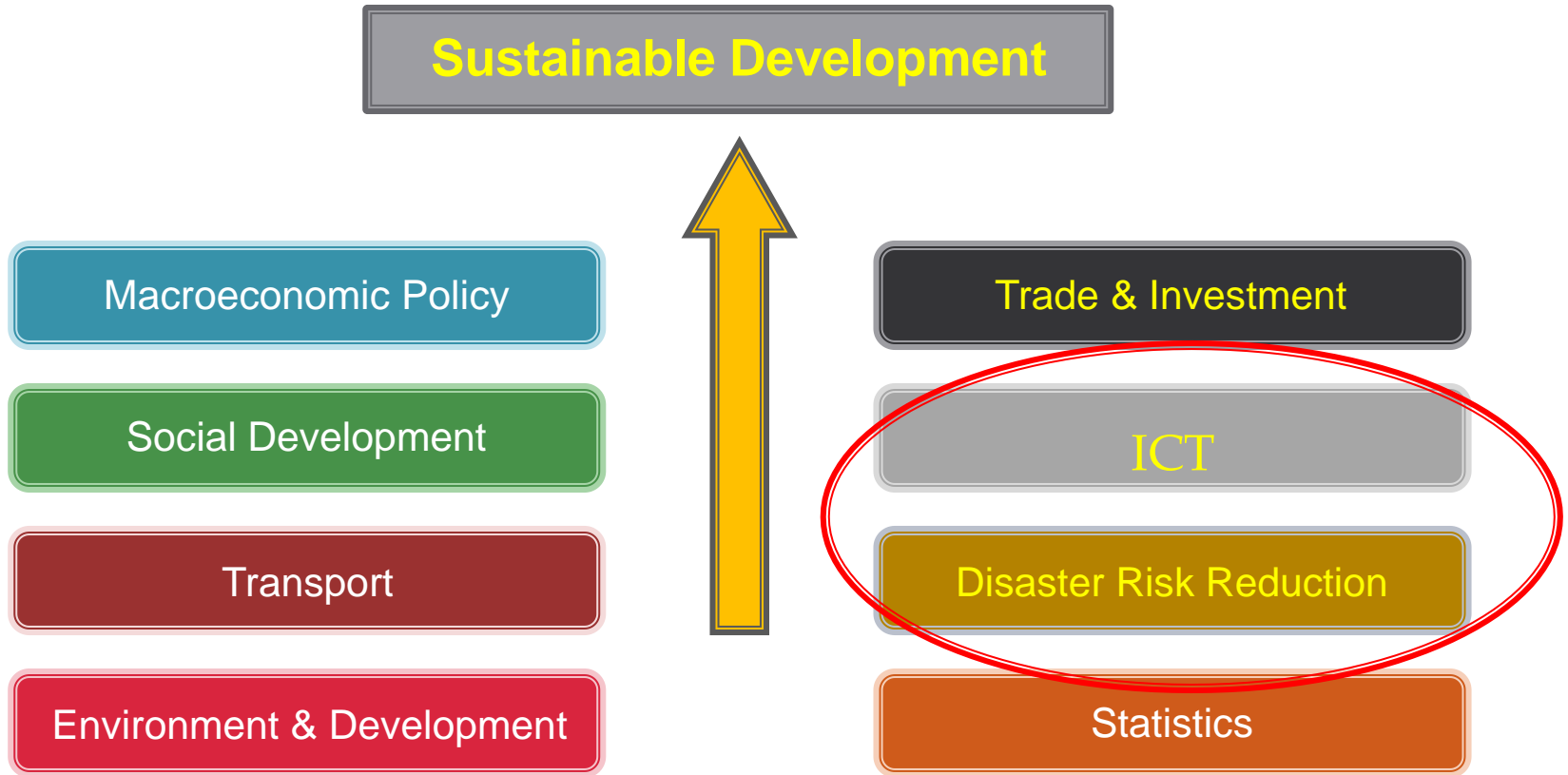
The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

Dotted line represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not yet been agreed upon by the parties.



● Capital city

Areas of Work



What is ESCAP Doing?



1. **Regional intergovernmental platform** for sustainable development (**Resolutions**)
2. **Policy and norm setting** to address sustainable development challenges (disaster, climate change)
3. **Regional knowledge hub** for sharing know-how, experience and practices

What We Need for DRR

1. **Access to geospatial data and information** - Database
2. **Analytical capacity** for evidence-based decision makings
 - Scenario and patterns, GIS specialists
 - Geo-referenced information system (Geo-portal)
3. **Mobilization and implementation capacity**
 - SDI, early warning system, response capacity
 - Policy, strategies, action plans.....
4. **Institutional arrangements and technology**
5. **Regional cooperation frameworks (mechanisms)**
 - UN Regional Commission, RESAP, UNGGIM, UNRCC.....

What Developing Countries Need

1. **Limited access** to geospatial data and Information
 - Low access to space imagery and digital maps
 - Integrated database
2. Analytical capacity for evidence-based decision makings
 - **Geospatial information system....**
 - **Decision making tools**
3. **Lack of a critical mass of GIS specialists**

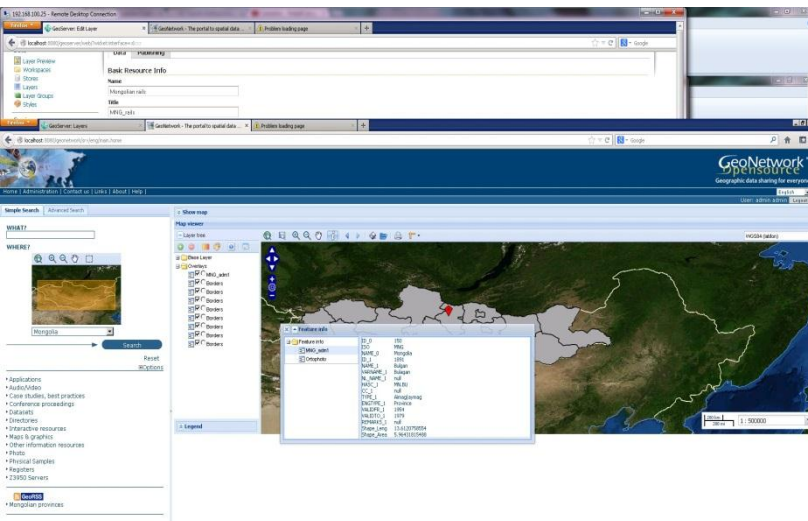
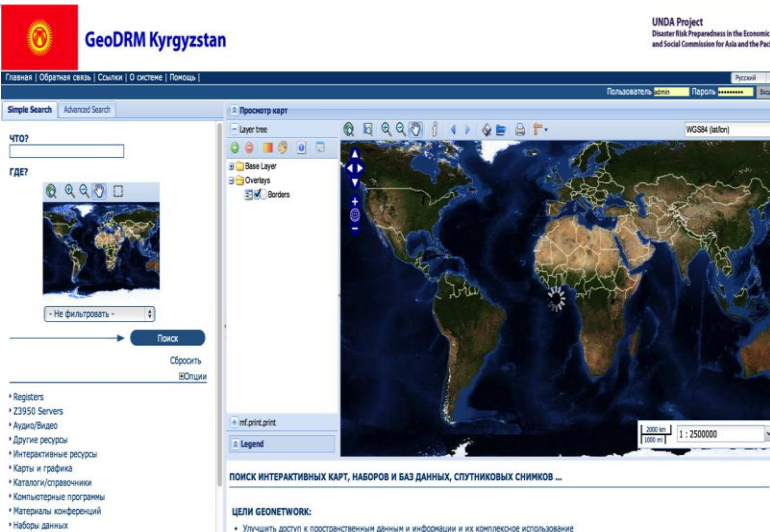
What Developing Countries Need

4. Mobilization and implementation capacity
 - Low national mobilization capacity during emergency
 - Policy, **strategies**, action plans on GIS.

5. Institutions and technology
 - **Interchange data among ministries**
 - Integrated system among data, decision makers, planners and people
 - **Less user groups**

6. **Support by regional cooperation frameworks**
(mechanisms)
 - RESAP, UNGGIM, UNRCC.....

What IDD Doing?



1. Geo-DRM

- Open sourced geo-referenced information systems for disaster risk reduction(Geo-DRM)
- Space-derived data + ground socio-economic data = monitoring and early warning
- Evidence-based approaches for right decision making
- Geo-portals in pilot countries: Bangladesh, Fiji, Kyrgyzstan, Mongolia, Nepal, and the Cook Islands
- Capacity building & Open source S./W

What IDD Doing?



2. Regional Drought Mechanism

- Space-derived data for monitoring and early warning of drought
- Regional service nodes: China and India (knowledge, data and satellite information)
- Pilot countries: Sri Lanka, Mongolia



What IDD Doing?



3. Provision of satellite imagery

- Provide near real time satellite images to disaster affected country, region and communities

4. Analytical researches

- Regional guidelines on rapid assessment of damage and losses (with SAARC)
- SOPs for utilizing space based data during disasters (with ASEAN)

What IDD Doing?



5. RESAP Secretariat

- Play as a secretariat of the Regional Space Applications for Sustainable Development (RESAP) since 1994
- Organizing the 19th intergovernmental consultative Committee (ICC) of RESAP for 26-28 October in UN Conference Center in Bangkok, Thailand

Case: Capacity Building





LEAGUE OF MUNICIPALITIES OF THE PHILIPPINES

2/F LMP Bldg., 265 Ermin Garcia St., Cubao, Quezon City
Telefax: (02) 913-5737 to 38, 440-7306, 440-7290

Manifestation of Gratitude and Collective Request for the Grant of Pilot Projects to the Municipal Governments of the Philippine

We, the undersigned Municipal Mayors of the Republic of the Philippines, express our profoundest gratitude and sincere appreciation for the unqualified support extended by the Government of the Republic of Korea and the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP) on the promotion of space technology and geospatial information systems (GIS) applications for disaster risk reduction and management.

We, in particular, convey our deepest appreciation for the kind support extended by the Korean Government and the UNESCAP in organizing the "Senior Policy Makers Forum on Space Technology Applications for Disaster Risk Management and Sustainable Development of Philippine Local Governments" on 25 February 2015, Manila, Philippines, which inarguably enhanced our awareness on its huge potentials in the areas of disaster risk reduction, urban planning, transportation and resource management, among others.

On behalf therefore, of the League of Municipalities of the Philippines (LMP), we would like to formally convey to the Government of the Republic of Korea and the UNESCAP our collective request to provide continued support to the municipal governments of the Philippines through pilot projects to demonstrate the applications and benefits of space technology and earth observation technologies at the local levels, including geospatial data management.

Signed this 25th day of February 2015 Century Park Hotel in Manila, Philippines

Rodolfo D. Luna
National Auditor
Mayor of Don Victoriano,
Misamis Occidental

Lampa I. Pandi
Business Manager
Mayor of Poono-Bayabao,
Lanao del Sur

Jonathan D. Tan
Public Relations Officer
Mayor of Pandan, Antique

Ramon A. Orfanel
General Legal Counsel
Mayor of Catanauan,
Quezon

Nilo M. Villanueva
Deputy National Treasurer
Mayor of Mabini, Batangas

Tito S. Sarion
Deputy Secretary General
Mayor of Daet, Camarines
Norte

James S. Edduba
Presidential Adviser
Mayor of Pasil, Kalinga

Florante C. Pascual
Presidential Adviser
Mayor of Lal-lo, Cagayan

Gerry R. Jaucian
Presidential Adviser
Mayor of Daraga, Albay

Arnulf Bryan B. Edentebella
Presidential Adviser
Mayor of Tigaon, Camarines
Sur

Niel C. Tupas III
Presidential Adviser
Mayor of Barotac Viejo,
Iloilo

Manuel L. Fortes Jr.
National Spokeperson
Mayor of Barcelona,
Sorsogon

Abraham T. Burahan
Secretary General
Mayor of HadjiPanglimaTahil
Sulu

Leonardo M. Javier, Jr.
National President
Mayor of Javier, Leyte

Germelina S. Goulart
EVP for Operations
Mayor of Caoayan, Ilocos
Sur

Joseph B. Bernos
VP for Internal Affairs
Mayor of La Paz, Abra
Sur

Eldwin M. Alibutdan
VP for External Affairs
Mayor of Ipil, Zamboanga
Sibugay

Dennis Norman T. Go
VP for Special Concerns
Mayor of Gerona, Tarlac

Ferdinand R. Abesamis
Luzon Island Cluster Vice -
President
Mayor of Peñaranda,
Nueva Ecija

Democrito M. Diamante
Visayas Island Cluster
Vice-President
Mayor of Tuburan, Cebu

Diosdado G. Pallasigue
Mindanao Island Cluster
Vice-President
Mayor of Isulan, Sultan
Kudarat

Ace William E. Cerilles
National Treasurer
Mayor of Dimalinao,
Zamboanga del Sur

Call for Partnerships

1. Projects on space tech and GIS for DRR – building critical mass
 - Capacity building on geospatial data management
 - Geo-information systems as decision making tools
2. Research and applications
 - Mobile geospatial information applications
 - Drone-used early warning system and impact assessment
 - Regional implementation strategy for SDGs
3. Long-term goal
 - **Regional funding mechanisms**, specialized for space tech and GIS
 - **Sub-regional Ministerial Conferences on Space Technology and GIS** for SD



Thank you very much

Tae Hyung KIM

**Economic Affairs Officer
ICT and Disaster Risk Reduction Division
UNESCAP**

Tel: (66) 2-288-1533

Email: kimt@un.org

