Regional Cooperation on Space Technology Applications for DRR and SD

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UNRCC-AP & UNGGIM-AP

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Who is ESCAP?

United Nations Economic and Social Commission for Asia and the Pacific
Areas of Work

- Macroeconomic Policy
- Social Development
- Transport
- Environment & Development
- Trade & Investment
- ICT
- Disaster Risk Reduction
- Statistics

Sustainable Development

ESCAP’s 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
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)
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
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

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Mayor of Javier, Leyte

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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

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