



18th UNRCC-AP Resolutions, October 2009

"Spatial Enablement and the Response to Climate Change and the Millennium Development Goals"

WG1: Regional Geodesy Technologies and Applications

WG2: Geospatial Data Management and Service

WG3: Spatially Enabled Government and Society

Strong emphasis on disaster management - a tangible driver for spatially enabled society in the Asia-Pacific region GEOSCIENCE AUSTRALIA

WG3: Spatially Enabled Government & Society

The 18th UNRCC-AP recognised the:

- Benefits of having access to data in times of disaster for assessment & relief
- Ongoing difficulties of many member states in accessing all forms of spatial data, remote sensing & land administration for disaster management
- Importance of the integration of fundamental data with other spatial data, including hazard & exposure data sets in support of disaster mitigation & reduction
- Power of spatial tools in integrating various data from many sources & multiple formats, & that the discovery, access, integration & delivery of geospatial data can become much easier with enhanced interoperability

The 18th UNRCC-AP recommended that:

- PCGIAP undertake a study to understand, compare & determine the state of spatially enabled government & society, including levels of maturity & governance of SDI, in the region
- PCGIAP formalises & maintains its annual forum on Land Administration in Asia & the Pacific
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Asia-Pacific: A region in need

- Region frequently subjected to many natural hazards
- 60% of world's population in 56 countries
- Population and urbanisation is growing megacities
- Development unplanned and in the most vulnerable regions
- Disasters are common with many countries affected by multiple hazards
- Countries with high population densities at high risk
- Mega-disasters have happened...and will continue
- Disaster risk reduction is an emerging priority, and recognised by national leaders
- The effects of climate change is an unknown variable
- DRR is a major driver for a spatially enabled Asia-Pacific









Spatially enabled society?

- Gl is now recognised as an invasive enabling technology, generating and liberating copious amounts of data and information – building the 'evidence base' for informed decision making
- SES, SEG and SDI are common terms used in developed nations. In the developing nations they are NOT
- Many challenges remain for the global GI community as it works together to remove barriers, particularly in institutional and legal systems in developing countries
- Every country should have access to the 'road map' to develop SDI capacity and capability
- This capacity should not just be provision of fundamental data, but should also contribute to building capability in areas of disaster management, climate change, economic growth, and sustainable development
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West Sumatra earthquake

- April 2009: AIFDR established in Jakarta
- 30 Sept. 2009: 7.6M earthquake off West Sumatra
- Widespread damage to buildings, 130,000+ destroyed or severely damaged
- 1,000+ lives lost in Padang and districts
- AIFDR initiated a post-disaster building damage assessment
- Understand importance of construction type and quality for earthquake mitigation
- 4,000+ buildings assessed, 70 people, 3 weeks
- Particular emphasis on schools and medical facilities several hundred assessed
- First systematic damage survey for input into community risk assessment undertaken







- AusAID and GA have supported DRR in Philippines since 2007
- Developed long-term partnerships with Philippine technical agencies to support CSCAND and National Disaster Coordination Centre
- Concerns about the availability and accessibility of appropriate fundamental data for hazard and risk assessments
- Outcome: GA provide targeted technical assistance to NAMRIA:
 - Assist NAMRIA to improve their data validation system
 - Develop an internal NAMRIA Spatial Data Infrastructure strategic and implementation plan
 - Pilot a small 1:50K topographic data spatial database and build a simple Intranet web-map interface to this data

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• Develop a strategy to produce a national exposure information system to support DRR and climate change planning





TS Ketsana, Manila

- Descended on the greater Manila area, Laguna and Rizal on 26 Sept. 2009
- Not strong in terms of wind intensity, but 420mm of rain in 24hrs
- 241 deaths and total damage PhP3 billion
- Uncontrolled urbanisation poor planning, insufficient floodways, drainage clogged, infrastructure and settlements encroaching on natural waterways, informal settlers on riverbanks and hazard areas
- AusAID and GA scoping mission (29 Oct 6 Nov), visited technical agencies
- No coordination: key datasets, tools and information required
- Recommended comprehensive program of hazard and risk assessment to improve knowledge











GGIM motivation

- Improve global coordination in the area of geographic information
- No global forum for member states comparable to the UN Statistical Commission - where global geographic information management issues can be discussed
- Due to the global nature of policy challenges and the opportunities offered by the fast development of IT capabilities, there was general support for the idea to create a global forum, supported by an expert committee, to discuss Geographical Information Management issues

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Strengthen national capacity, especially in developing nations







GGIM Status

- As concrete next steps, it was agreed to table a resolution at the UNRCC-AP to seek the mandate of ECOSOC for such a global forum
- 18th UNRCC-AP Resolution VII: Global geographic information management tabled and accepted
- 41st UNSC Decision 10: Global geographic information management tabled and accepted
- UN prepare a report outlining a global vision for GGIM to be presented to ECOSOC and prepare for a possible global forum

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• The 2nd preparatory meeting of the GGIM will be convened 10-11 May 2010 in NY, and will discuss the terms of reference and the modalities of work for the global forum and the Committee of Experts

