

Strengthening Sustainable Land Administration and Management through Geospatial Information in Asia and the Pacific region

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Land is a major source of value in both developed and developing countries. World Bank reported that proportion of land and property could account for between one-half to three-quarters of national wealth¹. Asia and the Pacific is the largest region, and very diverse characteristics in economical, cultural and environmental aspects, which reflect on the complex land systems and its arrangements. Besides, recent rapid economic growth of this region have arose several land issues, challenges and opportunities which included urban growth and tenure, rural land fragmentation, climate change, disaster risk and resilience, women's access to land, indigenous people tenure security, Islamic principles and land tenure and limitations within land administration, land-based financing, land policy and legislation.

Land management is the science of making informed decisions about the allocations, use and development of the earth's natural and built resources. It includes resource management, land administration and its arrangements, land policy and land information management. UNECE defined it as the process of managing the use and development of land resources and the process by which a country's resources are put to good effect². In order to effectively and efficiently support the process of land management, geospatial information is giving the powerful tools that can help to more sustainable land administration and management. Nevertheless, lacks of identifying geospatial information and its best practices affect to disconnect and lock the information gap among land's stakeholders in the process of the land survey, registration, valuation, land use and development.

This paper will demonstrate that geospatial information community has a opportunity to recognise the benefits and major roles to innovate land administration and management through geospatial information technologies, specifically address land problems of Asia and the Pacific region, related national and international activities, critical and emerging technologies and its standard, and propose a conceptual framework for fit-for-purpose land administration and management in a holistic and sustainable manner.

¹ <http://www.worldbank.org/en/results/2013/04/15/land-policy-results-profile>

² FIG Publication No.58, Spatially Enabled Society