UN-GGIM MEMBER STATE - PROFILE

(Pakistan)

Region	South Asia
UN-GGIM Regional Body	UN-GGIM-AP
Participation	Active
Mapping/GGIM Organization	Survey of Pakistan
Address	Faizabad, Murree Road, Rawalpindi, Pakistan
Contact Name	Surveyor General of Pakistan
Position	Surveyor General of Pakistan
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Organizational Features

GIM Program	Pak-NSDI is being implemented by Survey of Pakistan (SoP) with collaboration of key stakeholders to manage geospatial data of the entire country. This GIM Program will help to ensure consistent mechanism for maintenance, dissemination and sharing of geospatial data among all users.
GIM Policy	NSDI established and maintained shall be for development of a system of geospatial databases and data handling facilities, capable of interacting amongst all stakeholders and ensure putting in place design, implementation and maintenance mechanisms for facilitating, sharing, access and responsible for effective use ad management of geospatial data at an affordable cost. All basic data or information comprising geodetic data, gravity data, magnetic data, topographical or geographical data, aerial photographs and all relevant records, both analogue and digital, prepared and possessed by Survey of Pakistan shall be maintained in the or form of a national geospatial database.
GIM Legislation	To regulate surveying and mapping activities in Pakistan

	an act has been passed by the parliament named as Surveying and Mapping Act, 2014.
GIM Strategy/Plan	SoP shall prepare geospatial data, remote sensing and geographical information system applications of the entire country on various scales as advised by the Federal Government and provide above services as a deposit work for a specific area with pre-defined specifications to the Provincial Governments, district and local governments and other clients from public as well as private sector. Survey of Pakistan shall encourage and collaborate research activities in the field of surveying and mapping, remote sensing, GIS and other fields related to the discipline of surveying and mapping, cartography, instrument development and database with national and international organizations. The Survey of Pakistan shall endeavor to upgrade the scientific and technological level in this field and encourage and support any registered organizations and individuals that produce outstanding work in any field of surveying and mapping and related scientific or technological research.
GIM Web address	www.surveyofpakistan.gov.pk
Leadership	Surveyor General of Pakistan assisted by Deputy Surveyor Generals to provide leadership in the management of geospatial information
Staff	SoP has sufficient and qualified staff to handle GIM activities in the entire country.
Specific GIM Budget	Annual budget provided by the federal government
Government Entities	All relevant stakeholders (Public sector)
Private Sector	All relevant stakeholders (Private sector)

Data and Standards

Fundamental Data	Topographic and geodetic data
Availability	Geospatial information is available for sharing and use by the user community
Data Sets	Geodetic data, multi-scale digital topographic data, geographical names, administrative boundaries, satellite

	imagery and aerial photographs
Standards	Geospatial metadata ISO 19115, Standard for geospatial information production, OGC standards for geoweb services
Web/portal services	Metadata catalog has been implemented. Therefore, users can discover what spatial data is available as well as details on content, source, scale and other characteristics of spatial data in order to determine its usability. Presently, the catalog is running on Intranet, while resources are being arranged to make it available via Internet, as well
Data Access policies	Accessible as defined in data classification rules of SoP

Technical Infrastructure

Geodetic Infrastructure	GPS Network A order, AB order, B order, HP leveling network, SBM network and traverse lines
ICT Infrastructure	High end servers, Storage &Archiving System, Optic Fiber LAN & Internet
Hardware Platform	Workstations, High end plotters, Large format scanner (colour) & Colour printers
GIM Software Platform	Proprietary and open source including ESRI & GeoNetwork,

Projects

Project Name	Global Mapping Project (http://www.iscgm.org/)
Organization	International Steering Committee for Global Mapping (ISCGM)
Project Objectives	Provision of seamless global map data
Funding	Voluntary contribution
Duration	08 years
Achievements	Developed and shared Global Map data for Pakistan Version 1 &2

Challenges and Needs

Challenges:

- The concept of GIM and SDI is still in its infancy in Pakistan as is in many countries. So it is a big challenge to raise awareness about the concept of GIM and SDI in the country.
- For effective NSDI implementation, the challenge is to enhance the capacity of the institutions involved in GI production through tailor made trainings.
- Pakistan is low income country, thus it is a challenge to get the share from government exchequer to acquire the latest geospatial technologies and tools.
- Geospatial standardization allows data from one source to be easily used with those from other sources to create richer and more useful products and services. The challenge is implementation of standards by all stakeholders.
- Inter-agency coordination and collaboration play vital role to make consensus, however, it is a big challenge to take on board all the stakeholders.

Needs:

- There is need to get political support from the highest level.
- Capacity building of the individuals and institutions involved in GIM is urgently required.
- Adequate funding is essentially required to procure the latest geospatial technologies and tools.
- There is need of inter-agency coordination and collaboration to support implementation of NSDI for effective GIM in the country.
