

Expert Consultation and Meeting on Enhancing Geospatial Information Management Arrangements and Accelerating Implementation of the Sustainable Development Goals, and the Sub-regional Workshop on the United Nations Integrated Geospatial Information Framework (UN-IGIF) for Central America and neighbouring Latin American countries

Implementing geospatial strategies: challenges and opportunities

Panama City, Panama
1-5 December 2025



Enhancing Geospatial Information Management arrangements Accelerating the Implementation of the SDGs

Sub-regional Workshop on UN-IGIF for the Central America and neighbouring Latin American countries

CUBA

NATIONAL OFFICE OF HYDROGRAPHY AND GEODESY



MSC . REBECCA PARADA BENAVENTE



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Where is your country today in enhancing the management and use of geospatial information?

- IDERC Update
- Offices throughout the country belonging to the GEOCUBA Business Group, responsible for carrying out projects in different specialties (cartography, remote sensing, GIS, cadastre, geodesy).
- Technological advances and project generation
- Use of free software
- Project called Task Life

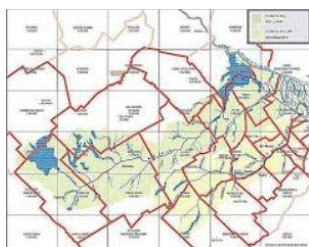


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Where does your country aim to be in the next five years?

- Have a fully implemented IDERC with a centralized web portal, so that state institutions can access, consult and cross-reference geospatial data in an agile manner (examples soil maps, population censuses and health networks on the same platform)
- Complete the migration of all cartography to QGIS with the aim of reducing dependence on expensive and restricted software for Cuba.



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- Use geographic information systems in all government agencies as a daily and fundamental tool for planning and decision-making.



Agriculture



Public health



Climate Change



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What do you see as the main challenges in reaching this “ideal” situation within the next five years?

Continued improvement:

- Technological infrastructure and connectivity for internet access and bandwidth: without it, it is impossible to implement cloud
- Integration of geospatial information generated by different organizations (Physical Planning Institute, Water Resources, Ministry of Agriculture, National Office of Information and Statistics, Geocuba Business Group) and achieving optimal semantic and syntactic interoperability between them.



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- Create a standardized model that allows entities generating geospatial information to work in a uniform and standardized way, taking into account the 9 strategic pathways provided by the Integrated Geospatial Information Framework (IGIF).
- Continue improving curricula at universities, as well as ongoing training in areas such as AI applied to satellite imagery, Big Data, geospatial database management, among others.



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What potential opportunities could help address some or all of these challenges?

- Exploitation of Earth Observation Data (Remote Sensing)

By obtaining freely accessible satellite images, we could monitor agriculture, droughts, changes in land use, and coastal areas.

- Open Source Platforms
- Continue working with QGIS with the aim of reducing dependence on licenses.



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How familiar are you with UN-GGIM, the UN-GGKIC, the IGIF, and the CAP?

UN-GGIM , UN-GGKIC Events and Workshops



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What kind of support would you like to receive from UN-GGIM, UN-GGKIC, or other partners?

- Continue with training workshops to prepare our professionals
- Create working groups with instructors on key topics such as:
 - Software implementation and use
 - Data infrastructure management and operation
 - Satellite data analysis (image classification)

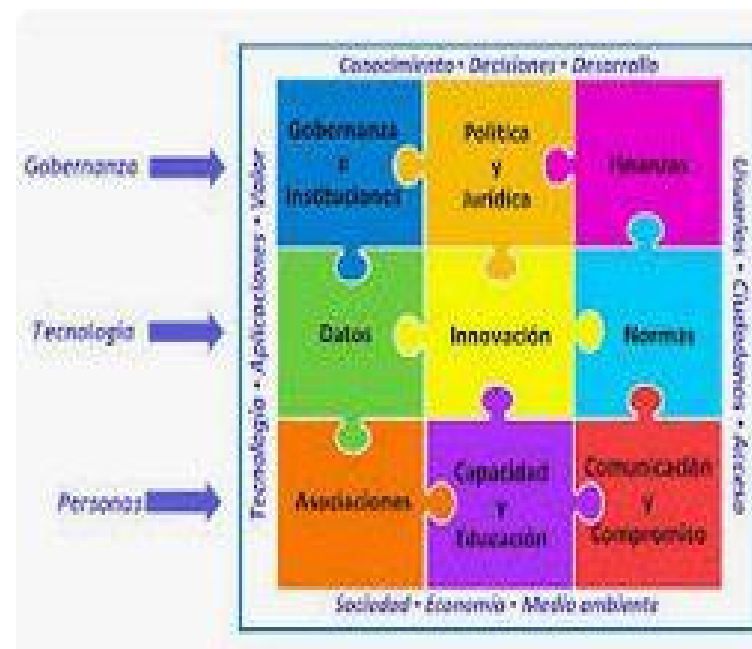


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What kind of support would you like to receive from UN-GGIM, UN-GGKIC, or other partners?

- That they continue to facilitate our participation in events and workshops, so that we can stay updated on everything that is happening with the management of geospatial information and the implementation of the Integrated Geospatial Information Framework (IGIF)

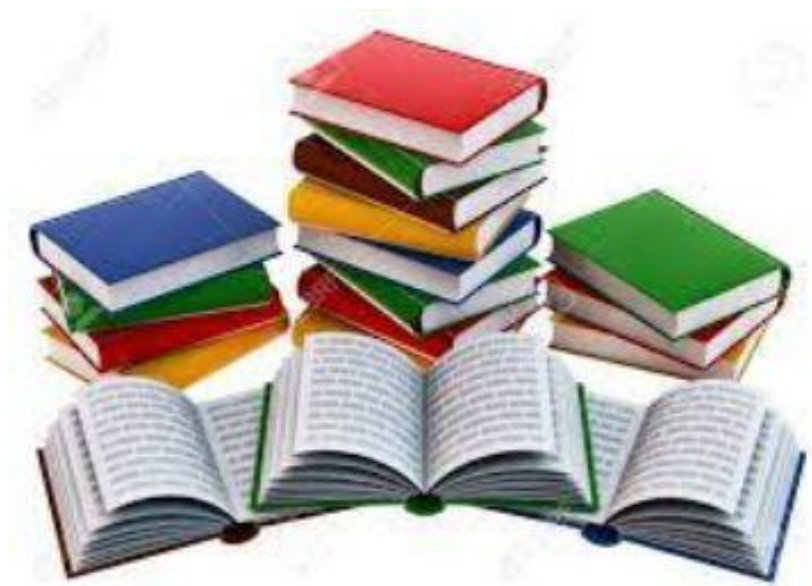


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What kind of support would you like to receive from UN-GGIM, UN-GGKIC, or other partners?

- Continue providing us with technical documents, manuals, webinars, and case studies that can be used by our universities to update and improve their curricula and to prepare new generations on the importance of geospatial information.



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Thanks!



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