

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

Panamá

Autoridad Nacional de Administración de Tierras



AUTORIDAD NACIONAL DE
ADMINISTRACIÓN DE TIERRAS
Instituto Geográfico Nacional "Tommy Guardia"



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

“We are working together to develop a geospatial data policy and strengthen governance—including strategic alignments and progress toward an action plan. Above all, we aim to ensure that our decision-makers are aware of the importance for the country of having a robust geospatial information ecosystem..”

Today we have strategic alignments, mission, vision and clear objectives where we want to go.



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

- Country also plans to establish a robust institutional and regulatory framework that guarantees the governance, sustainability and ethical use of geospatial data, promoting collaboration between the State, academia and the private sector.
- Implementation of the National Geospatial Information Strategy, with a fully operational national infrastructure that integrates data from all public institutions under common standards and interoperable services.
- A unified government geospatial platform is envisaged to support development planning, risk management, public investment and evidence-based decision-making.



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SINIA Geportal Panama's commitment to leading environmental protection

United Nations Charting Panama's Future

CUENCAS HIDROGRÁFICAS Y RED DE ESTACIONES HIDROLÓGICAS

Estación hidrológica Selección N° de cuenca Selección

Estación

SITIOS DE EXTRACCIÓN DE REDES FANTASMA EN LA REPÚBLICA DE PANAMÁ.

Sitios de Extracción

Proyectos de Ingeniería Actualizado al 21-11-25

Proyectos de Inversión Pública

Región Educativa: Seleccionar Región...

Provincia Selección una Provincia Distrito Selección un distrito Corregimiento Selección un corregimiento

Proyectos por Provincia

Grado de Urbanización en la República de Panamá al 2030

Áreas urbanas Cobertura de superficie en km²

| | | |
|-----------------------|-----------------------|----------------------|
| Centros urbanos | Urbano denso | Urbano semidenso |
| 456.4 km ² | 117.7 km ² | 29.7 km ² |

Legenda

Grado de urbanización de la República de Panamá al 2030

Grado de urbanización

- Centro urbano
- Urbano denso
- Urbano semidenso
- Urbano disperso
- Urbano consolidado
- Urbano no consolidado
- Urbano no consolidado / Sin
- Urbano no consolidado / Sin

Degree of Urbanization visualized in a filterable ArcGIS Dashboard.

Sourced from Ministerio de Vivienda Y Ordenamiento Territorial.

Total de Pr 109

Avance Físico d 0%

Costo Estimado \$ 3.84 mil

Costo Modificado \$ 2.55 mil

RESUMEN DE ESPECIES COMUNES EN

OBJETO COMUNES EN

METODOLOGIA

UNEP

AUTORIDAD NACIONAL

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

- Strengthen institutional governance and coordination: Consolidate the Panamanian Spatial Data Infrastructure (IPDE) as an articulating axis between public institutions, guaranteeing leadership, inter-institutional cooperation and compliance with common geospatial policies.
- Ensure institutional and financial sustainability: Guarantee the technical, human and budgetary resources necessary for the sustained implementation of the framework, ensuring its continuity beyond administrative changes.
- Update and maintain fundamental geospatial data: Develop permanent mechanisms for collecting, updating and disseminating essential data (land use, cadastre, hydrography, risks, biodiversity, among others), ensuring their quality and national coverage.



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

- Based on the analysis of strategic pathways, we have been able to identify opportunities... such as:
 - a. Governance: propose public policies based on geospatial information, national action plan, regulatory framework on data production and use.

Our experience across multiple governments allows us to build and visualize how these instruments support and benefit decision-making at any level.

Enables Readiness to Address Data Sharing, as well as relevant topics in the technological field.



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

- Panama is part of the high-level group of... The collaborative work that is done from there has allowed us to discover examples and ways of working from other countries. In addition.

Being invited by UN-GGIM opened the doors for us to start an implementation process with its full support. Entering the SDG program is and has been a fundamental pillar to develop the IGIF. This methodology has been supported by ECLAC, it has reinforced the continuity of these initiatives....



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

Panama has proposed a methodology for the exchange of experiences, it was done through the SDG program was of great help, this can be put into practice.

Practical workshops to delve into aspects, such as: financial recommendations, good practices in data exchange, open or low-cost technology, workflows based on a national action plan, are some examples.

Language can be an obstacle in accessing resources, our recommendation is to achieve greater openness in this area.



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Thanks...



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