Supporting the integration of Statistical and Geospatial Information in Latin America and the Caribbean

Symposium on SDG & Circular Economy

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Outline

**DA13 Project**: Innovative approaches to examine inequality through the integration of different data sources in Latin America and the Caribbean.

**European Union Facility Project**: Strengthening the geospatial capacities of national statistical offices to monitor the 2030 Agenda in Latin America and the Caribbean.

**New CEPALSTAT platform** and its geospatial component.
DA13 project:

Innovative approaches to examine inequality through the integration of different data sources in Latin America and the Caribbean.
Participating countries

- Argentina
- Dominican Republic
- Paraguay
- Ecuador
- Costa Rica
Support the COVID-19 recovery and the implementation of the 2030 Agenda through innovative approaches for measuring inequality, and the identification of vulnerable population groups, using different data sources and their integration with geospatial information.

**Specific objectives**

- Increase capacities to integrate different sources (national accounts, tax information and household surveys).
- Increase capacities to integrate geospatial and statistical data and information.
- Strengthen capacities to produce disaggregated statistics (using Small Area Estimation techniques).
Increase capacities to integrate geospatial and statistical data and information (products)

1. Adoption of geocoding methodologies.
2. Strengthening capacities in the use of common geographies.
3. Implementation of policies, standards, good practices and technologies.
4. National agreements between NSOs and NGIAs to establish a national geostatistical framework.
5. Roadmap to integrate statistical and geospatial information.
Needs assessment
• UN-GGIM global survey response analysis.
• Technical meetings.

Technical assistance
• Institutional strengthening.
• Capacity building.

National workshops
• Promote coordination.
• Establish a roadmap.

Regional workshop
• Present the results of the project and good practices for the successful implementation of the GSGF.

Timeline DA13 project

Current stage
July 2021

June 2024
European Union Facility Project:

Strengthening the geospatial capacities of national statistical offices to monitor the 2030 Agenda in Latin America and the Caribbean.
Main objective

Development of a technological platform for the management and visualization of statistical and geospatial data, ensuring its integration and complementing it with georeferenced information.

Specific objectives

- Improve access to geostatistical data produced by National Statistical Offices.
- Facilitate the integration of NSOs data with public and non-governmental sector geospatial information.
- Support decision-making and the elaboration of public policies.
Custom statistical geoportal

1. Consistent with the initial diagnosis.
2. Adapted to the requirements of each ONE.
3. Interoperable with pre-existing architectures.
4. Support for internal statistical data management processes.
5. Interoperable with other solutions that implement open standards.
6. Flexible to support additional needs.
Timeline Facility project

**Diagnosis.**
- Diagnostic meetings.
- Sending executive summaries.

**Design.**
- Definition of technological components to be developed.

**Development.**
- Software development.
- Testing pre-developed components.

**Implementation.**
- Installation of components into the infrastructure of the National Statistical Offices.
- Training.

**Monitoring.**
- Periodic monitoring.
- Continuous support.

- Current stage
- Stage completed

YEAR 1
- 2021

YEAR 2
- 2022
- 2023

YEAR 3
- 2024
CEPALSTAT: New CEPALSTAT interface and its geospatial component.
CEPALSTAT NEW INTERFACE

- Better browsing experience and easier access to statistical information.
- New content and functionalities for data integration and visualization.
- Diversification of products to serve users with higher demands.
- Integration of International Databases.
- Integration of statistical and geospatial information: NEW GEOPORTAL.
- In line with the principles of the United Nations data Strategy.
Consistent with the global guidelines of the Global Statistical and Geospatial Framework (GSGF) and the IGIF generated by the Statistical Commission and the UN-GGIM.
CEPALSTAT GEOPORTAL: Standards and Technology

- Open Geospatial Consortium standards (WMS, WFS, WPS)
- ISO 19.115 Metadata
- Raster tiles and Vector Tiles for faster navigation
- SDMX spatial features in the roadmap

GEOSPATIAL TECHNOLOGY

- Webmapping library: MapLibre JS
- Backend framework: Geonode
- Geospatial database: Postgres / PostGIS
- Metadata Catalog: GeoNetwork
- Desktop GIS: QGIS
More than 1 200 indicators
6 500 000 unique records
300 external geographical layers
4 600 territorial units
6 000 technical notes
23 000 disaggregations
800 institutional sources of information
700 topics and subtopics (portal topic tree)

600 000 database queries per month
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