Ministerial Segment

Geospatial activity in Mexico: milestones and new paradigms

5th High Level Forum on United Nations Global Geospatial Information Management
Implementing the SDGs: The Role of Geospatial Technology and Innovation

Julio A. Santaella
President of INEGI
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New technologies are leading to an exponential increase in the volume and types of data available. Society demands MORE information: NSOs and NGIs must be up to the new challenges.
In this new data ecosystem, the integration of geospatial information with statistics is no longer just desirable, but indispensable.
How is this integration done in Mexico?

How does it help monitoring the SDGs?
Since 1983, this integration occurs naturally in Mexico, as INEGI is the institution responsible for the generation of both statistical and geographical information.
Mexico’s coordination framework to produce statistical & geographical information

Coordinated by INEGI, Public Entities are organized in 4 Subsystems of Information that interact with each other.

- Geographical, Environmental, Territorial & Urban Planning
- Sociodemographic
- Economic
- Government, Public Security & Law Enforcement

Each Subsystem has Specialized Technical Committees (STCs) that set technical standards, guidelines, methodologies and processes.
The STC on SDGs, headed by the office of the Presidency, coordinates the efforts to measure and monitor the progress of the 2030 Agenda
2030 Agenda: a State undertaking

The National Council is conceived as a State-wide long-term commitment

Mexico’s National Council for Sustainable Development and 2030 Agenda was installed on April 26, 2017
The Office of the Presidency of the Republic along with INEGI launched an online platform to monitor the progress of SGDs. It currently has 79 indicators & is continuously updated.
Indicator 1.4.1 (TIER 3) - Proportion of the population living in households with access to basic services

Input - National Housing Inventory
Indicator 15.2.1 (TIER 2) - Towards a sustainable forest management

Grijalva – Usumacinta basin

Input - Information on land use and vegetation
Significant steps have been taken to make the most of the integration of geospatial and statistical information, but there is still a long way to go.
We must establish a clearly defined roadmap in order to achieve our goals.

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<th>2018</th>
<th>2024</th>
<th>2028</th>
<th>2030</th>
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<tbody>
<tr>
<td>Geospatial OpenData</td>
<td>BigData linked with geospatial information</td>
<td>Develop tools to facilitate the use of geospatial information</td>
<td>Participatory mapping</td>
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The use of Big Data for monitoring SDGs, a tool yet to be fully exploited
Social networks and millions of devices

- GPS trackers
- mobile phones
- air quality sensors
- traffic cameras
- credit card POS
- IOT

generate information at very low cost
Potential use example:

Origin – Destination Survey

This kind of surveys are among the most challenging for official statistics

Home interview survey / Road side survey VS GPS trackers

SDG INDICATOR
11.2.1 (TIER 2) Proportion of population that has convenient access to public transport by sex, age & persons with disabilities
The world needs definitions

Who do Geospatial Big Data belong?

Information vs privacy dilemma
NSOs & NGIs

Partnerships with third parties
IT developers, telcos, think tanks, information generators or holders, etc.
Final remarks

• The 2030 Agenda is not only a current challenge but will remain challenging us in the future

• Involvement of third parties and partnerships is critical to speed up the process and boosts NSOs and NGIs efforts
• Mexico is fully committed with the 2030 Agenda
• Let's make the most out of the opportunities new geospatial technologies offer to official statistics and geospatial information
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