Importance of Earth Observations in national statistical systems Integrated geography and statistical expertise INEGI

The Role of Earth Observations in Developing Indicators for the Post-2015 Development Agenda: Starting a Dialogue

Side Event

February 27th, 2015



Content

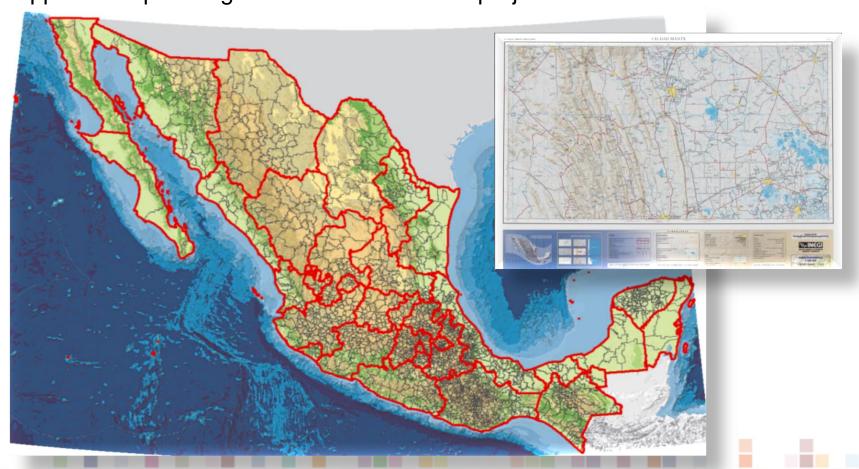
- Cartographic Database
- Digital Map of México
- Geomatic Solutions for Censuses and Surveys
 - National Statistical Directory of Economic Units (DENUE)
 - National Housing Inventory
 - Environmental Information
 - Environmental Statistics System
- Invitation to upcoming events



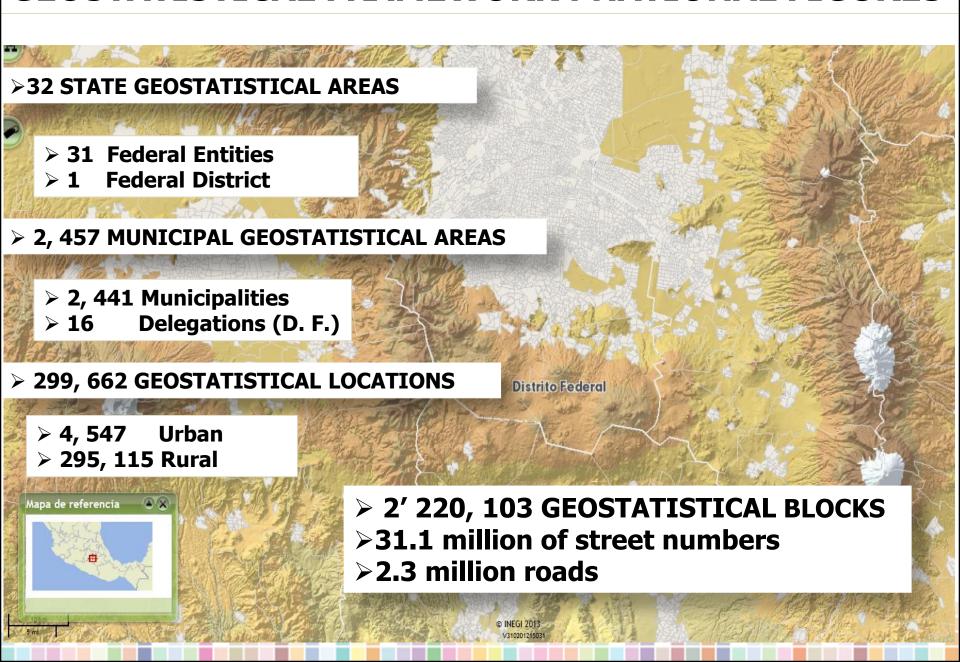
Cartographic Database

Geostatistical Framework

Our National Geostatistical Framework, along with the Topographic Map of Mexico, create the Cartographic Database of México (BCU) on which INEGI supports the planning of various institutional projects.



GEOSTATISTICAL FRAMEWORK: NATIONAL FIGURES



Cartographic Database

The BCU is the database where all updated information from the Federal Government and National Institutions is uploaded, so it can be shared













Base Cartográfica Única

Homologation of catalogs and creation of a Single Cartographic Base

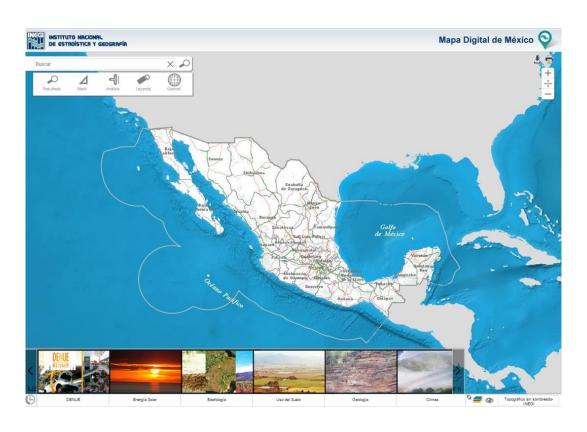
Digital Map of Mexico (MDM) Version 6

http://gaia.inegi.org.mx/mdm6/



Digital Map of Mexico

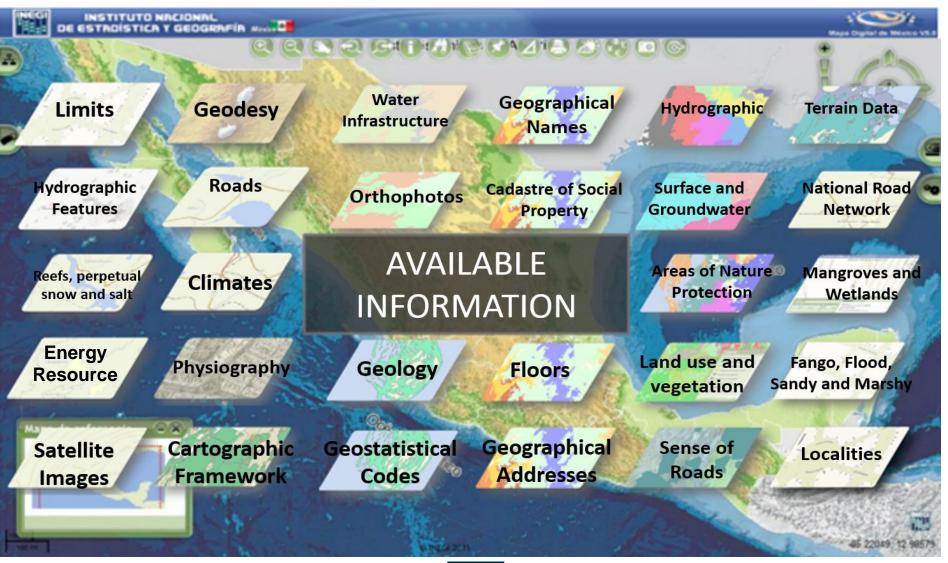
Allows for the visualization and analysis of geographic and georeferenced statistical information. It offers 208 vector data layers, with more than 71 million geographic objects and 4 raster layers covering the whole country.



Benefits:

- ➤ Adaptable user Platform
- ➤ System implemented with international standards
- ➤ No additional commercial software licenses required
- ➤ Based on robust modules of open source software

Digital Map of Mexico



INSTITUTO NACIONAL

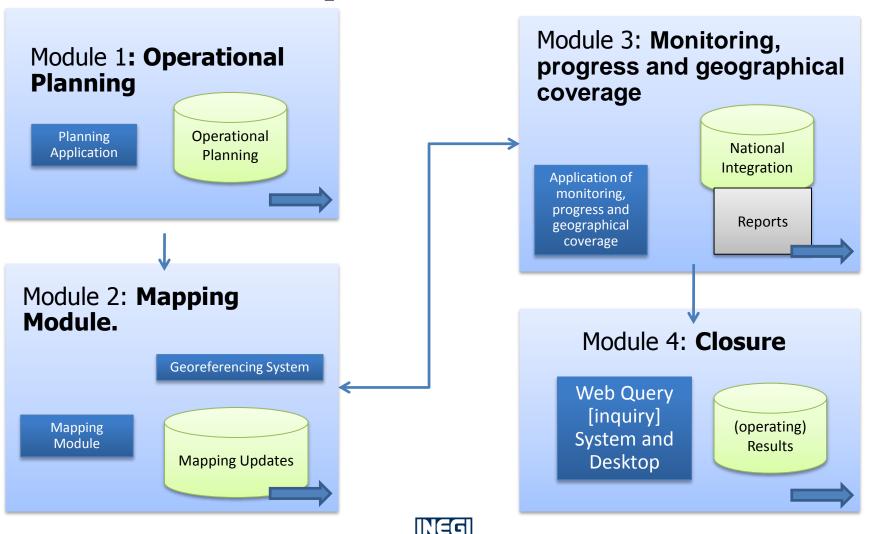
DE GETODISTICO Y GEOGRAPHIA

208 vector data layers, with more than 71 million geographic objects

Geomatic Solutions for Censuses and Surveys

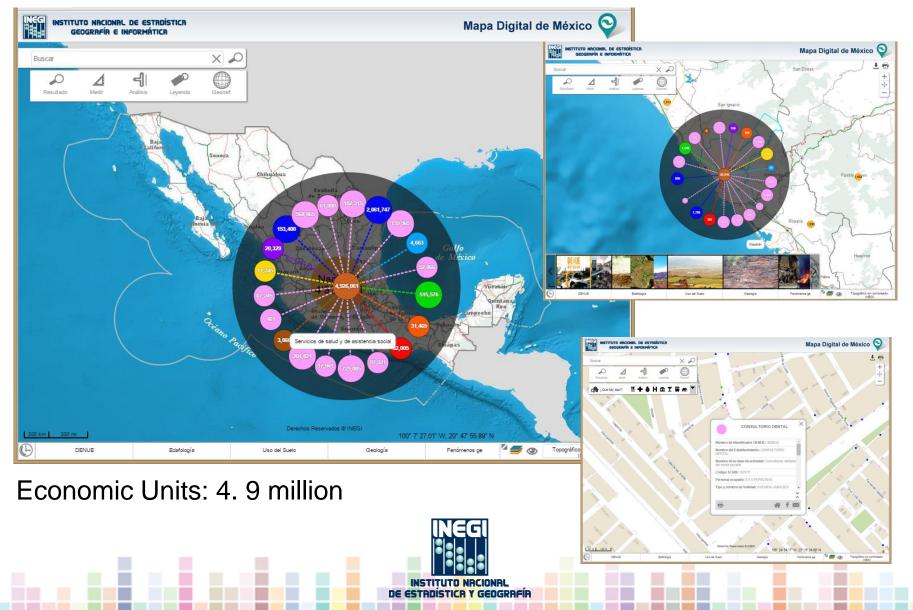


Census Operational Process

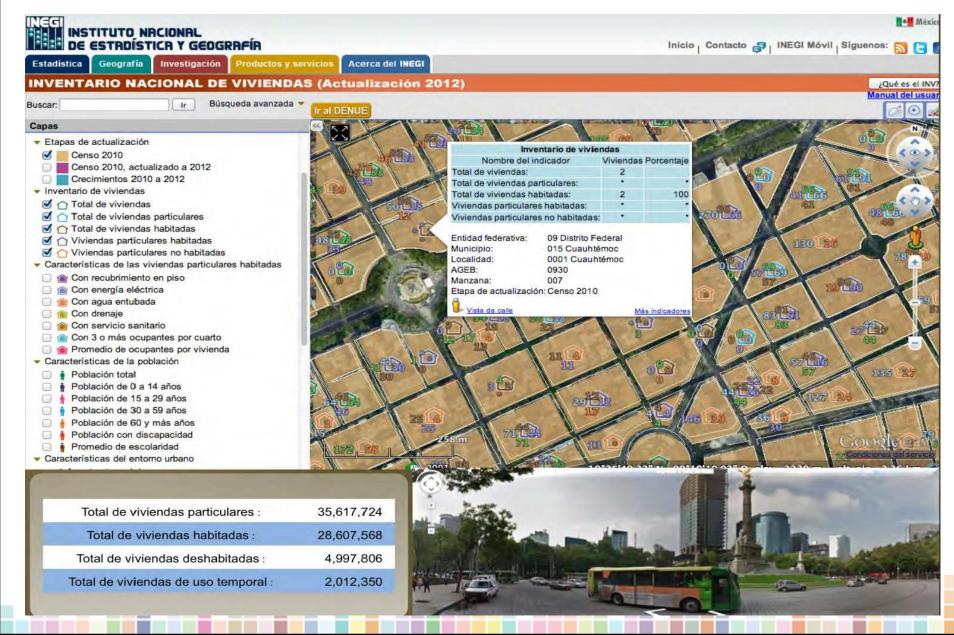


DE ESTADÍSTICA Y GEOGRAFÍA

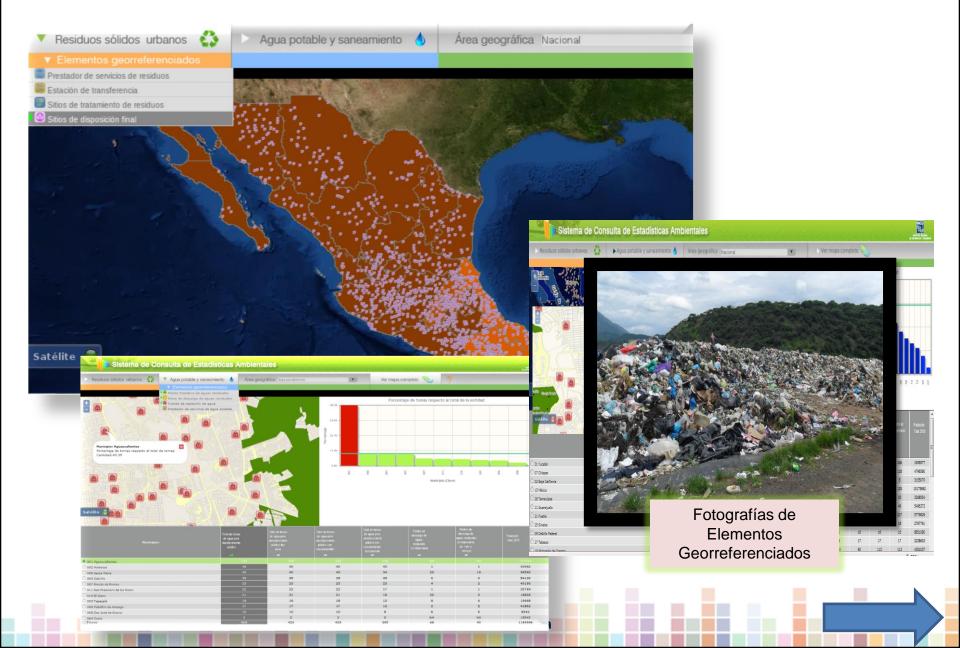
National Statistical Directory of Economic Units (DENUE)



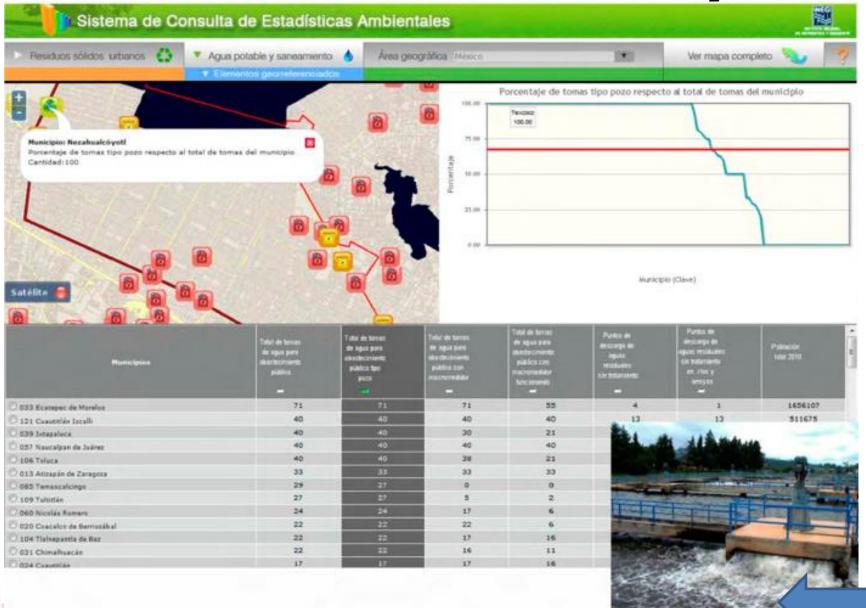
National Housing Inventory



Environmental Information



Environmental Statistics System



INEGI's responsibility for producing and integrating Statistical and Geographical Information in Mexico contributes to the creation, analysis & evaluation of Indicators for the Post-2015 Development Agenda





INVITATION

On November 9th-13th 2015, Mexico will host 4 important events related to Geospatial Information:

Latin America Geospatial Forum 2015

2nd Session of UN-GGIM:Américas

GEO XII Plenary Session

2015 GEO Ministerial Summit - Mexico City







See you in México!



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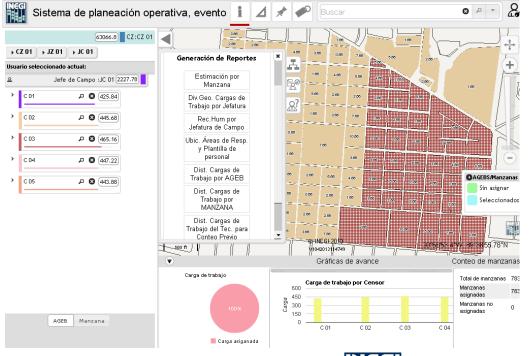
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I. Operational Planning

The Operational Planning module is based on the **Digital Map of Mexico.** This web application optimizes the operational planning of the event by assigning control sections of graphic form, and managing operating figures and graphical assignation of



weekly work with a systematic visual monitoring of control sections, with a constant data backup every 15 minutes.

Workload Distribution for each Censor

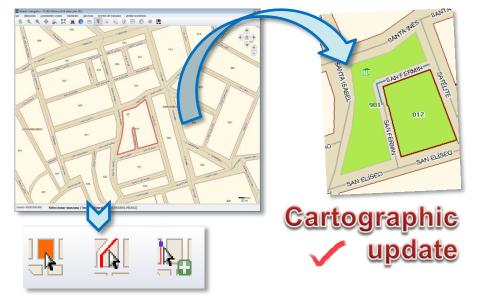


II. Mapping Module

The **Mapping Module**, also based on the Digital Map of Mexico, is a local/movil Cartographical application, made to capture the georeferenced phenomenon, as well as map updates detected in the census operation in a GIS type tool of a particular purpose.



Works on movile devices



At the end of the process, all the cartographic updates made on the field are verified *In-situ*, so they can be updated definitely at the **Cartographic Database.**



II. Mapping Module

Aplications

- To create and modify the mapping efficiently, easily and quickly to collect information in an accurate and complete way (merge or split blocks, roads, rural localities-creation, service-creation, or modifying services).
- Allows the capture of land data, blocks, services, and roads to keep updated those databases that require it.
- To integrate correctly the information generated.
- To assist in field operational stages of the census, to facilitate data collection.





III. Monitoring, progress and geographical coverage

The tracking system, is a web application that allows the integration of information and facilitates the monitoring of progress and geographical coverage by using the tools that allow a better analysis of the integrated information.



It Displays in a graphical form the advance and coverage of the census by blocks, AGEB and Localities.

The packages are integrated consistently, so that once it reaches the central server, the system is updated with a delay of minutes



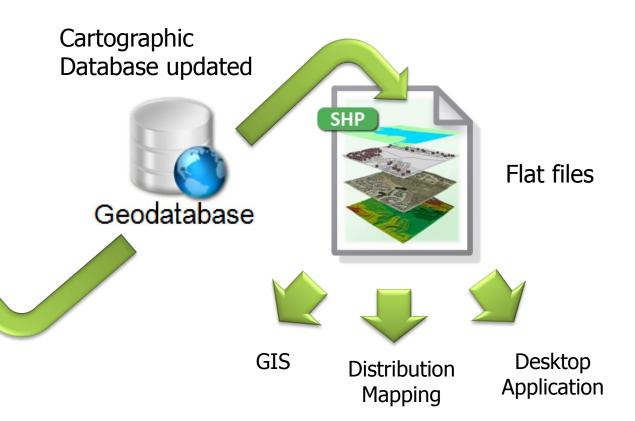


IV. Closure Two Sides



Web: Census's

Atlas



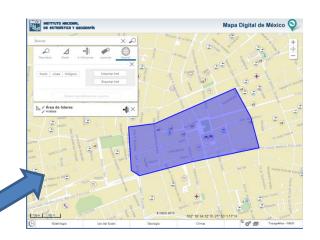


IV. ClosureSpatial Analysis example:



You can create influence areas

You can download it in KML



You can make crossings with other layers of information





IV. Closure

And you can quantify the information in the analysis area

