

Impact of Geospatial Information in Mexican Economy and Society

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Geospatial World Forum 2015



INSTITUTO NACIONAL
DE ESTADÍSTICA Y GEOGRAFÍA

Key elements characterize the production of information in Mexico

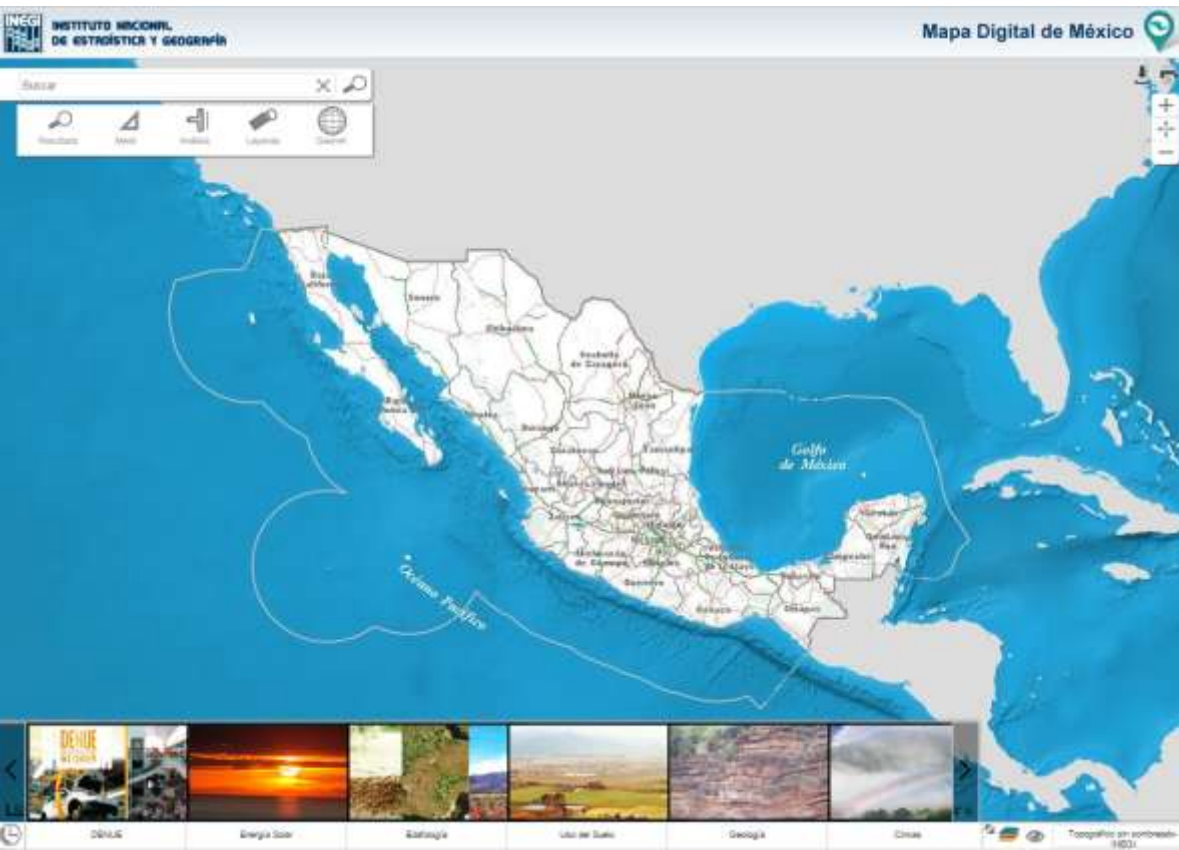
1. INEGI's autonomy
2. Statistical and Geospatial information responsibilities in the same institution.
3. The establishment of The National System of Statistical and Geospatial Information



Digital Map of Mexico

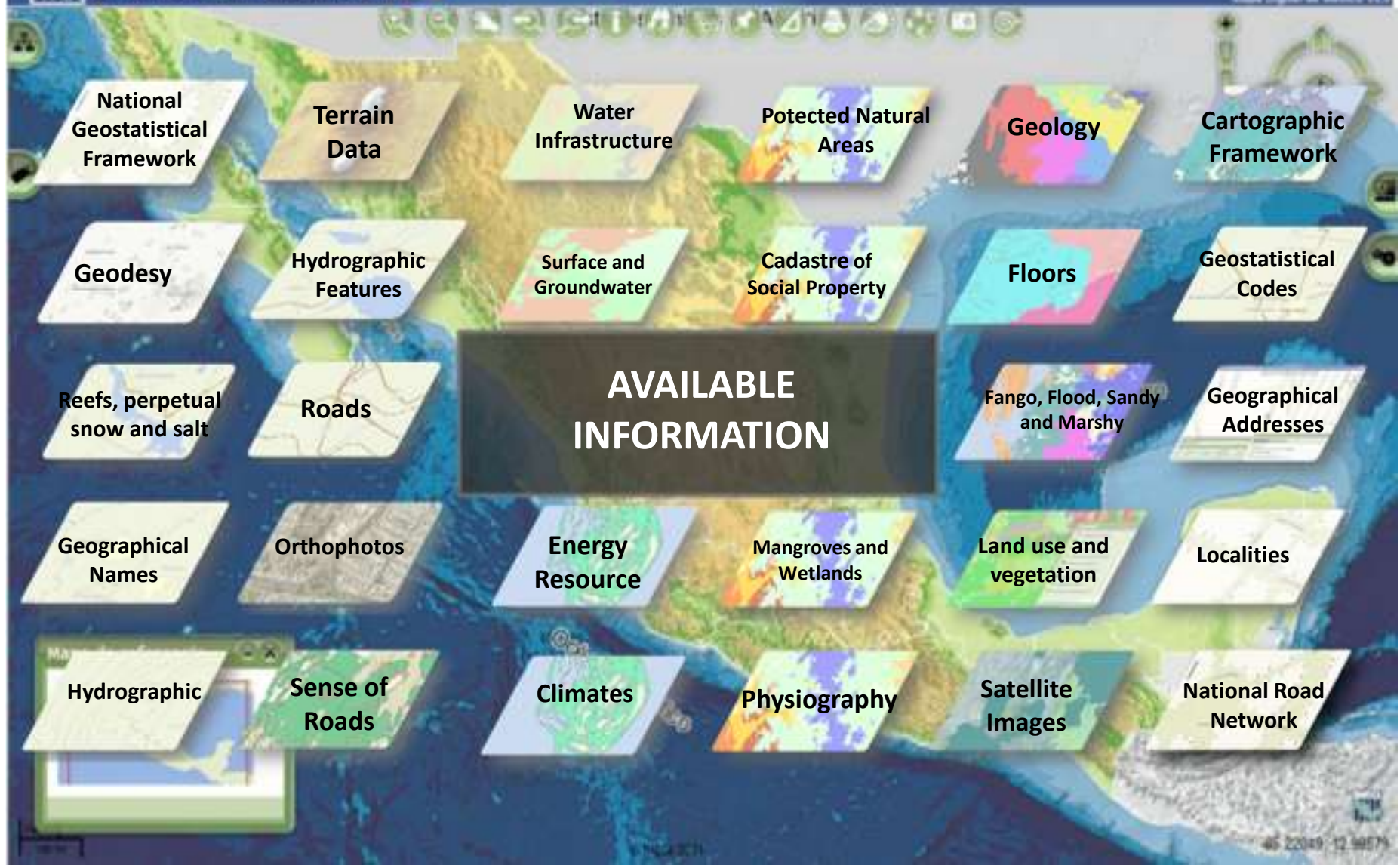
The National Statistical Framework and other 207 data sets, conform the Base Map of Mexico which is available with all this open source information, through the Digital Map of Mexico <http://gaia.inegi.org.mx/mdm6>

It allows the visualization and analysis of geographic and georeferenced statistical information, offering 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
- Not require additional commercial software licenses
- Based on robust modules of open source software



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



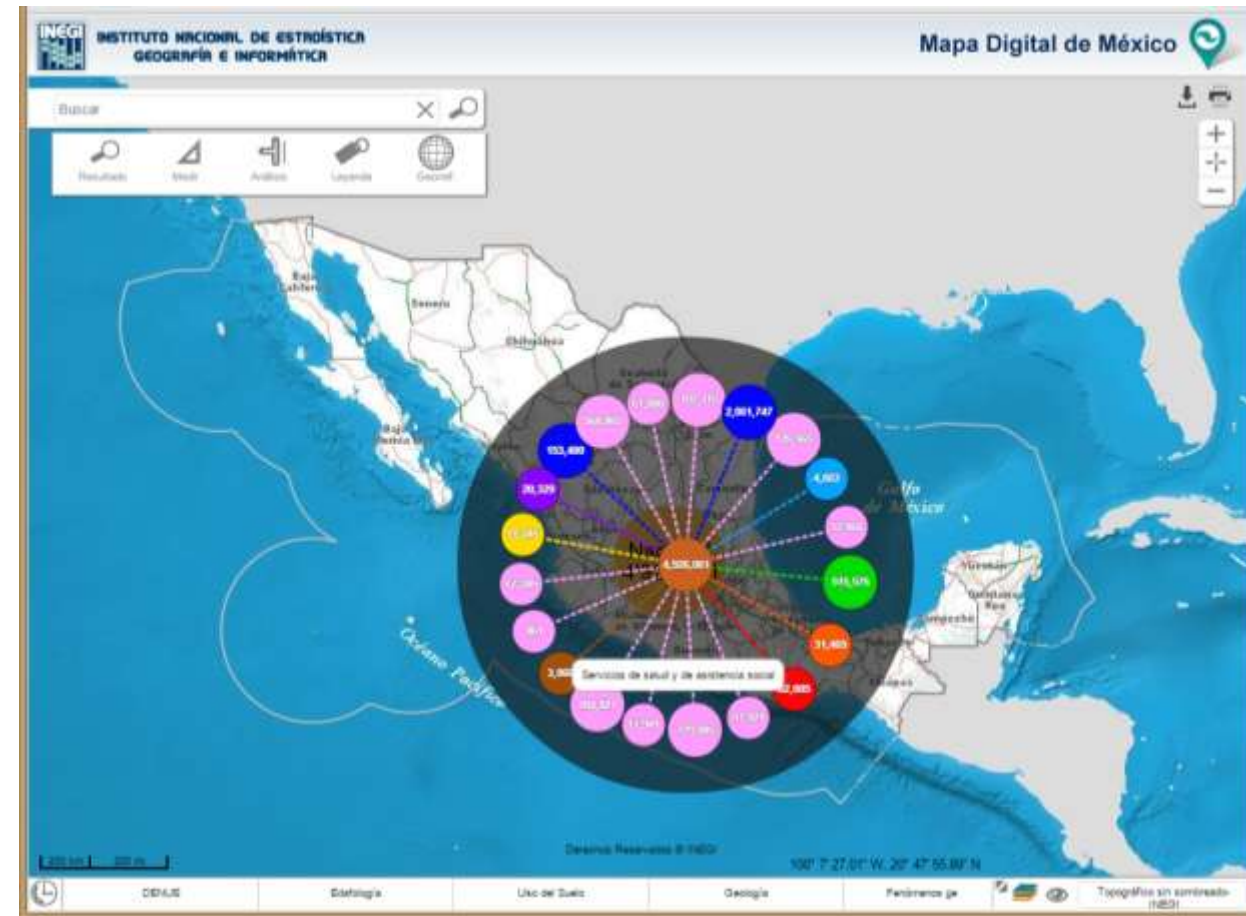
Economic Impact of Geospatial Information



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Digital Map of Mexico

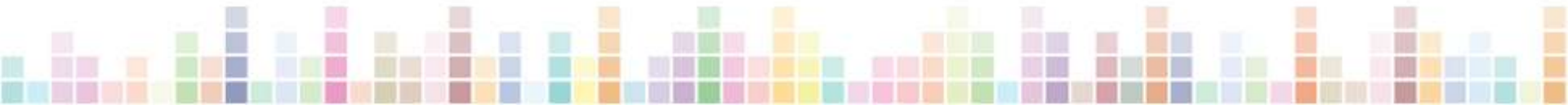
Economic Unit Georeference (DENUE)



Mazatlán




4.9 million Economic Units



Agricultural Information Consultation System

Consultation System with Agricultural Census Information in thematic maps and information tables which integrates statistical with geospatial information from the production units, classified by the of North American Industry Classification System.



The image displays a screenshot of the SCIGA (Sistema de Consulta de Información Geoestadística Agropecuaria) web application. The interface is divided into several sections:

- Header:** Includes the INEGI logo and the text "INSTITUTO NACIONAL DE ESTADÍSTICA Y GEOGRAFÍA México".
- Navigation:** A menu bar with options like "Archivo", "Edición", "Ver Favoritos", "Herramientas", and "Ayuda".
- Map:** A central map of Mexico showing state boundaries and names. A toolbar with various icons for map navigation and data interaction is positioned above the map.
- Information Panel (Left):** Titled "Presentación", it contains four icons representing different agricultural products (corn, wheat, sugarcane, and a tree). Below the icons, the text reads: "El Sistema de Consulta de Información Geoestadística Agropecuaria (SCIGA) ofrece información del Censo Agropecuario 2007, en mapas temáticos y cuadros informativos, que conjuntan la información estadística con el espacio geográfico en que se encuentran las unidades de producción clasificadas según el Sistema de Clasificación Industrial de América del Norte (SCIAN)". At the bottom of this panel, there are links for "Ver tutorial" and "¿Qué es el SCIGA?".
- Footer:** The bottom right corner of the map area shows the copyright "© INEGI 2011" and the coordinates "-106.77758, 28.52321".

Risk Atlas



The Risk Atlas is able to simulate disaster scenarios, make recommendations for timely decision-making and establish effective prevention and mitigation.



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The Grid

Master grid of 5 km x 5 km that maintains uniform sampling points over time.

78,008 points for Mexico

Example of use:

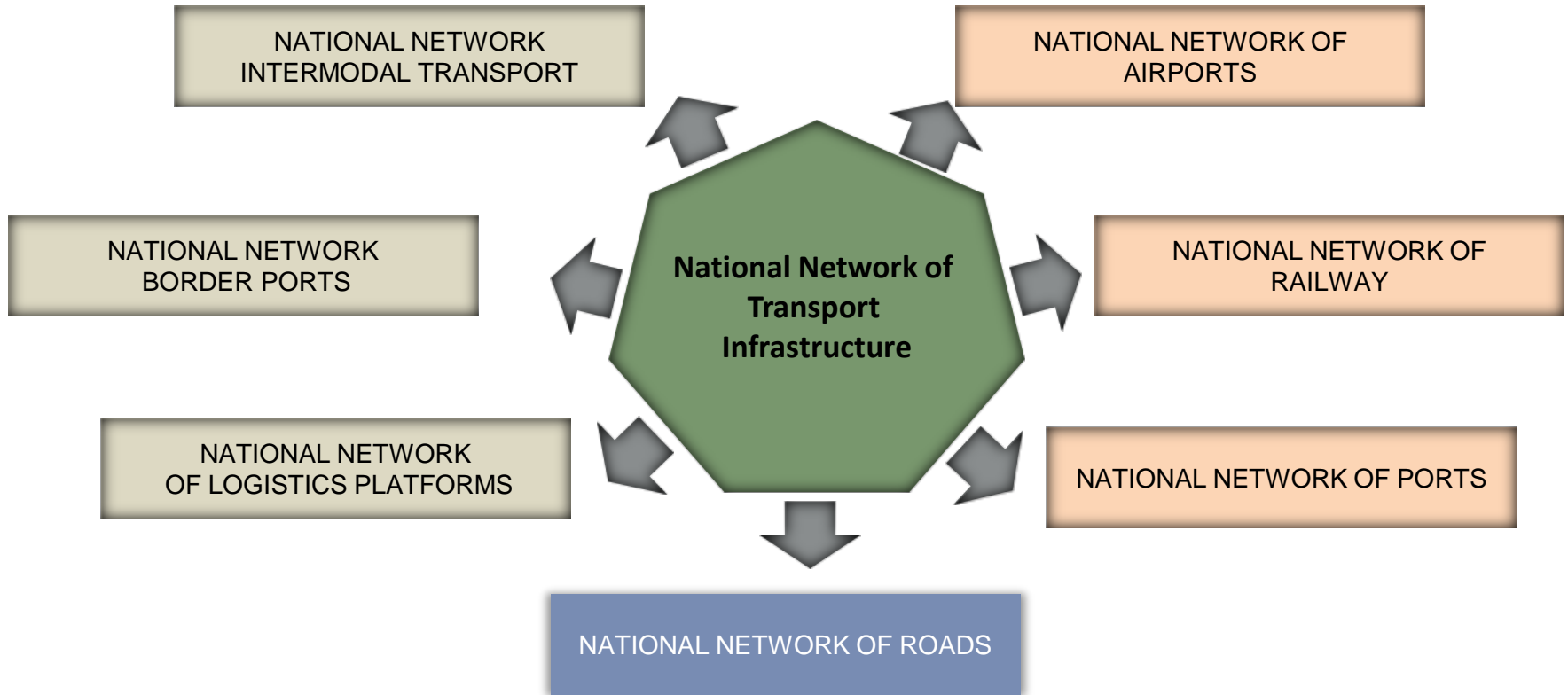
- Exploration and exploitation of energetic resources.
- Harmonization of cadastral information



Satellite Imagery



National Network of Transport Infrastructure



Social Impact of Geospatial Information

Social Impact of Geospatial Information



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Digital Map of Mexico

Population Census Information System



The Census Information Consultation System (SCINCE), allows the user to make queries on sociodemographic information from the Population and Housing Census 2010 on maps, at state, municipality, locality and block levels.

Allows to see where the main necessities of the country are.

Digital Map of Mexico

National Housing Inventory

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INVENTARIO NACIONAL DE VIVIENDAS (Actualización 2012)

¿Qué es el INVI? Manual del usuario

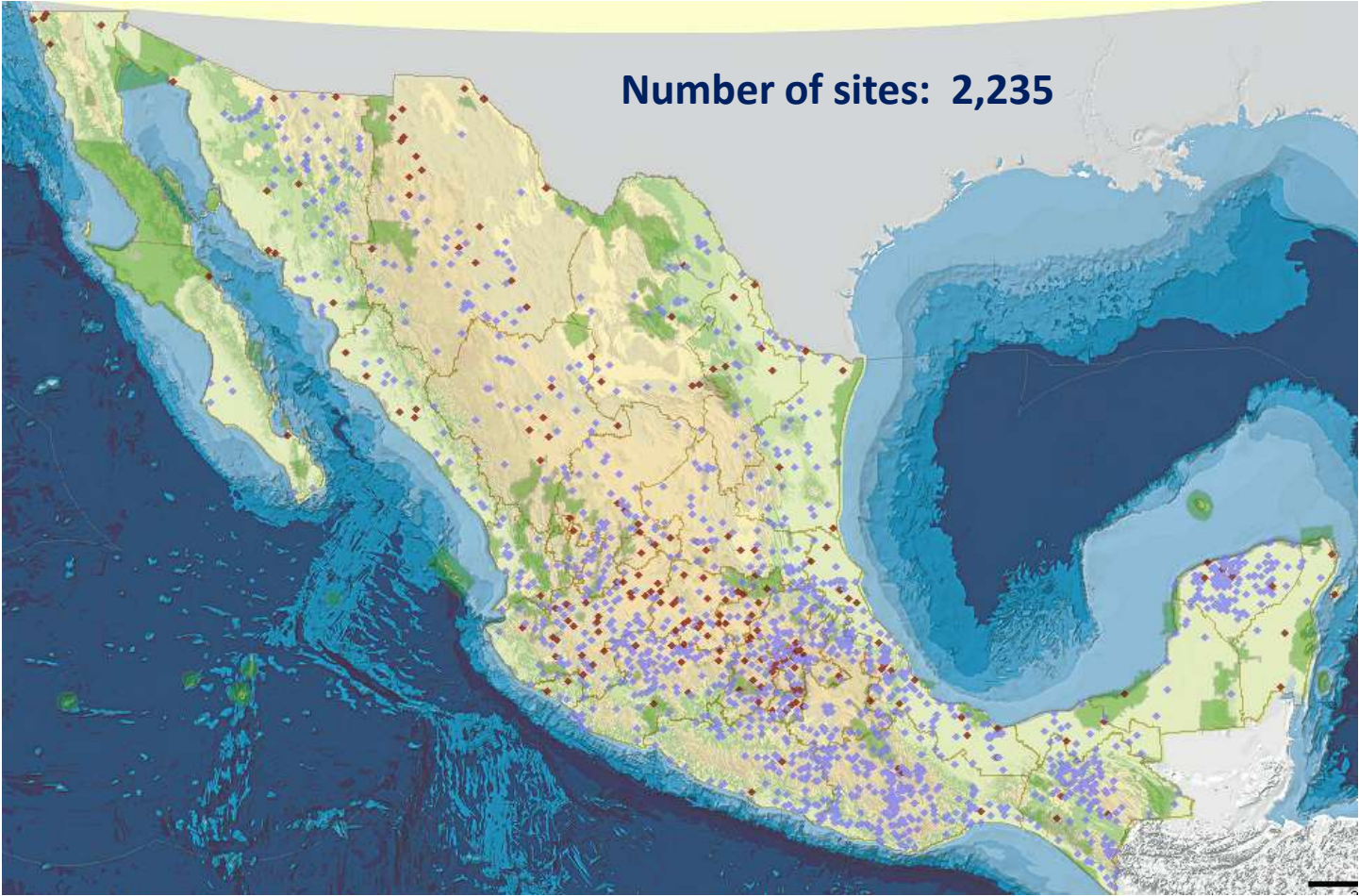
Buscar: [] Ir Búsqueda avanzada Ir al DENUE

Capas

- Imágenes del territorio
 - ▼ División geográfica
 - ▶ División geoestadística
 - ▶ Localidades
 - ▶ Topografía
 - ▶ Recursos naturales
 - ▼ Etapas de actualización
 - Censo 2010
 - Censo 2010, actualizado a 2012
 - Crecimientos 2010 a 2012
 - ▼ Inventario de viviendas
 - Total de viviendas
 - Total de viviendas particulares
 - Total de viviendas habitadas
 - Viviendas particulares habitadas
 - Viviendas particulares no habitadas
 - ▼ Características de las viviendas particulares habitadas
 - Con recubrimiento en piso
 - Con energía eléctrica
 - Con agua entubada
 - Con drenaje
 - Con servicio sanitario
 - Con 3 o más ocupantes por cuarto
 - Promedio de ocupantes por vivienda
 - ▼ Características de la población
 - Población total
 - Población de 0 a 14 años
 - Población de 15 a 29 años
 - Población de 30 a 59 años
 - Población de 60 y más años
 - Población con discapacidad
 - Promedio de escolaridad
 - ▼ Características del entorno urbano

Provides population indicators, number of properties and their characteristics; information down to block level in urban cities; Information of urban infrastructure this contributes for the better understanding of the quality of life of the citizens and more informed public policies.

Digital Map of Mexico



- National Protected Natural Areas
- Final disposal sites of municipal solid waste



Social Programs Georeferenciation

The location of the social programs beneficiaries allows the Federal Public Administration to identify a receptor family of one or more governmental social programs. This is a useful tool for the appropriate control and transparency of the public resources used on these programs.



INEGI is working with the Ministry of Social Development to georeferenced the National Register of Beneficiaries.

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