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Strategy, policy, economic, and institutional issues

Key Elements of the Geographical Information System of Mexico*

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Key Elements of the Geographical Information System of Mexico...

- The creation of the National Statistical and Geographical Information System.
- The autonomy of INEGI.
- The integration of a General Directorate of Geography and environment.
- The synergy between statistical and geographical information.
- The planning scheme.

The creation of the National Statistical and Geographical Information System.

Article 26th of the Mexican Constitution

- Includes the creation of a National Statistical and Geographical Information System which generates data that will be considered official and mandatory for the Federation, States, Federal District and municipalities.
The National Statistical and Geographical Information System

Is integrated by a group of units organized in Subsystems, coordinated by INEGI and operated through the National Information Network.

The objective of the System is to produce and disseminate Information of National Interest.

Who participates in the System?

- Public administration (federal and state) with competences to develop statistical and geographical activities or have administrative records that allow to obtain information.
- When INEGI generates information it is then considered as an information unit in accordance to the System’s Law.

National Interest Information

- The National Interest Information must satisfy the four following criteria:

  • A. Refers to the following issues, groups of data or indices:
  • B. Results necessary for the design and enforcement of the public policies.
  • C. Deregulated regulatory and productivity.
  • D. Disseminated through scientifically sound methodology.

  - Population and demographical statistics
  - Systems of accounts
  - Employment
  - Income distribution and poverty
  - Public security and justice
  - Government
  - Economic activity
  - Tourism
  - Water
  - Territorial
  - Rural and urban population
  - Land registry
  - Environmental
  - Natural resources
  - Housing

How is the System organized?

- The Board
- National Advisory Council
- National Information Subsystems managed by Executive Committees.
- Specialized Information Committee: thematic, regional, special, permanent or temporary.
Subsystems

The State Units are organized in the following four Subsystems, that are coordinated by the Vice-presidents in their Executive Committees:

• Demographical and Social Statistics.
• Economic Statistics.
• Geography and Environment.
• Government, Public Security and Justice Statistics.

Specialized Technical Committees of the Geography and Environment Subsystem

Specialized Technical Committee of Information:

• on Water Field.
• on Atmosphere and Climate Field.
• on Use of Land, and Vegetation and Forest Resources Field.
• on Basic Geographical Information.

The Autonomy of the National Institute of Statistics and Geography (INEGI)

In accordance with the above mentioned constitutional article, INEGI is a public agency responsible for regulating and coordinating the National Statistical and Geographical Information System.
**Competences**

1. Coordinating and regulating the System.
2. Producing National Interest Information.
3. Providing the Public Information Service.

**General Directorate of Geography and Environment**

**How we are organized**

**GEOGRAPHIC DATA GROUPS**
- Natural Resources and Climate
  - Geographical Names
  - Cadastre
  - Topographic
  - Digital Elevation Model
  - Boundaries
  - Geodetic Reference Frame

**ENVIRONMENTAL INDEXES**
- Air
- Water
- Soil
- Flora
- Fauna
- Hazardous Waste
- Solid Waste
The synergy between Statistics and Geography

Link among geographic and statistical data
- Geographical data groups and environmental indexes
- Economic data
- Demographic and Social data

Geostatistical Framework

Link between geographic and statistical data
Help the identification of routes and control the coverage of the National Censuses and Surveys conducted by INEGI.

Link between geographic and statistical data
Health and geospatial information link
**Link between geographic and statistical data**

**IRIS**
Spanish acronym for a referenced geospatial information integrated to a system (Información Referenciada geoespacialmente Integrada en un Sistema)

- Development by a group of Mexican technician highly trained
- To promote and easily use, analysis, integration and interpretation of the national information
- Include geographical and statistical information
- Technical support for decision makers.

**The Planning Scheme**

- Geospatial Information System to promote and make easy use, analysis, integration and interpretation of the electoral national information
- Include geographical and statistical information about districts and electoral sections.
- Geomatic solution contain:
  - II Count of Population and housing 2005 Information (INEGI)
  - Frame of the states, districts and sections electorates (IFE)
  - Topography scale 1:250 000 series III (INEGI)
  - IRIS 4.1 Geospatial information integrated to a system (INEGI)
- Technical support for decision makers.

**INEGI’s short, medium and long-term programs.**

- Strategic Program of the National Statistical and Geographical Information System. (24 years).
- National Statistical and Geographical Program. (6 years).
- Annual Statistical and Geographical Program