



## **Key Elements of the Geographical Information System of Mexico**



## **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 26<sup>th</sup> 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.




## National Interest Information

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

| A. Refers to the following issues, groups of data or index: |                              |   |  | B. Results necessary for the design and evaluation of the public policies. |
|---|------------------------------|---|--|--|
| Population and demographical dynamics                       | Systems of National Accounts | Atmosphere<br>Biodiversity                        | International coast limits, state and local limits                     |  |
| Health  | Financial Information        | Water<br>Soil                                     | Continental, insular and underwater relief data                        |  |
| Education   | Prices                       | Flora   | Land registry data, topographical data, natural resources and climate. |  |
| Employment  | Labor                        | Fauna   | Geographical names   |  |
| Income distribution and poverty                             | Science and technology       | Toxic and solid waste<br>radioactive<br>reference |  |  |
| Public security and justice                                 |                              |   |  |  |
| Government  |                              |   |  |  |
| Housing   |                              |   |  |  |


C. Generated regularly and periodically.

D. Elaborated through scientifically proved methodology.



## 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.



## 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)




## 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.

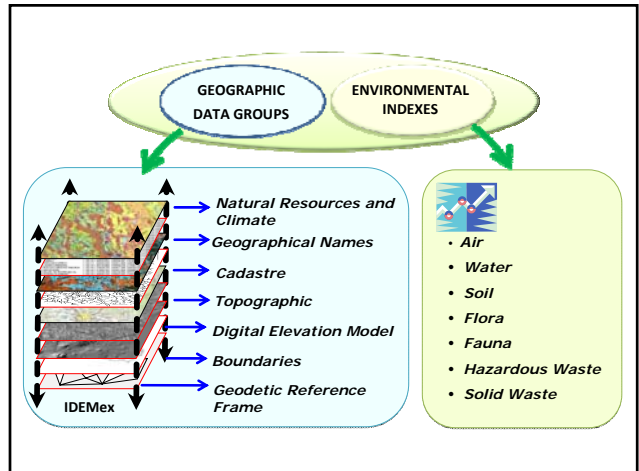
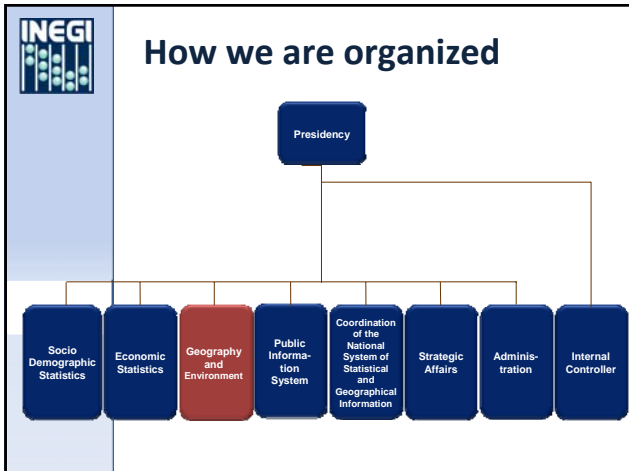



## Competences

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

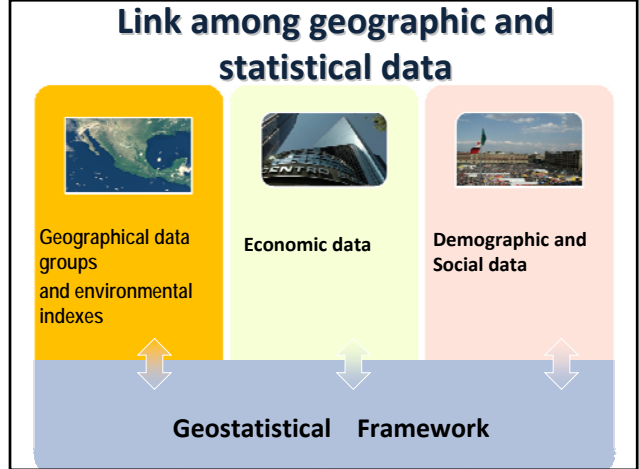



## General Directorate of Geography and Environment











# The synergy between Statistics and Geography

## Link between geographic and statistical data

Help the identification of routes and control the coverage of the National Censuses and Surveys conducted by INEGI.

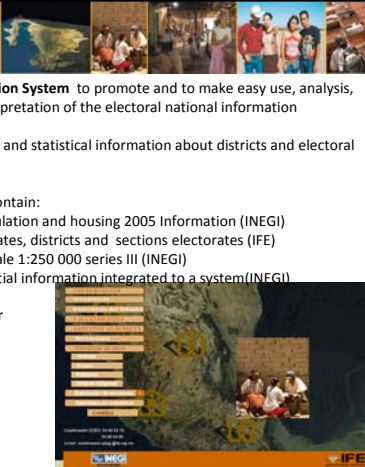
## Link between geographic and statistical data

Health and geospatial information link

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**INEGI** ESTADÍSTICAS CENSALES A ESCALAS GEOELECTORALES II Censo de Población y Vivienda 2005

- **Geospatial Information System** to promote and to 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**

## 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.



**INEGI**

## The Planning Scheme

**INEGI**

## 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