

# SPATIAL DATA INFRASTRUCTURE (SDI) OF MEXICO

EN SERVICIO



AGENCIA MEXICANA  
DE COOPERACIÓN INTERNACIONAL  
PARA EL DESARROLLO



UN-GGIM:Américas  
COMITÉ REGIONAL DE LAS  
NACIONES UNIDAS SOBRE  
LA GESTIÓN GLOBAL  
DE INFORMACIÓN GEOSPACIAL  
PARA LAS AMÉRICAS



ASSOCIATION OF CARIBBEAN STATES  
ASOCIACIÓN DE ESTADOS DEL CARIBE  
ASSOCIATION DES ETATS DE LA CARAÏBE



INSTITUTO NACIONAL  
DE ESTADÍSTICA Y GEOGRÁFICA

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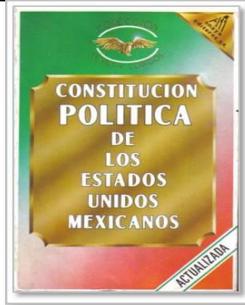




## II. SDI in Mexico – SNIEG Law

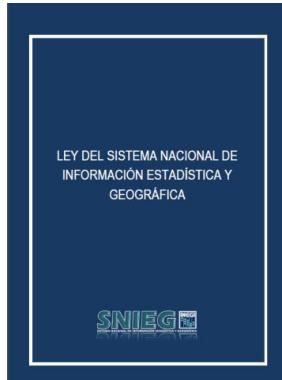
# SDI in Mexico – SNIEG Law

## Legal support



(Amendment to Art. 26, 2006)

<http://www.diputados.gob.mx/LeyesBiblio/htm/1.htm>



(Published in the Official Journal of the Federation, 2008)

<http://www.snieg.gob.mx/contenidos/espanol/normatividad/marcojuridico/LSNIEG.pdf>

## The SDI of Mexico



The State will have a **National System of Statistical and Geographic Information** (SNIEG for its acronym in Spanish) whose data will be considered official. (Art. 26, CPEUM 2015 )

INEGI is responsible for this System

(Art. 26, CPEUM 2015 )



<http://www.snieg.gob.mx>

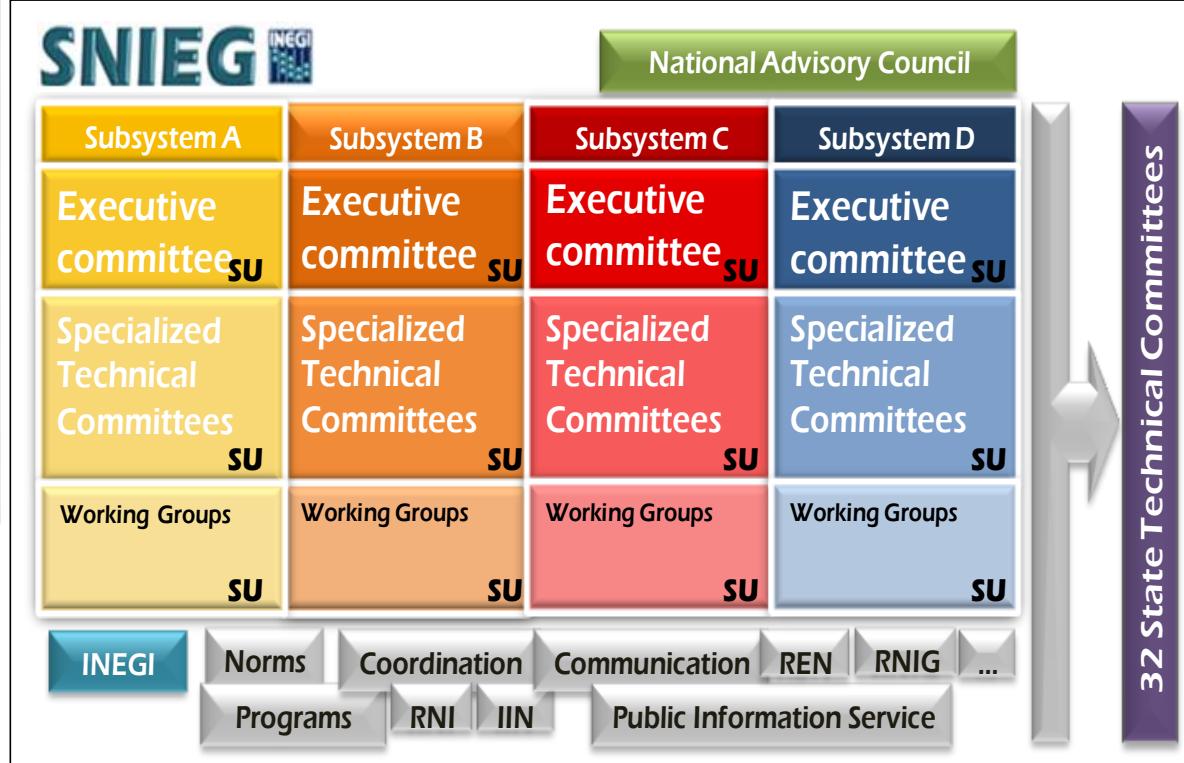
# SDI in Mexico – SNIEG Law

## National System of Statistical and Geographic Information (SNIEG for its acronym in Spanish)

Set of Units organized through subsystems, coordinated by the Institute\* and articulated by the National Information Network, in order to produce and distribute authoritative information.

(Art. 2 LSNIEG, 2008)

<http://www.snieg.gob.mx/#top>



\* SU.- State Units

<http://www.snieg.gob.mx/#top>

(SNIEG, 2015 )

# SDI in Mexico – SNIEG Law

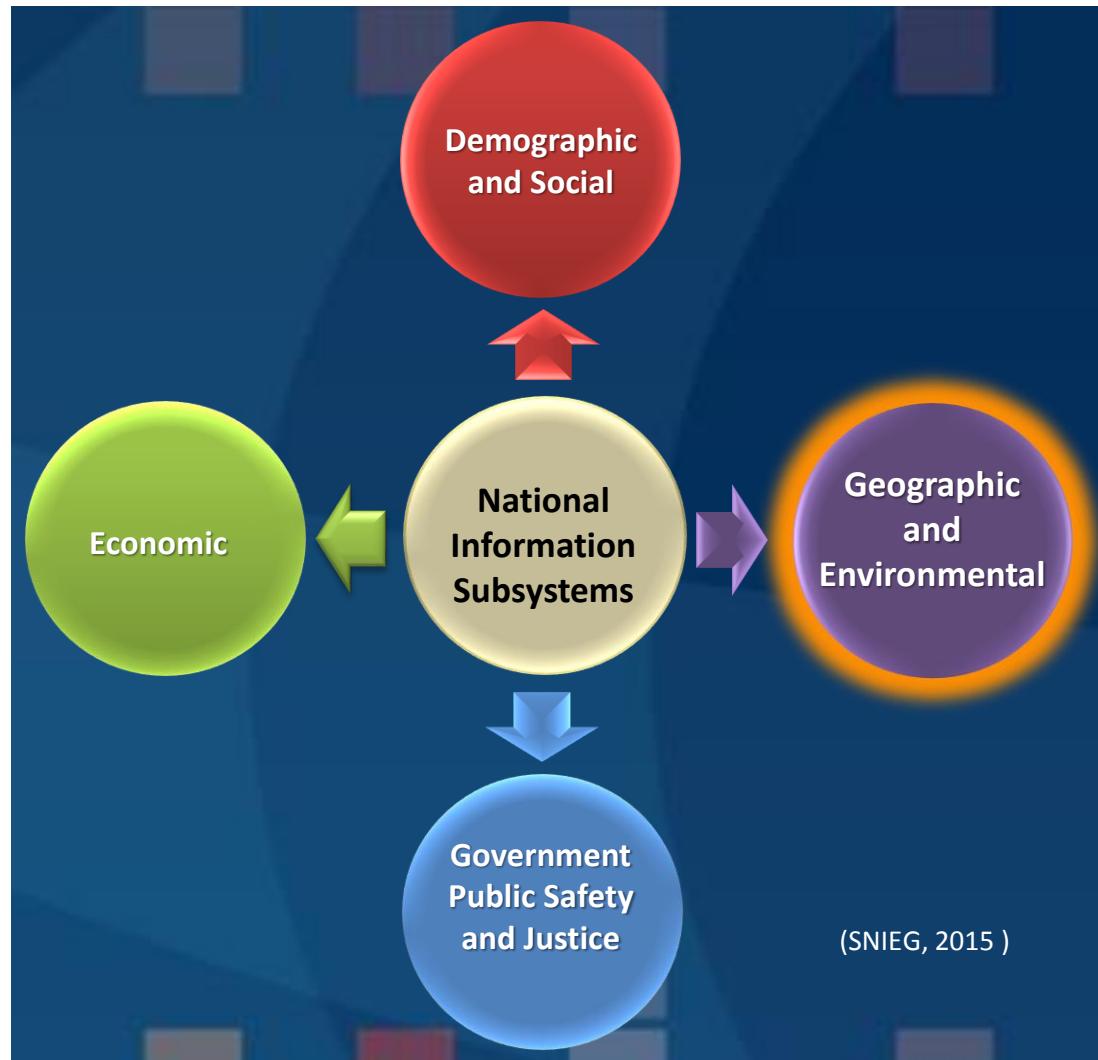
## National Information Subsystem

To Organize the National System, the next four National Information Subsystems are set.

Each subsystem produces, integrates and distributes authoritative information:

(Art. 17 LSNIEG, 2008)

<http://www.snieg.gob.mx/#5>



# National Subsystem of Geographic and Environment Information

## Art. 26 LSNIEG

### Geographic Component

#### Data Groups



Geographical Names

Cadastral Data,  
Topographic,  
Natural Resource  
and Climate

Continental, Insular  
and Submarine  
Relief

Coastal,  
International, State  
and Municipal  
boundaries

Geodetic Reference  
Frame



Spatial Data Infrastructure of  
Mexico

The SDI of Mexico

## Art. 27 LSNIEG

### Environment Component

#### Indicators



Atmosphere



Water



Soil



Flora



Fauna

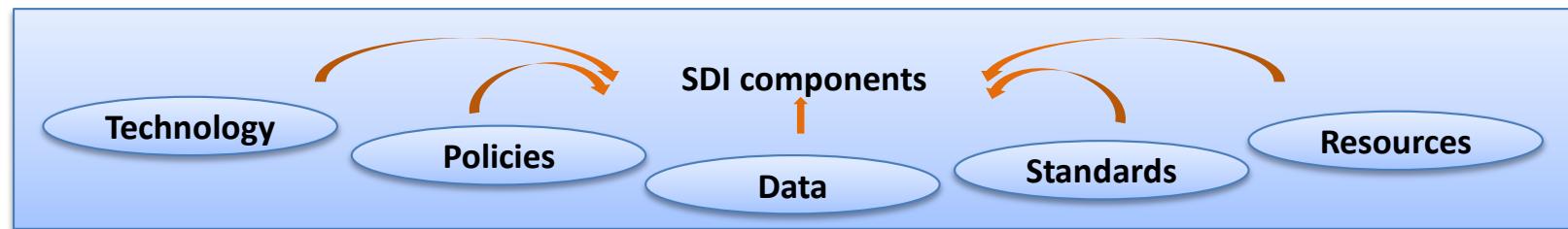
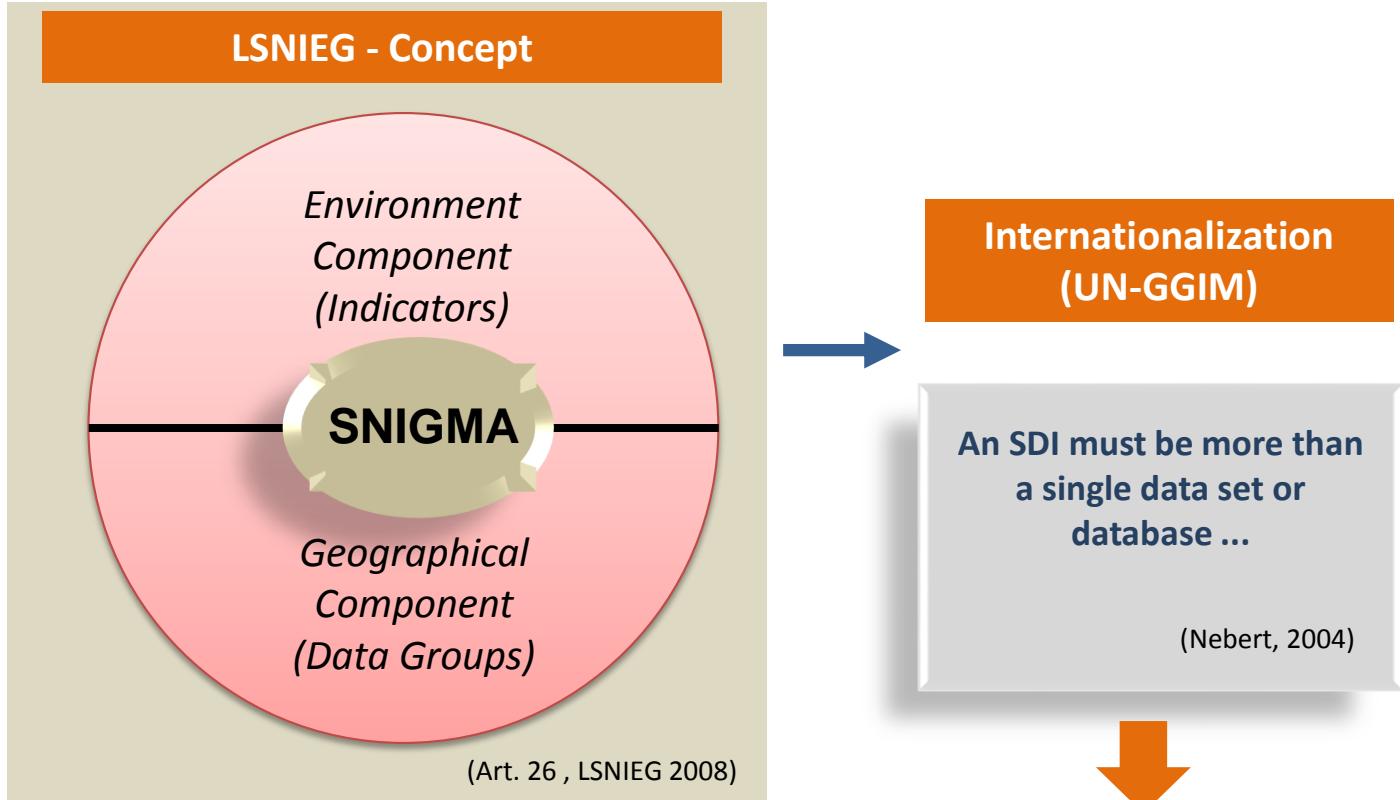


Hazardous and Solid  
Waste



### III. The SNIEG as SDI

# The SNIEG as SDI

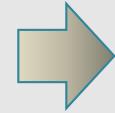
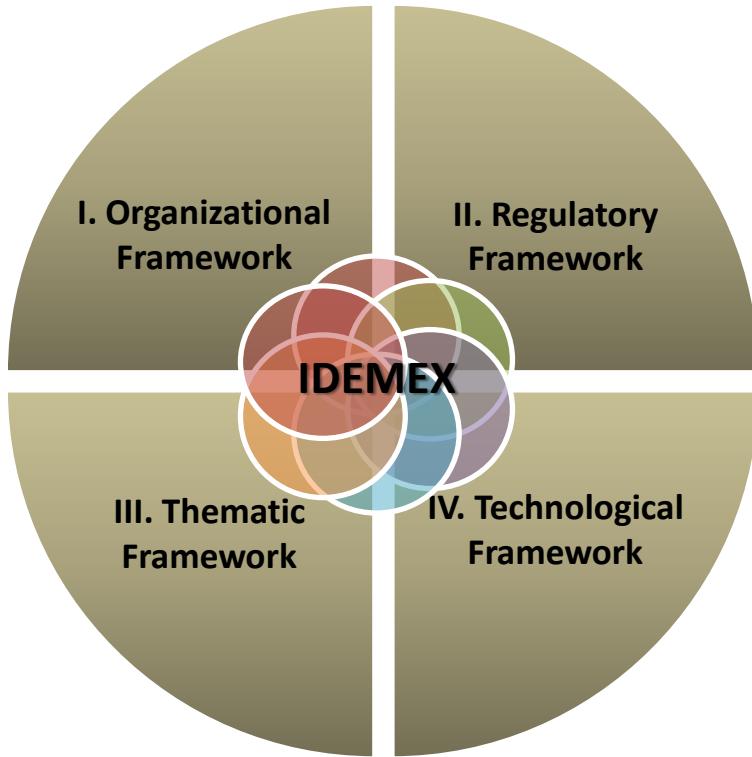


The SDI of Mexico



(Cookbook, 2009)

# The SNIEG as SDI

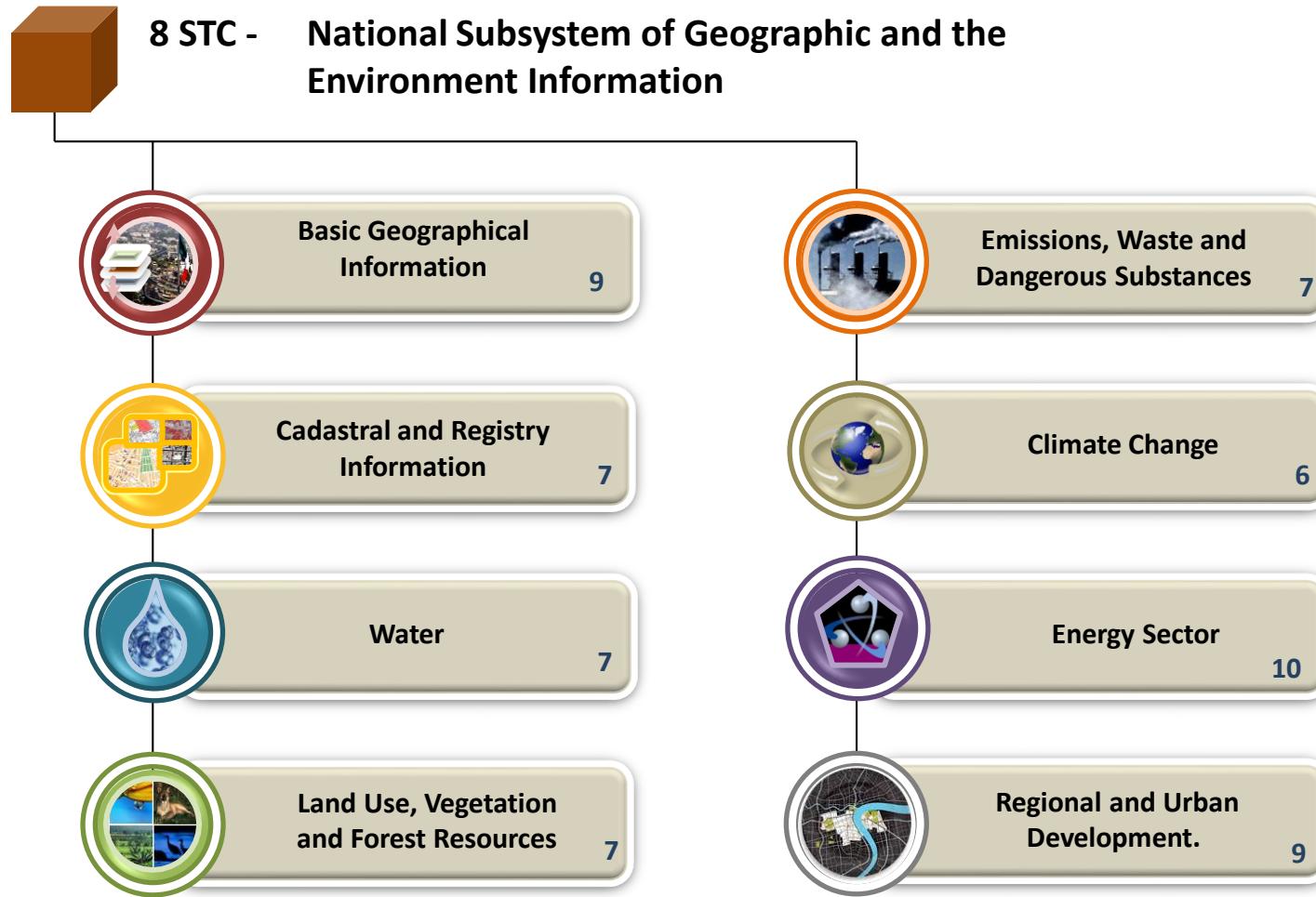


Spatial Data  
Infrastructure of  
Mexico



### III. The SNIEG as SDI: Organizational Framework

# Specialized Technical Committees (STC)





### III. The SNIEG as SDI: Regulatory Framework

# Regulatory Framework



## SNIEG Programmatic Instruments

- SNIEG Strategic Program  
(24 years)

(Art. 9 LSNIEG, 2008)



<http://www.snieg.mx/contenidos/espanol/programas/pesnieg.pdf>

- National Program of Statistics and Geography (6 years)



<http://www.snieg.mx/contenidos/espanol/programas/PNEG%202013-2018.pdf>

- Annual Program of Statistics and Geography



<http://www.snieg.mx/Contenido/s/espanol/Programas/PAEG2014.pdf>

The SDI of Mexico



# Normative for SNIEG Coordination

## 11 Documents

- Operation rules of SNIEG
- National interest's data definition rules
- National Advisory Board, integration and operation rules
- Executive Committees of the National Information Subsystems, integration and operation rules
- Specialized Technical Committees, integration and operation rules
- Agreement on the Use of the National Catalogue of Indicators about National interest's data
- Rules of Public Service of Statistics and Geographical Information
- Principles and Best Practices of Statistics and Geographic Activities of SNIEG.
- Integration and administration rules of the National interest's data collection
- Ethics code for members of SNIEG
- Standard for Quality Assurance of Statistical and Geographical Information INEGI

# Technical Normative on Geographic Activities

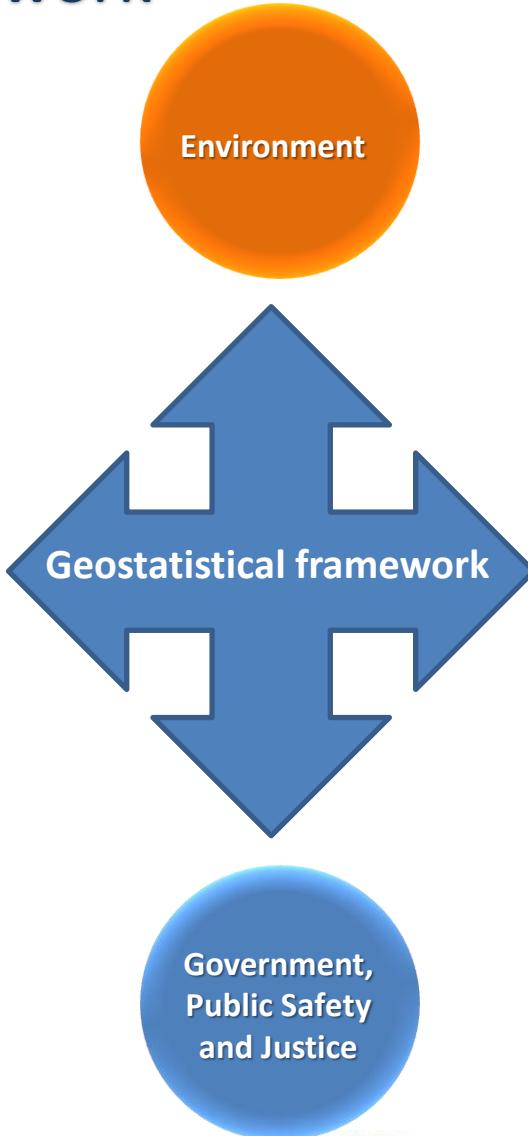
**9 documents**

- Geographic address – Nov. 12, 2010.
- National Geodetic System – Dec. 23, 2010.
- Positional Accuracy Standards - Dec. 23, 2010.
- Development of Geographic Metadata - December 24, 2010.
- Production, Collection and Integration of Cadastre and Register Data with Statistical and Geographic purposes - Jan 16, 2012.
- Use of the Catalog of Undersea Features Generic Terms -. December 28, 2012
- Generation of Digital Elevation Models with geographic purposes – December 2, 2014.
- Exchange of Cadastral Information for Statistical and Geographic purposes - June 23, 2015.
- Continental and Insular Geographic Names for Statistical and Geographic purposes register - June 25, 2015.



### III. The SNIEG as SDI: Thematic Framework

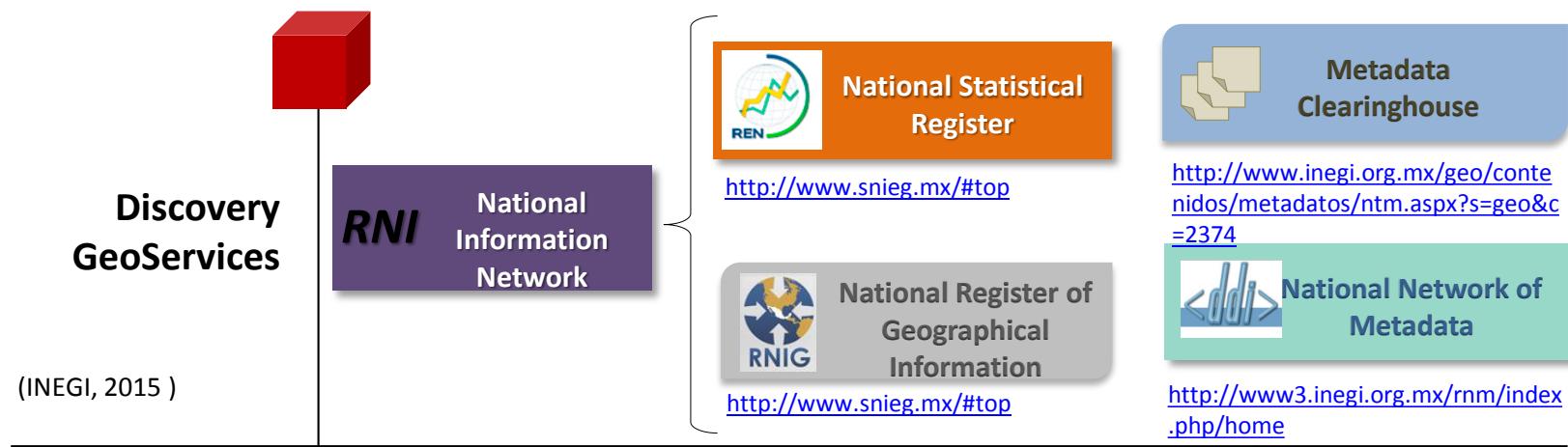
# Thematic Framework





### III. The SNIEG as SDI

# Technological Framework: Examples



<http://www.inegi.org.mx/geo/contenidos/mapadigital/>



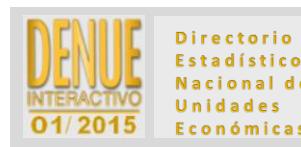
[http://antares.inegi.org.mx/analisis/red\\_hidro/SIATL/#](http://antares.inegi.org.mx/analisis/red_hidro/SIATL/#)



<http://www.atlasdemexico.gob.mx/>

## Data viewers

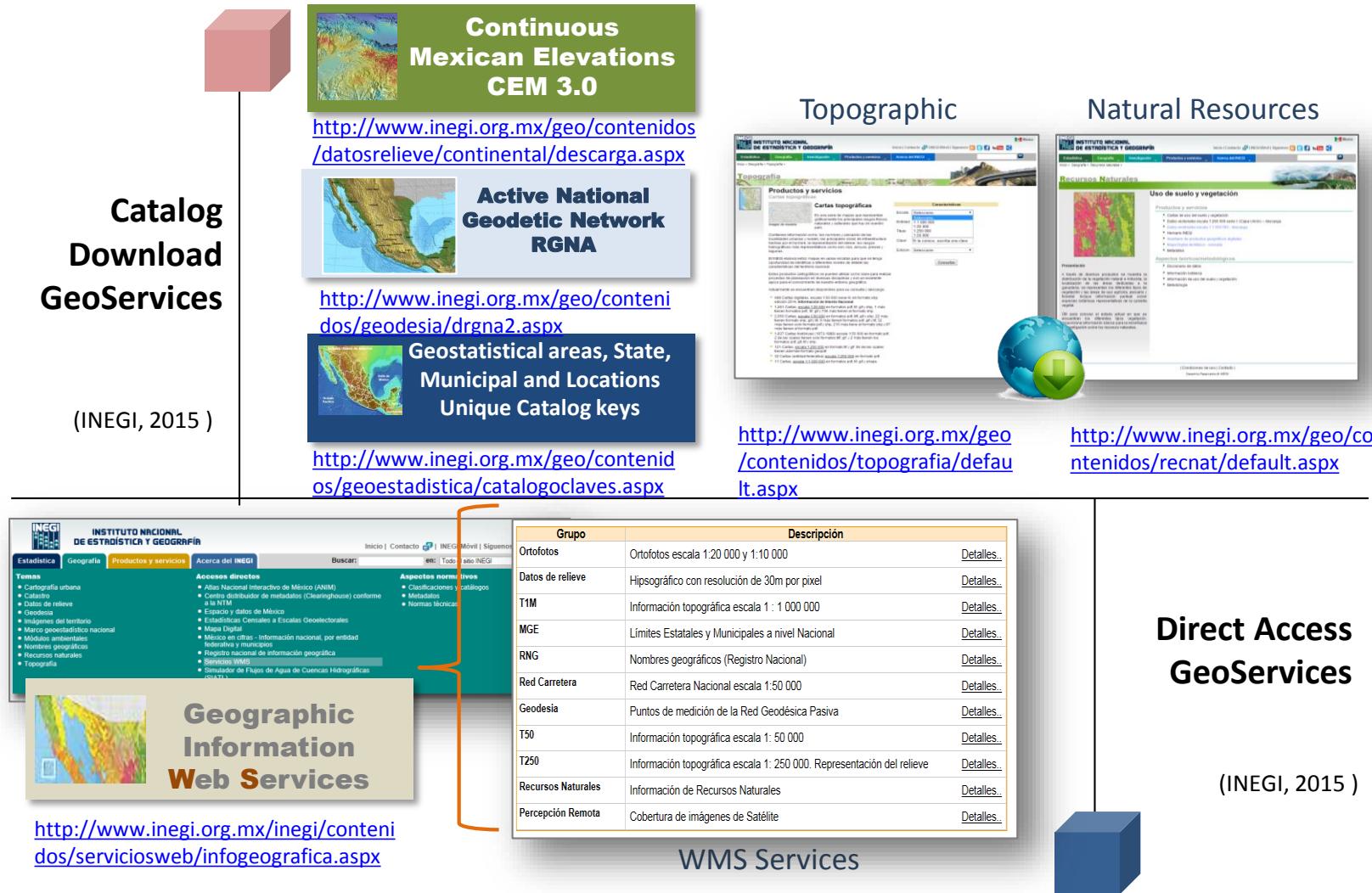
(INEGI, 2015 )



<http://www3.inegi.org.mx/sistemas/denue/default.aspx>



## Technological Framework: examples





## IV. Expectations

# Expectations

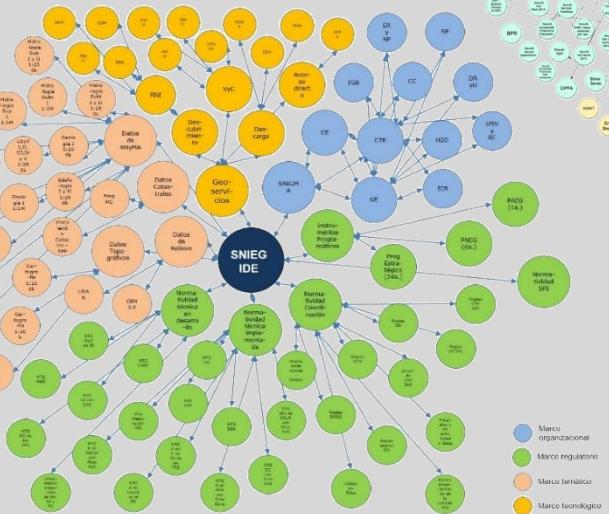


## SNIEG – IDE Strategic Goals

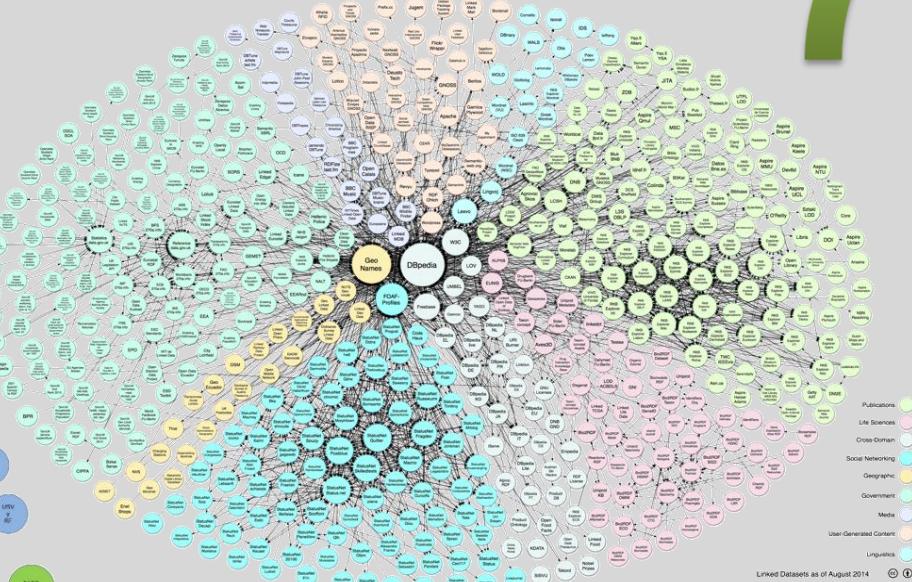
- Establishing the conceptual Framework of SNIEG as an SDI (Regulations).
- Consolidate the leadership of INEGI as the central authority of the SNIEG.
- Consolidate Public Information Service as Geoportal

# Expectations

2015

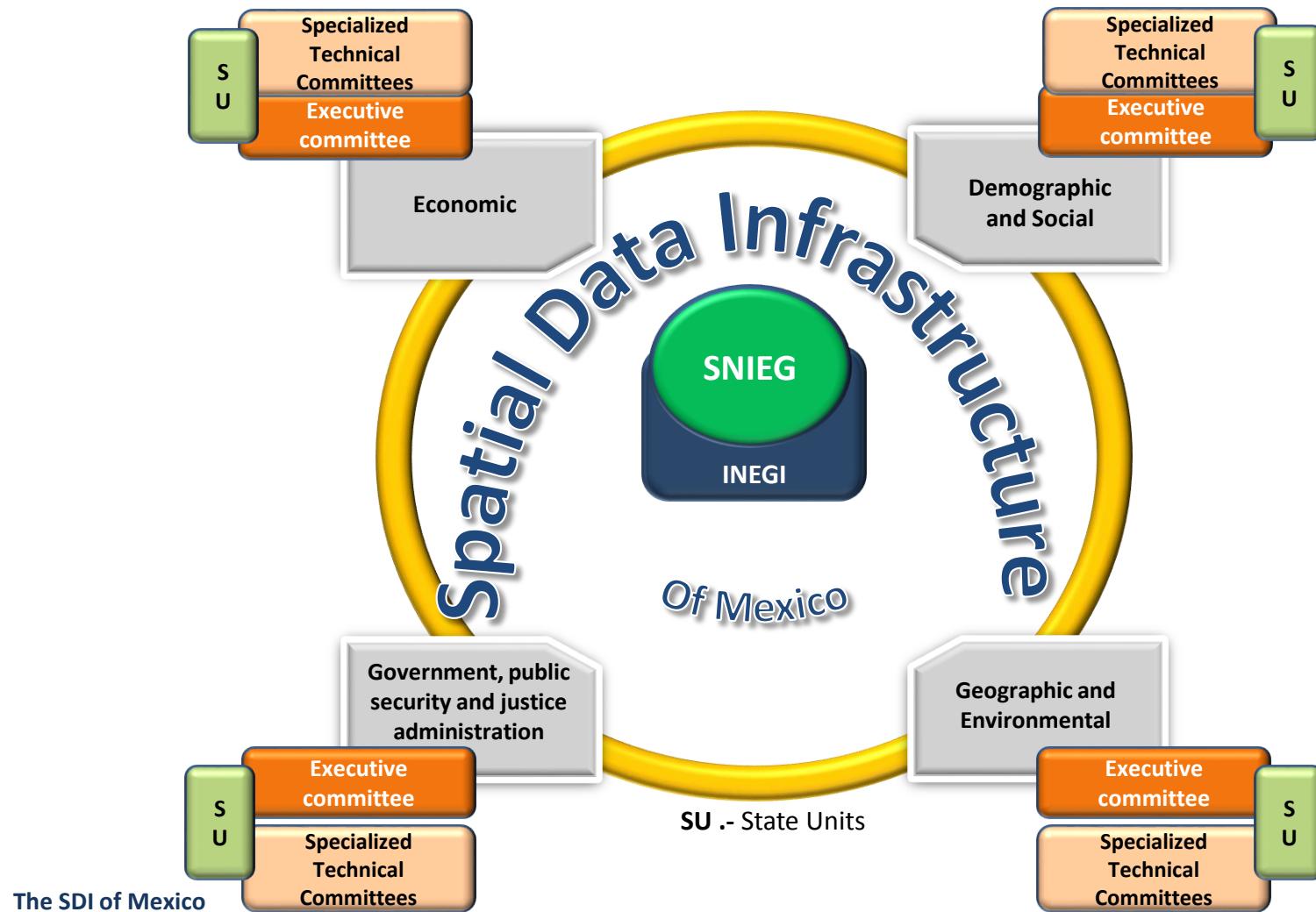


Conceptual framework SNIEG - SDI



Future  
IDEMex  
+  
BigData  
+  
Open  
Data

# Conclusion



# Conociendo México

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