



# X SESSION UN-GGIM: AMERICAS

October 18, 19 and 20 - 2023 Santiago de Chile, ECLAC

## The UN-IGIF in México

Progress and challenges in implementation

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## 1. Background





#### 1.1 A bit of history

- □ Since 1962, to describe the territory's geography, work has been done in Mexico. With the improvement of computer equipment and informatic systems in the early 90's, the topics covered by these efforts increased while the time to obtain results decreased.
- □ In 2008, the National System of Statistical and Geographic Information (LSNIEG) law was enacted, with the aim of "provide, to the state and society, quality, relevant, accurate and timely information, in order to contribute to national development."(1).







#### 1.2 INEGI as the SNIEG coordinator



Within the framework of the National System of Statistical and Geographic Information (SNIEG), the **State Units** are the administrative areas with **faculties to develop statistical and geographic activities** or possess administrative records that allow obtaining Information of National Interest on different topics.



According to the LSNIEG, the **National Institute of Statistics and Geography (INEGI)** is **responsible for regulate and coordinate the activities of this Units**, in accordance to national and international standards, and the best practices in the matter.





## 2. First steps





#### 2.1 Participation in the IGIF International Seminar



**Title**: Why implement the Integrated Geospatial Information Framework (IGIF) in my country?

**Date**: July 7, 2022

**Modality**: Online

Organized by the Board of Directors of UN-GGIM Americas and the CARIGEO Coordinating Committee, with the collaboration of UN-GGIM Secretariat and the IGIF High Level Group.

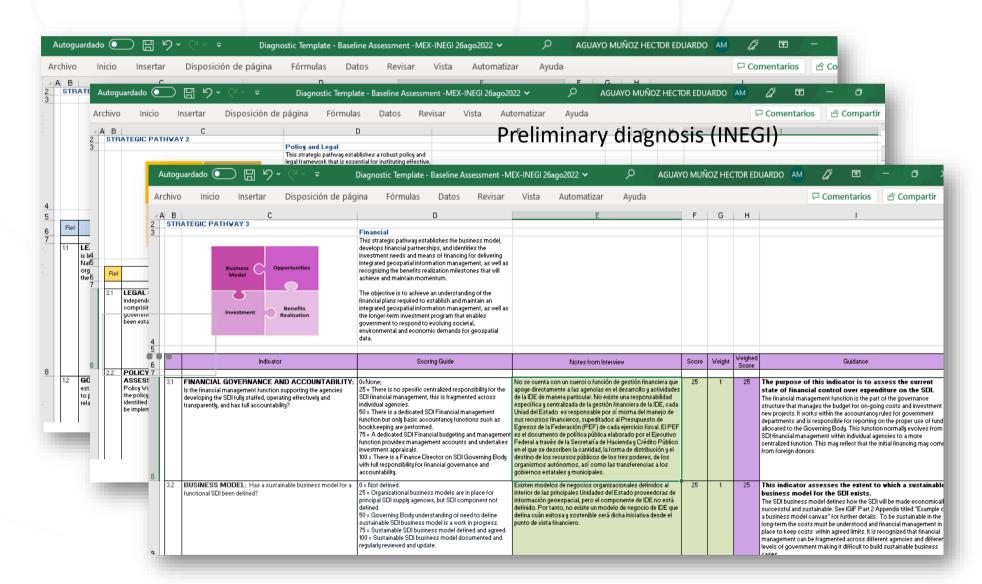




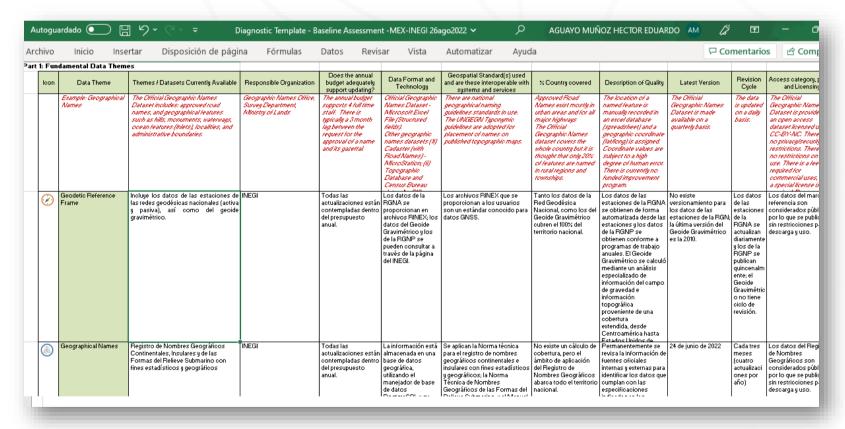
## 2.2 World Bank Methodology

#### 1. Preliminary diagnosis (INEGI)

Diagnostic sheets by strategic route



#### Data audit







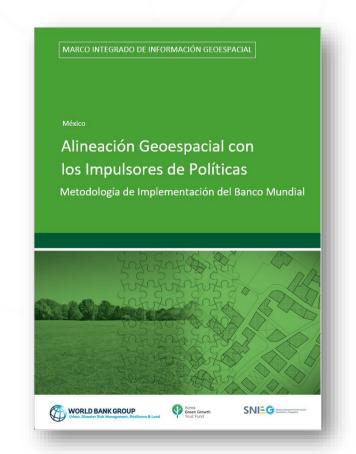
## 2.2 World Bank Methodology

#### 2. Template integration

#### I. Baseline assessment

Provides an assessment of the current state of geospatial information management in the country, structured around the nine IGIF pathways.





#### **II. Geospatial Alignment with Policy Drivers**

Allows to align government strategic objectives and international commitments with specific geospatial use cases (applications), as well as prioritizing them based on how well they support and accelerate the achievement of these strategic objectives.





## 3. Migrating to UN-GGIM Methodology





## 3.1 Methodological Change



#### Templates (results):

- Baseline Assessment
- Geospatial Alignment to Policy Drivers
- Socio-Economic Impact Assessment
- Action Plan





#### Templates (results):

- Stakeholder identification and analysis
- Developing the plan of action
- Current and desired situation assessment
- Baseline assessment
- Environmental scanning and analysis
- Stakeholder engagement workshop
- Strategic alignment (and benefits)
- Vision, mission and goals
- Gap analysis matrix
- Needs assessment and gap analysis

## 4. UN-IGIF implementation progress





## 4.1 Action plan development

## Component One. Execution Plan development

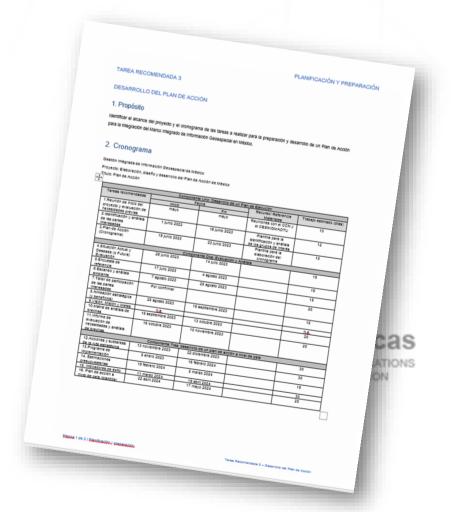
- 1. Project kick-off meeting and previous necessities 
  assessment
- 2. Identification and analysis of interested parties  $\checkmark$
- 3. Action Plan (Roadmap) 🗸

#### **Component Two: Assessment and Analysis**

- 4. Current and Desired (or Future) Situation Assessment
- 5. Reference survey
- 6. Environment scanning and analysis
- 7. Stakeholder Engagement Workshop 🗸
- 8. Strategic alignment (and benefits)
- 9. Vision, Mission and Goals
- 10. Gap Analysis Matrix
- 11. Needs Assessment and Gap Analysis Report

## **Component Three: Action plan development**

- 12. Actions and subtasks of the strategic route
- 13. Implementation schedule
- 14. Budget estimates
- 15. Success Indicators
- 16. Country level action plan (template)





## 4.2 Stakeholder engagement workshop

#### Instrument

- Template integrated with:
- □ **55** questions
- □ **5** levels of response
- Key questions sources:
- □ World Bank
- UN-GGIM
- **□** ECLAC Consultant



#### Asistencia Técnica Geoespacial



Implementación del Marco Integrado de Información Geoespacial en México

#### Vía estratégica 1: Gobernanza e instituciones

Preguntas	Selección de Respuesta	Argumentación y Acciones Propuestas
Accional de     Infraestructura de Datos     Espaciales (IDE) que     identifique la visión,     misión, metas y objetivos     de la iniciativa de gestión     de la información     geoespacial	<ul> <li>Ninguna.</li> <li>Se ha formado un comité o grupo de trabajo para formular la estrategia.</li> <li>Se ha creado y firmado una estrategia sectorial por todas las partes interesadas.</li> <li>Se ha acordado una estrategia nacional por las partes interesadas, pero no se integra con estrategias gubernamentales más amplias.</li> <li>Se ha acordado una estrategia nacional por todas las partes interesadas y está alineada con estrategias gubernamentales más amplias.</li> </ul>	
¿Existe una declaración simple que resuma por qué las partes interesadas deberían involucrarse y utilizar la información geoespacial y por qué el gobierno necesita una IDE nacional?	<ul> <li>Ninguna.</li> <li>Existe evidencia anecdótica sobre el valor de una IDE nacional.</li> <li>Se ha realizado una alineación estratégica para identificar las prioridades clave del gobierno.</li> <li>Se ha creado una propuesta de valor a partir de un análisis de impacto socioeconómico, pero no tiene una aceptación generalizada y no ha desencadenado un cambio significativo.</li> <li>Los responsables de la toma de decisiones están plenamente convencidos de la propuesta de valor, derivada de un análisis de impacto socioeconómico completo, y de la importancia de la información geoespacial.</li> </ul>	





## 4.2 Stakeholder engagement workshop

#### **Application Universe**

- □ **26** State Units
- □ 46 people
- ☐ **4** workgroups
- □ **11** participants per group

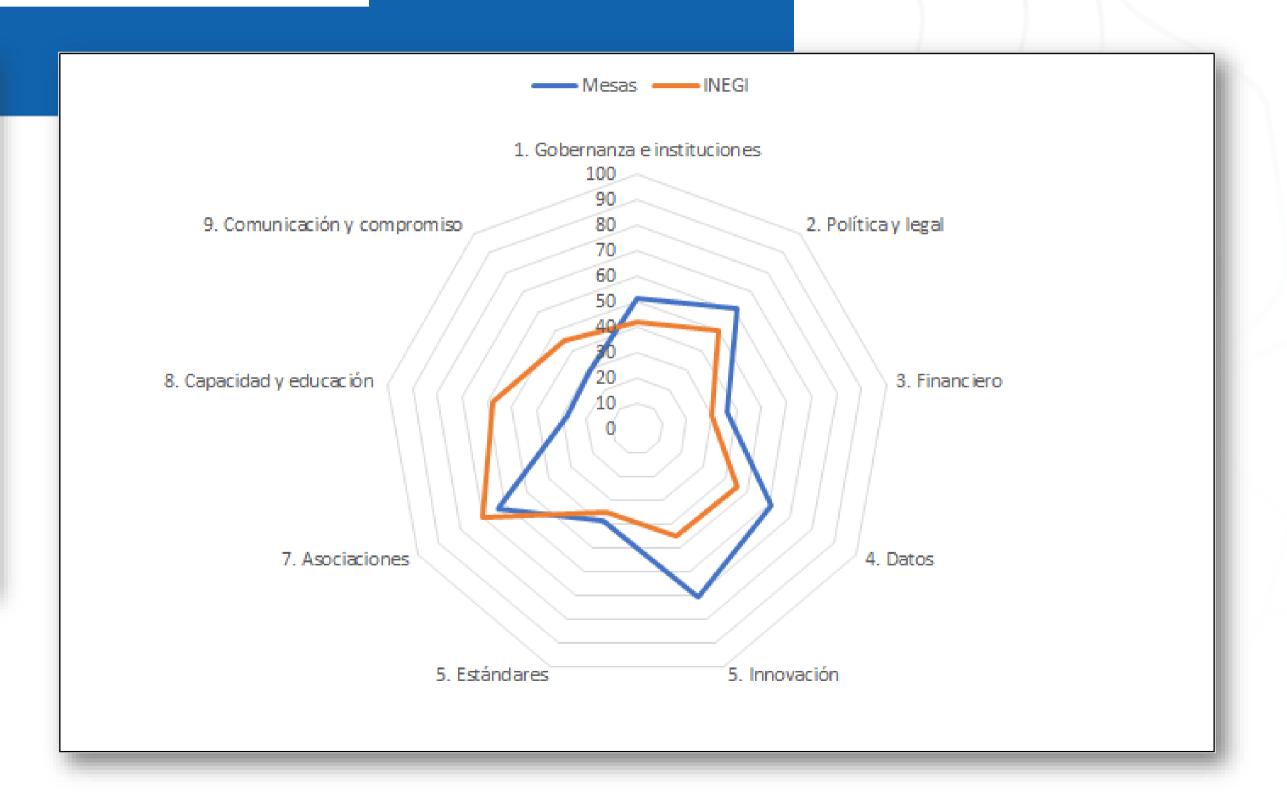
#### **Achievements:**

- □ There was **significant participation from the EU**, enriching the debate and analysis of the workgroups.
- □ Elements were obtained to integrate a national diagnosis.
- ☐ Foundations were derived to reduce gaps identified through the proposed actions.
- □ Proposed actions will serve to **guide the National**Action Plan, aligned with the programmatic instruments of the SNIEG.

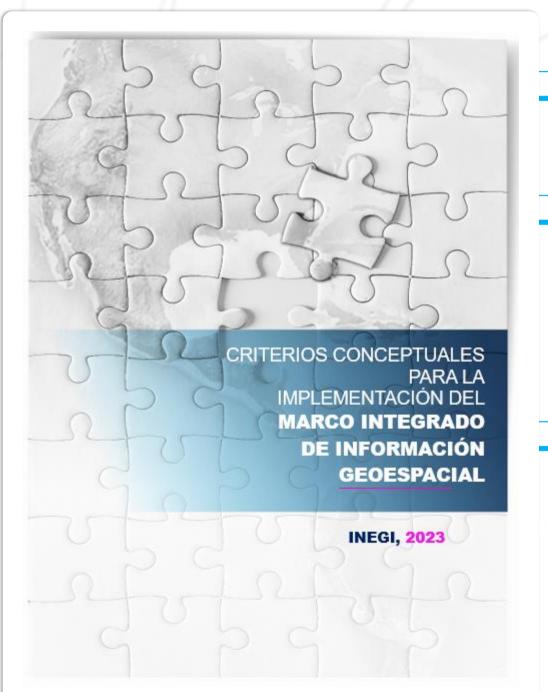
## 4.2 Stakeholder engagement workshop

#### **Results Summary**

Vía Estratégica	INEGI	Mesas	Promedio
1. Gobernanza e instituciones	42	51	49
2. Política y legal	50	62	60
3. Financiero	30	36	35
4. Datos	46	61	58
5. Innovación	45	71	65
5. Estándares	35	39	38
7. Asociaciones	70	63	65
8. Capacidad y educación	58	28	34
9. Comunicación y compromiso	45	29	32
Puntuación general	46	48	48



#### 4.3 IGIF implementation: Conceptual criteria



- Based on UN-IGIF documents published by UN-GGIM on its official website.
- Adaptation of the main concepts of the UN-IGIF to the legal, regulatory, financial and organizational circumstances of Mexico, within the framework of the National System of Statistical and Geographic Information (SNIEG).
- Announce to the State Units of the SNIEG, other organizations and users involved in the geospatial ambit in Mexico, the conceptual criteria for the implementation of the Framework.





## 5. Next steps





#### 5.1 What's next?



#### **After the Workshop**

- Evaluate and disseminate the results of the national diagnosis.
- Analyze the proposed actions.
- ☐ Guide the development of the National Action Plan based on the proposed actions.



**SNIEG programmatic** instruments

#### **National Action Plan**

- ☐ Evaluate the current situation against the desired situation
- ☐ Assessment of internal and external factors
- ☐ Alignment exercise to national strategic plans
- ☐ Needs Assessment and Gap Analysis Report
- Success Indicators

## 6. Some challenges





#### 6.1 Challenges in the UN-IGIF implementation

## The eternal enemy: financing



## The train can't stop, there are commitments to fulfill







### 6.2 Challenges in the UN-IGIF implementation

## Changes always generate resistance







## Thank you!

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