



Geospatial Information and the SDGs in Mexico: institutional perspectives on urban resilience


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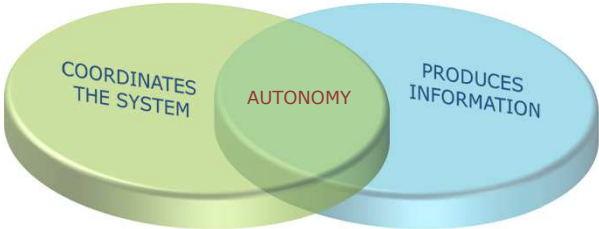


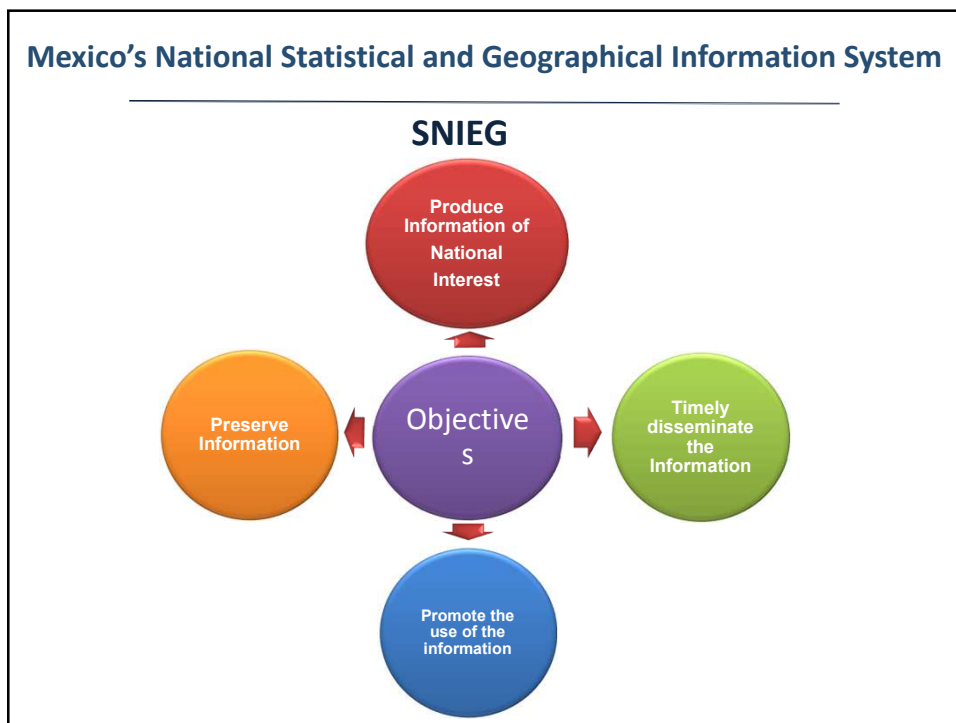
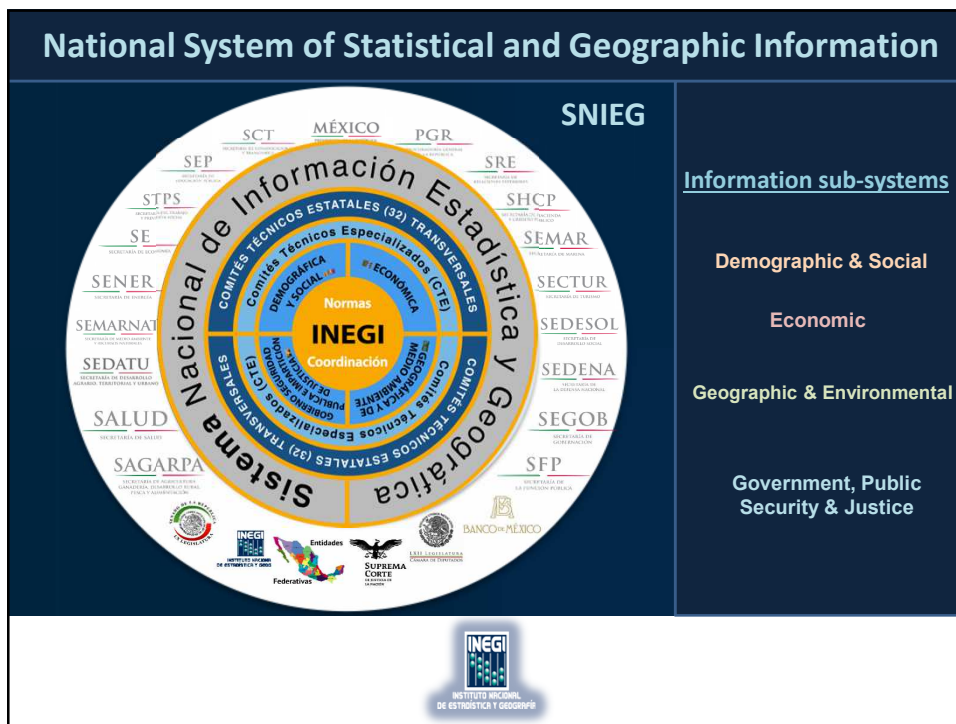
I. Mexico's institutional setting

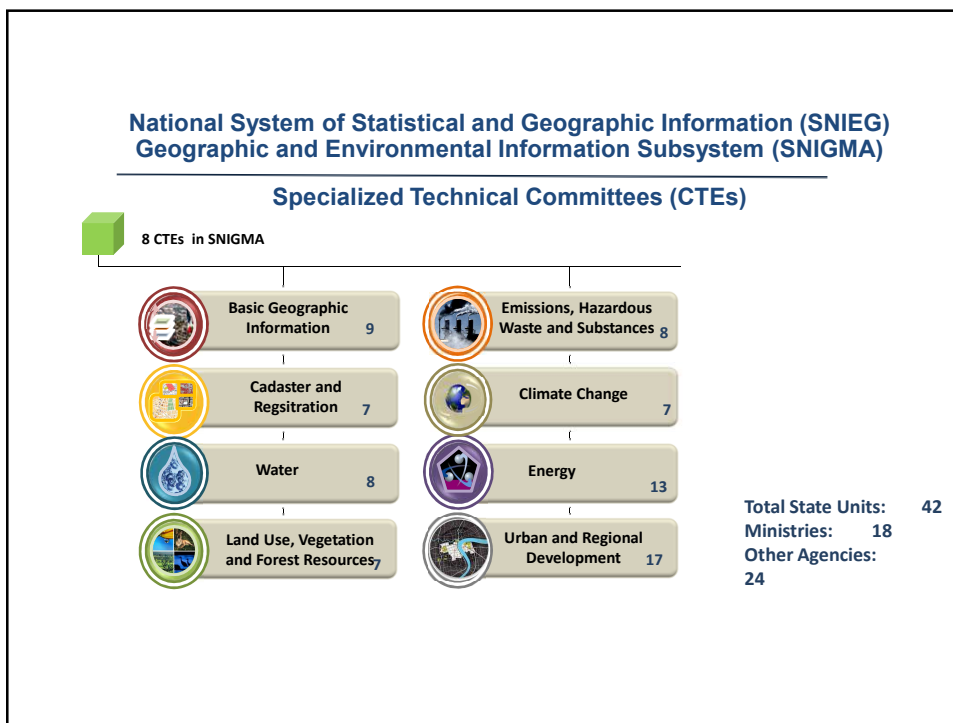
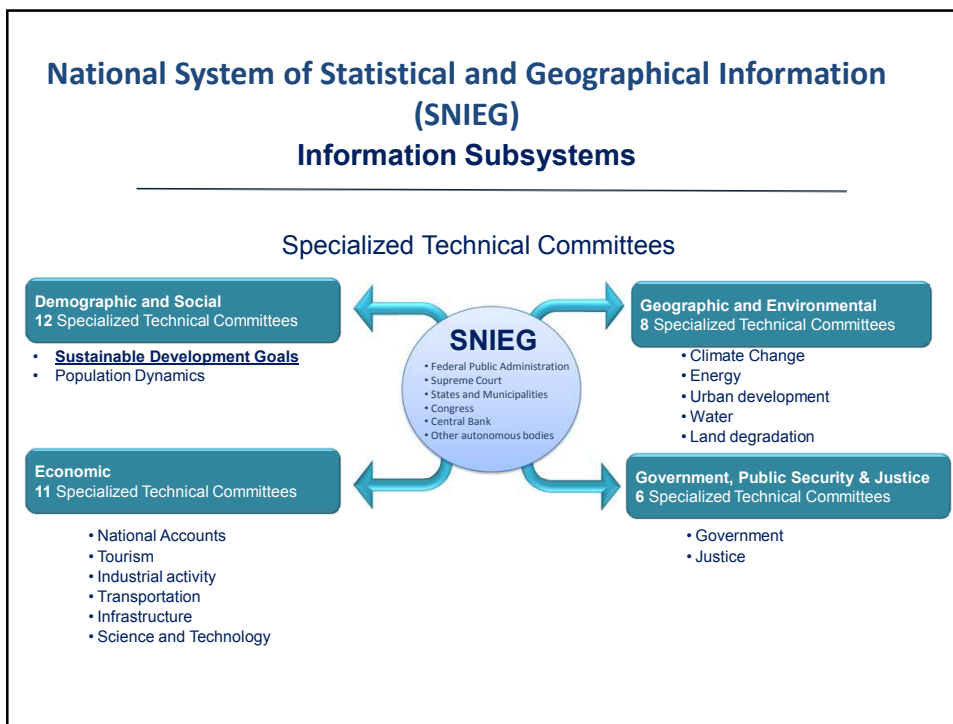
National Institute of Statistics and Geography INEGI

3 Key Elements

- Geospatial and Statistical Information in a single Institution since 1983
- Autonomous since 2008
- Coordinates National System of Statistical and Geographic Information (SNIEG)







Lessons learned from monitoring the Millennium Development Goals

Technical Committee on MDG Indicators

President of the Committee



Technical Secretary



Rapporteur



Members



Invited Institutions



Geographical coverage of the MDGs indicators

Total	National	By State	By State and Municipality	Urban and rural
80	26	52	17	7

UN agreed MDG indicators: 48

National adjustments

Beyond the MDGs: 22

Reformulated: 10

TOTAL FOR MEXICO: 80

A consolidated web platform for MDG monitoring

- Open Access
- Coordinated by INEGI
- Compiles information from all State agencies and institutions
- Data and metadata available
- Calendar for periodic updating
- Transparency in monitoring

MDG 7 Ensure environmental sustainability

Target 7.C.
Halve, by 2015,
the proportion of people without
sustainable access to safe
drinking water and basic sanitation

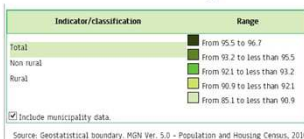
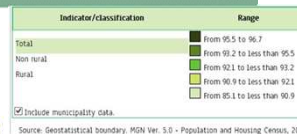
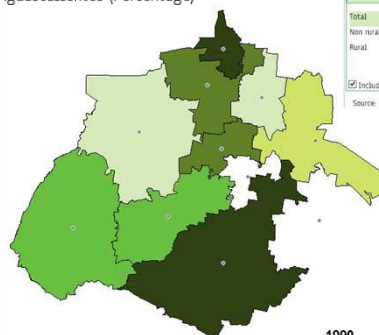
Indicator 7.8.
Proportion of population
with regular access to an
improved drinking water
source - Reformulated

**Data at state and municipal
levels for certain indicators**



**Example of geo-referenced
data showing progress
for MDG indicator 7.8
by municipality, over time**

Aguascalientes (Percentage)





III. Agenda 2030 and the Sustainable Development Goals

National Implementation



THE GLOBAL GOALS
For Sustainable Development

National Reporting for Agenda 2030

- On July 2016, Mexico was among the first thirteen countries in the world to present a Voluntary National Review (VNR) of the Sustainable Development Goals, to the UN High Level Political Forum, at its Ministerial Segment
- The report emphasized plans to: modify existing national economic and development planning processes; engage different government departments and broader technical expertise; develop indicators and collect data; and ensure high-level leadership.



The National Council for Sustainable Development and Agenda 2030

- Created by Executive Decree, and formally installed on April 26, 2017
- Conceived as a State-wide, **long-term commitment** at the highest level, transcending individual administrations
- Decree includes modifications to the ***National Development Planning Law***, as well as to the ***2018 national budget***, in order to include provisions for SDG implementation.



The National Council for Sustainable Development and Agenda 2030

- A cross-sectoral committee coordinated by the Office of the President
- It includes 18 line ministries, state and local governments, Congress, the private sector, academia and civil society;
- The Senate, and the National Conference of State Governors, have each installed Commissions and Working Groups for the follow-up of the SDGs
- Technical advice from INEGI and other autonomous institutions;
- Launch of the National Platform for SDG monitoring (<http://agenda2030.mx>)





National Online Platform for the SDGs

25 SDG Indicators already under monitoring

- 1.1.1 Proportion of population below the international poverty line, by sex, age, employment status and geographical location (urban/rural)
- 1.2.1 Proportion of population living below the national poverty line, by sex and age
- 1.2.2 Proportion of men, women and children of all ages living in poverty in all its dimensions according to national definitions
- 3.1.1 Maternal mortality ratio
- 3.1.2 Proportion of births attended by skilled health personnel
- 3.2.1 Under-five mortality rate
- 3.3.3 Malaria incidence per 1,000 population
- 3.7.1 Proportion of women of reproductive age (aged 15-49 years) who have their need for family planning satisfied with modern methods
- 3.7.2 Adolescent birth rate (aged 10-14 years; aged 15-19 years) per 1,000 women in that age group
- 6.3.1 Proportion of wastewater safely treated
- 8.2.1 Annual growth rate of real GDP per employed person
- 8.3.1 Proportion of informal employment in non-agriculture employment, by sex
- 8.7.1 Proportion and number of children aged 5-17 years engaged in child labour, by sex and age
- 8.8.1 Frequency rates of fatal and non-fatal occupational injuries, by sex and migrant status
- 9.2.2 Manufacturing employment as a proportion of total employment
- 9.4.1 CO2 emission per unit of value added
- 10.1 By 2030, progressively achieve and sustain income growth of the bottom 40 per cent of the population at a rate higher than the national average
- 14.5.1 Coverage of protected areas in relation to marine areas
- 15.1.1 Forest area as a proportion of total land area
- 15.1.2 Proportion of important sites for terrestrial and freshwater biodiversity that are covered by protected areas, by ecosystem type
- 15.5.1 Red List Index
- 16.1.1 Number of victims of intentional homicide per 100,000 population, by sex and age
- 17.10.1 Worldwide weighted tariff-average
- 17.11.1 Developing countries' and least developed countries' share of global exports

<http://agenda2030.mx/>

<http://agenda2030.mx/>

Platform includes a calendar outlining:

- Expected updates of National SDG indicators
- State unit/government agency in charge of each indicator

Additional indicators expected by mid-2018

Número	Indicador	Institución responsable	Próxima actualización
1	1.1.1. Proporción de la población que vive por debajo del umbral internacional de la pobreza, desglosada por sexo, edad, situación laboral y ubicación geográfica (urbana o rural)	CDNEVAL	Segundo semestre de 2017
2	1.2.1. Proporción de la población que vive por debajo del umbral nacional de la pobreza, desglosada por sexo y edad	CDNEVAL	Segundo semestre de 2017
3	1.2.2. Proporción de hombres, mujeres y niños de todas las edades que viven en la pobreza en todas sus dimensiones, con arreglo a las definiciones nacionales	CDNEVAL	Segundo semestre de 2017
4	2.1.2. Proporción de la población con inseguridad alimentaria moderada o severa (carencia por acceso a la alimentación)	CDNEVAL	2018
5	3.1.1. Índice de mortalidad materna	SS	Noviembre de 2017
6	3.1.2. Proporción de partos con asistencia de personal sanitario especializado	SS	Mayo de 2017
7	3.2.1. Tasa de mortalidad de niños menores de 5 años	SS	Por definir
8	3.3.3. Tasa de incidencia asociada al paludismo (por 100 mil habitantes)	SS	Julio de 2017
9	3.3.5.a. Proporción de tratamientos otorgados a casos confirmados de paludismo, para la prevención, control y eliminación de la transmisión del Plasmodium Vivax	SS	Julio de 2017
10	3.7.1. Proporción de mujeres en edad reproductiva (de 15 a 49 años) con demanda satisfecha de planificación familiar con métodos modernos	CDNAPO	2018 o 2019
11	3.7.2.a Tasa de fecundidad de las adolescentes de 10 a 14 años por cada 1,000 adolescentes en ese grupo de edad	CDNAPO	2017
12	3.7.2.b Tasa de fecundidad de las adolescentes de 15 a 19 años por cada 1,000 mujeres de ese grupo de edad	CDNAPO	Diciembre de 2017
13	6.5.1. Proporción de aguas residuales tratadas de manera segura	SEMARNAT	Diciembre de 2017
14	8.2.1. Tasa de crecimiento del PIB por persona ocupada	STPS	Abril de 2017
15	8.3.1. Proporción del empleo informal en el empleo no agropecuario, desglosada por sexo	STPS	Abril de 2017
16	8.5.2. Tasa de desocupación, desglosada por sexo y edad	STPS	Abril de 2017
17	8.7.1. Proporción de la población de 5 a 17 años que realiza una ocupación infantil no permitida, desglosada por sexo y edad	STPS	Julio de 2018
18	8.8.1. Tasa de incidencia de lesiones ocupacionales mortales y no mortales, desglosada por sexo	STPS	2017
19	9.2.2. Ocupación en la manufactura como proporción del empleo total, desglosada por sexo	STPS	Abril de 2017
20	9.4.1. Emisiones de dióxido de carbono total por PIB por paridad de poder de compra	SEMARNAT	No definida
21	10.a.1. Proporción de líneas arancelarias que se aplican a las importaciones de los países menos adelantados y los países en desarrollo con anexo I cero	SE	Abril de 2017
22	14.5.1. Cobertura de las zonas protegidas en relación con las zonas marinas	SEMARNAT	Mayo de 2017
23	15.1.1. Superficie forestal como proporción de la superficie total	SEMARNAT	Diciembre de 2017
24	15.1.2. Proporción de lugares importantes para la diversidad biológica terrestre y del agua dulce que forman parte de zonas protegidas, desglosada por tipo de ecosistema	SEMARNAT	Mayo de 2017
25	15.5.1. Proporción de especies en peligro de extinción	SEMARNAT	No definida
26	16.1.1. Número de víctimas de homicidios dolosos por cada 100 000 habitantes, desglosado por sexo y edad	INEGI	31 de octubre de 2017
27	17.10.1. Promedio arancelario ponderado en todo el mundo	SE	Marzo de 2017
28	17.11.1. Participación de los países en desarrollo y los países menos adelantados en las exportaciones mundiales	SE	Julio de 2017



Technical Committee on the SDGs (transformed from the MDGs)

Charged with proposing, discussing and approving national SDG indicators

President of the Committee



Technical Secretary



Rapporteur



Members



Observers



Current National SDG Indicator Status (by Tier)

Goal	Tier according to Mexico's statistical capacity*			
	Total	I	II	III
	232	94 (81)	51 (57)	81 (88)
1. No poverty	12	0	4	5
2. Zero hunger	13	5	4	4
3. Good health and well-being	25	17	4	4
4. Quality education	11	5	2	4
5. Gender equality	13	7	1	5
6. Clean water and sanitation	11	2	5	4
7. Affordable and clean energy	6	2	2	2
8. Decent work and economic growth	17	10	3	4
9. Industry, innovation and infrastructure	12	8	1	3
10. Reduced inequalities	11	4	2	5
11. Sustainable cities and communities	13	2	6	5
12. Responsible consumption and production	11	0	1	10
13. Climate action	3	0	0	3
14. Life below water	10	3	0	7
15. Life on land	12	4	3	5
16. Peace, justice and strong institutions	21	4	12	5
17. Partnerships for the goals	25	18	1	6

* Numbers in parenthesis represent indicators currently in each tier within the global indicator framework

National data and methodologies could allow for the measuring of more indicators than those currently in tier I, based on globally available data



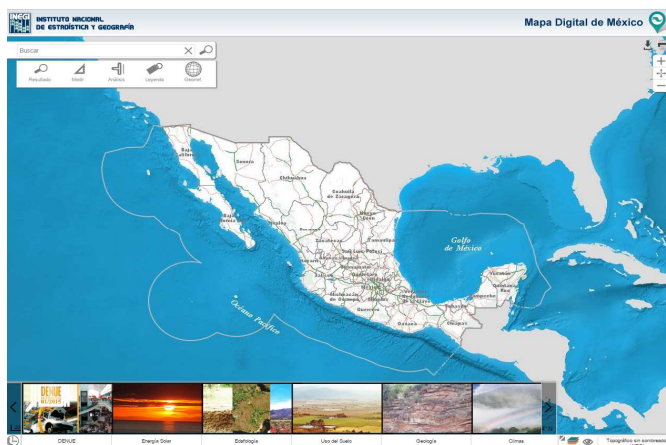
III. Mapping vulnerability and building resilience

- The role of national geospatial information in urban settings

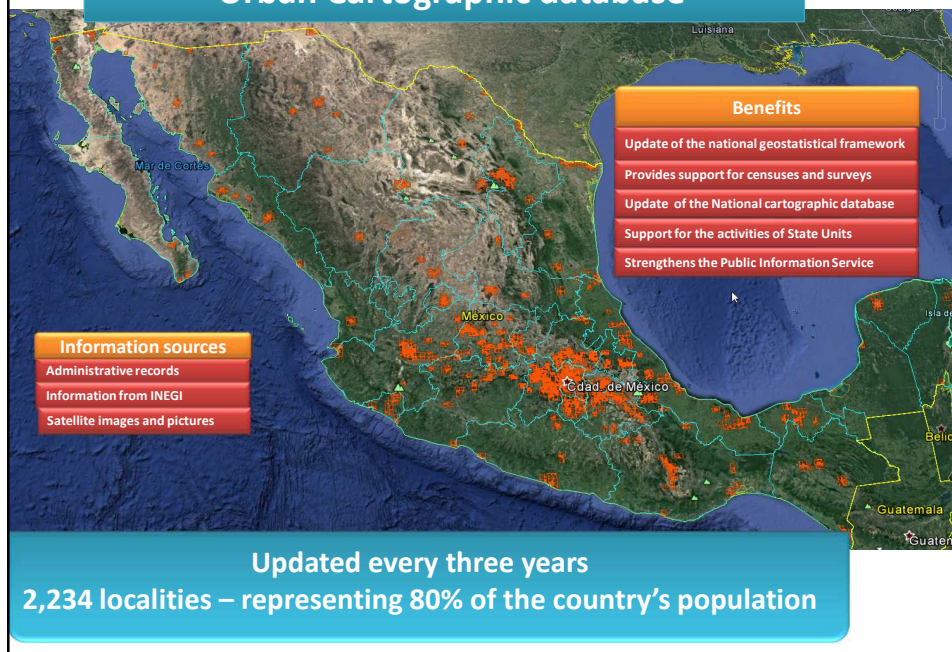
Digital Map of Mexico

Open-source geomatic platform which allows the visualization and analysis of geographic and geo-referenced statistical information.

It contains 208 vector data layers, with more than 71 million geographic objects, and 4 raster layers covering the entire country.



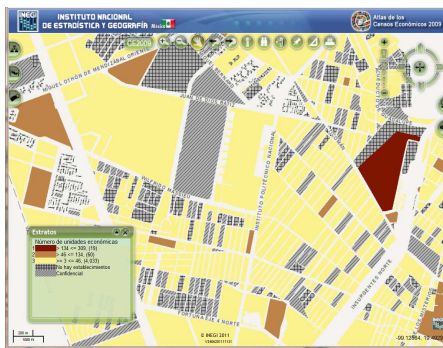
Urban Cartographic database



Economic Census Atlas

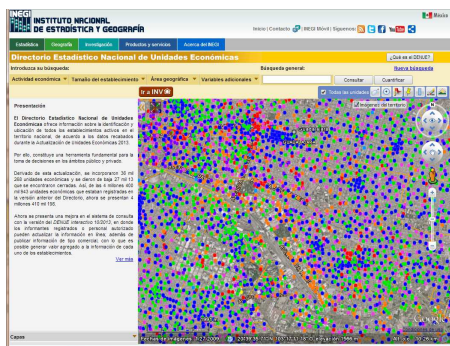


Total economic units by state

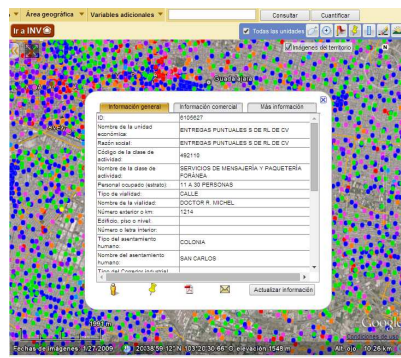


Total economic units by block (Mexico City)

DENUE (Business Registry)



Economic units (Guadalajara city)



Data for a single economic unit

Gender Atlas

46 Gender-related indicators (geo-referenced)

10 main areas:

- General population
- Education
- Health
- Labor
- Decision making
- Use of time
- Poverty
- Entrepreneurship
- Violence
- % Indigenous population



http://gaia.inegi.org.mx/atlas_genero/

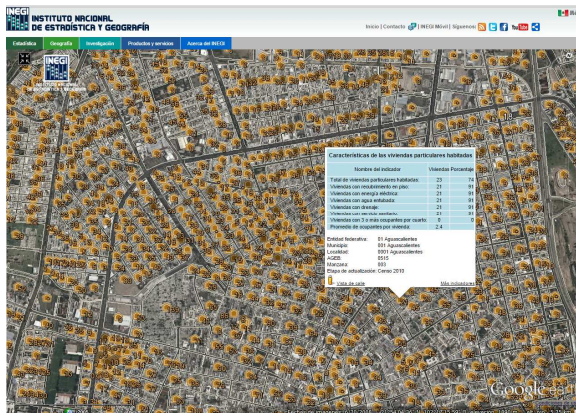
SDG preliminary indicators assessment



Based on INEGI's experience in integrating statistics and geospatial information, some SDG indicators are currently being spatially referenced, as follows:

SDG 1 - No poverty

Indicator 1.4.1 Proportion of the population living in households with access to basic services



Source:
National Housing Inventory
(geo-referenced)

Visualized within the Digital Map of Mexico


Indicator	Geographic coverage	Source	Disaggregation
1. Percentage of population performing unpaid work	National, states and municipality	Population census	Age / age groups
2. Average number of hours devoted to unpaid work • e.g. Domestic, care for children, elderly or disabled		Economic census	Gender
		Inter-census surveys	Location
		Gender Atlas	Type of activity/care



Linked to SDG indicators

5.4.1 Proportion of time spent on unpaid domestic and care work, by sex, age and location (tier II)

$$PPTNR_s = \frac{100 * PTNR_s}{TP_s}$$




Gender-related Indicators


Indicator	Geographic coverage	Source	Disaggregation
1. Prevalence of violence (physical or sexual) against women <ul style="list-style-type: none"> Total Age-specific, childhood, throughout life 	National, states and municipality	Population census Inter-census surveys Administrative records Gender Atlas	Age Gender Location Marital status


Linked to SDG indicators:

5
GENDER
EQUALITY



- 5.2.1** Proportion of ever-partnered women and girls aged 15 years and older subjected to physical, sexual or psychological violence by a current or former intimate partner in the previous 12 months, by form of violence and by age (tier II)
- 5.2.2** Proportion of women and girls aged 15 years and older subjected to sexual violence by persons other than an intimate partner in the previous 12 months, by age and place of occurrence (tier II)






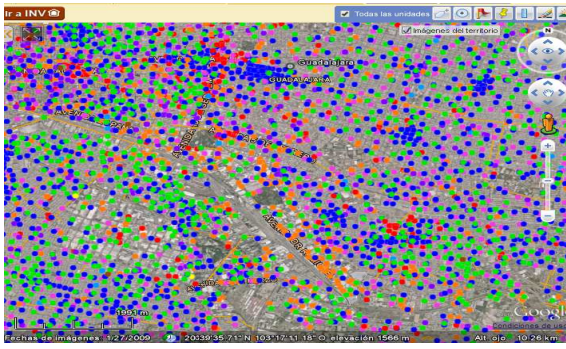
Socio-economic Indicators

SDG 8. Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all


Indicator 8.3.1 Share of informal employment in non-agriculture employment by gender

8
DECENT WORK AND
ECONOMIC GROWTH





Sources:
National Employment Survey visualized within the Digital Map of Mexico

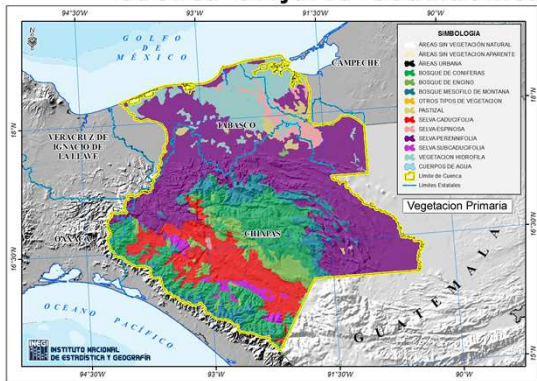

Environmental Indicators


SDG 15. Life on land

Indicator 15.1.2 Forest area as a percentage of total land area


Indicator 15.2.1 Progress towards sustainable forest management

Cuenca Grijalva-Usumacinta






Source:
INEGI's Land Use and Vegetation Map Series Visualized in the Digital Map of Mexico (various scales available)



Environmental Indicators

SDG 15. Life on land

Target 2: By 2020, promote the implementation of sustainable management of all types of forests, halt deforestation, restore degraded forests and substantially increase afforestation and reforestation globally


Indicator 15.2.2 Net permanent forest loss






Changes in tropical broadleaf evergreen forest can be estimated


Marqués de Comillas, Chiapas
Satellite images (from 2006 and 2013).




SNI-G Sistema Nacional de Información Estadística y Geográfica		Government Indicators			
Indicator	Geographic coverage	Source	Disaggregation	National Results	
				2013	2015
1. Percentage of the population aged 18 and over that victim of corruption <i>(Population aged 18 and over who were victims of corruption in at least one procedure, payment or service made personally / Population of 18 years and over who performed at least one procedure, payment or request for service personally with a public official) x 100</i>	National and by federal entity (states)	National Survey of Quality and Government Impact	Geo-referenced	12.1	12.6

	<p>These indicators measure experiences with acts of corruption in the interaction with public officials</p> <p>SDG Indicator 16.5.1 Proportion of persons who had at least one contact with a public official, and who paid a bribe to a public official, or were asked for a bribe by those public officials, during the previous 12 months</p>
	<p>Link to public policy: National Anti-Corruption System</p>


SNI-G Sistema Nacional de Información Estadística y Geográfica		Government Indicators			
Indicator	Geographic coverage	Source	Disaggregation	National Results	
				2013	2015
2. Percentage of population aged 18 and over satisfied with basic public services, by type of service. <i>(Population aged 18 and over who is satisfied with basic public services / Population aged 18 and over who live in urban areas of 100,000 people and more) x 100</i>	National by State	National Survey of Quality and Government Impact (ENCIG)	Garbage collection Drinking water Public parks and gardens Street lighting Streets and avenues	67.3 57.6 40.1 35.3 21.8	61.0 51.7 38.0 33.0 20.7

	<p>This indicator is associated with measuring quality in the provision of basic public services at the municipal level</p> <p>SDG Indicator 16.6.2 <i>Proportion of the population satisfied with their last experience of public services</i></p>
	<p>Note: Based on the upcoming ENCIG results, a drainage and sewer service indicator will be included.</p>

SNIEG		Government Indicators			
Indicator	Geographic coverage	Source	Disaggregation	National Results	
				2013	2015
3. Percentage of the population aged 18 and over satisfied with public educational services, by educational level <i>(Population of 18 years and over who uses the services of education that is satisfied with the service / Population of 18 years and over user of the education services) x 100</i>	National by States	National Survey of Quality and Governmental Impact (ENCIG)	Compulsory public education (Primary, secondary, high school)	62.0	61.0
			University public education	79.3	78.0

	<p>The indicator is associated with quality in the provision of public educational services.</p> <p>SDG Indicator 16.6.2 Proportion of the population satisfied with their last experience of public services</p>
	<p>Link to public policy: Education Sector Programme 2013-2018</p>


SNIEG		Government Indicators			
Indicator	Geographic coverage	Source	Disaggregation	National Results	
				2013	2015
4. Percentage of the population aged 18 and over satisfied with the electricity service. <i>(Population of 18 years and over that are users of the electric power service that is satisfied with the service / Population of 18 years and over users of the electric power service) x 100</i>	National by States	National Survey of Quality and Governmental Impact (ENCIG)	No	78.3	73.5

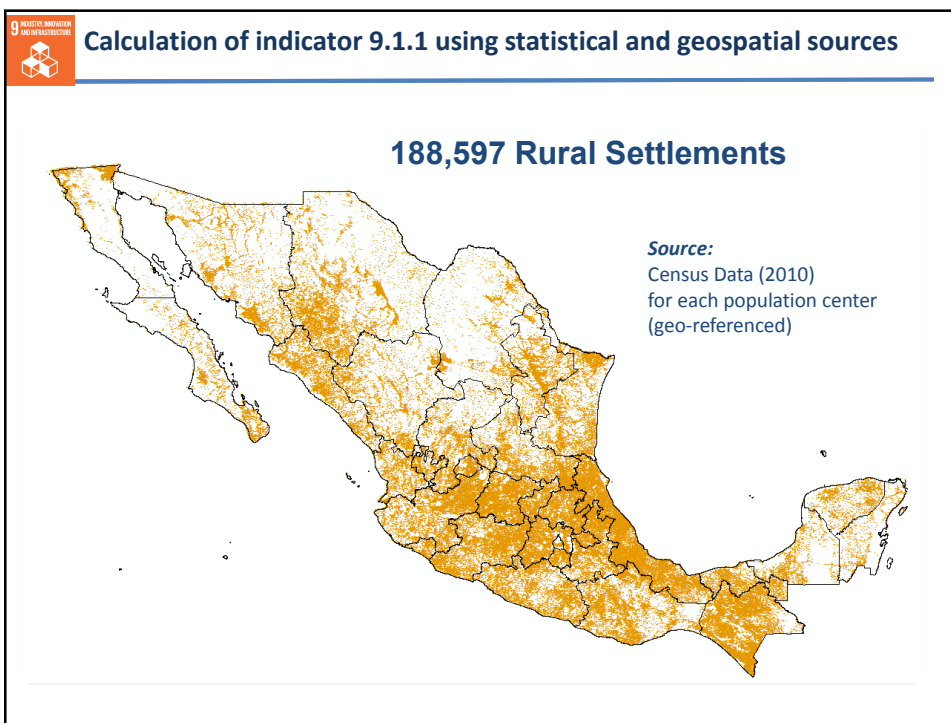
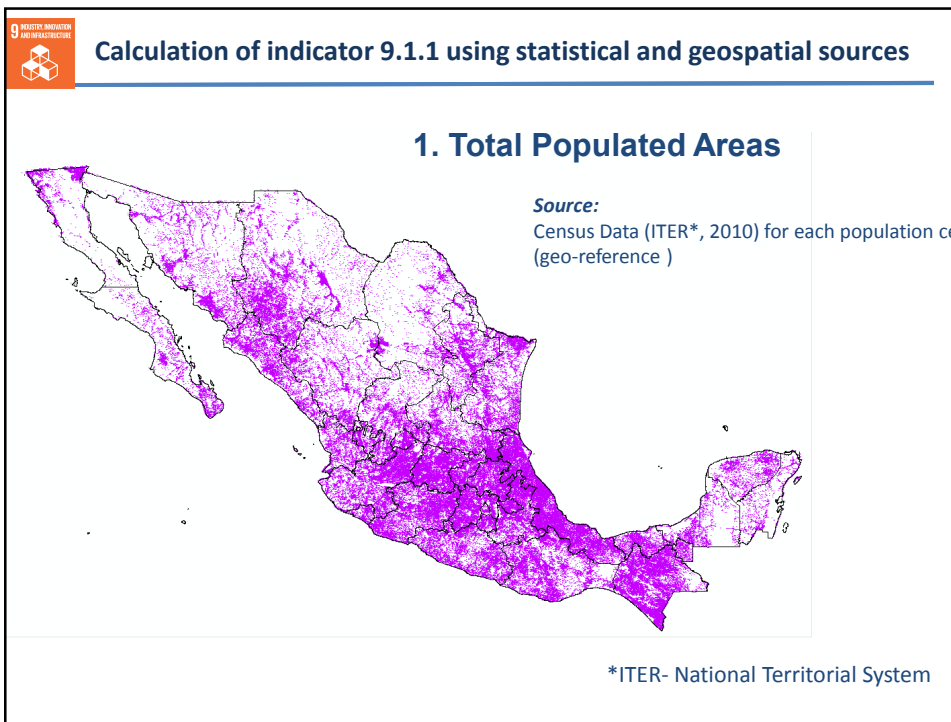
	<p>This indicator is associated with measuring the quality of the electric power service</p> <p>SDG Indicator 16.6.2 Proportion of the population satisfied with their last experience of public services</p>
	<p>Link to public policy: ✓ National Development Plan 2013-2018. ✓ Program for Development of the National Electricity System 2016 - 2030</p>

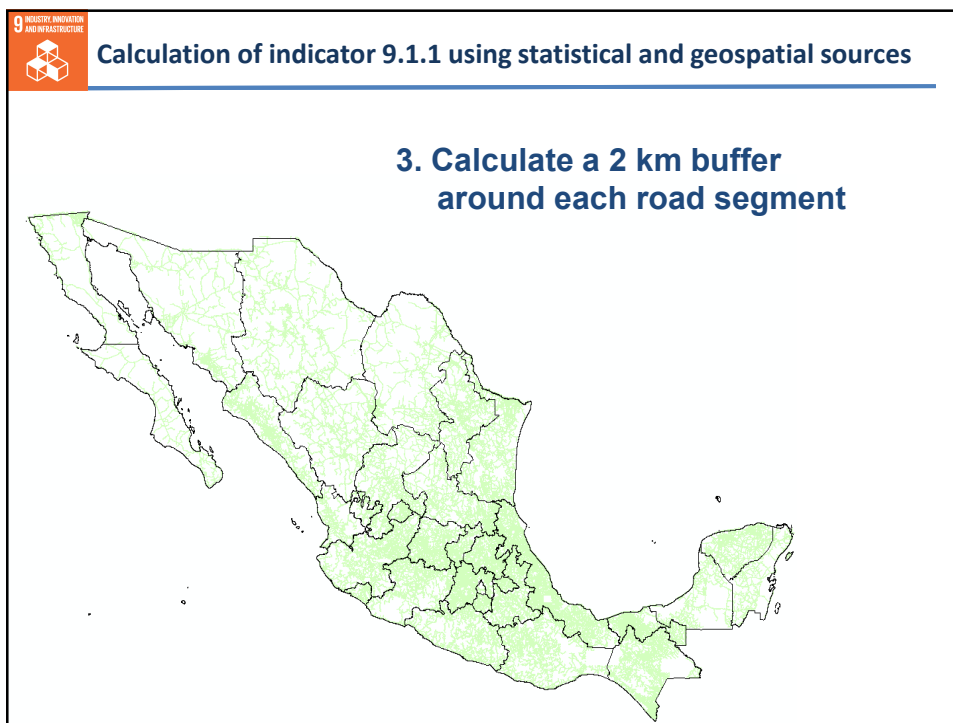
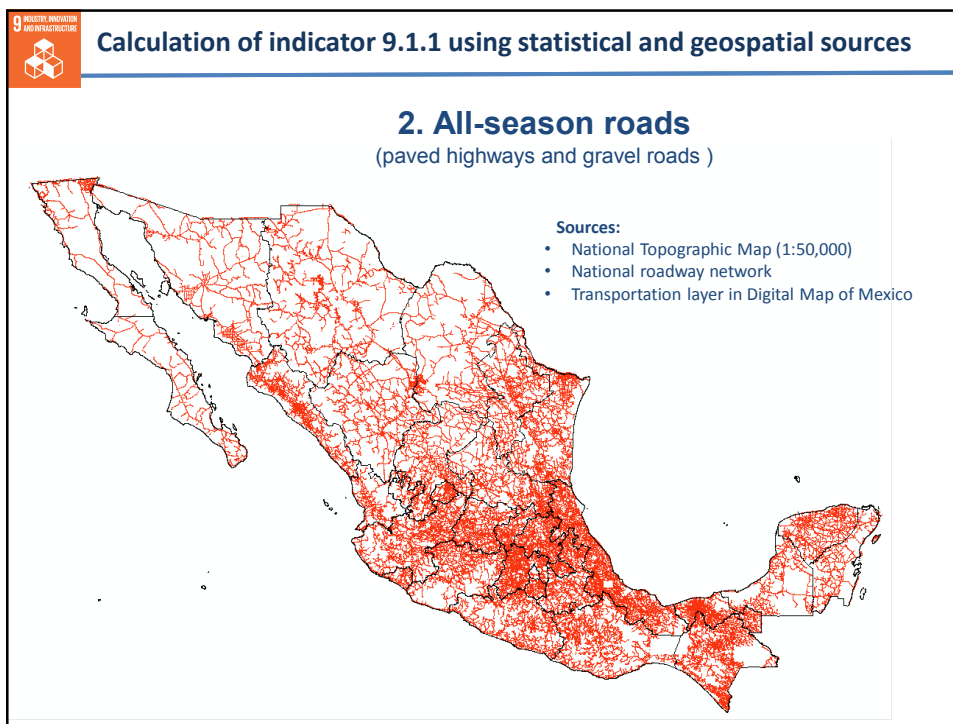
SNIEG Sistema Nacional de Información Estadística y Geográfica		Government Indicators			
Indicator	Geographic coverage	Source	Disaggregation	National Results	
				2013	2015
5. Percentage of the population aged 18 and over satisfied with public health services, by type of provider. <i>(Population of 18 years and over users of health services who are satisfied with the services received / Population of 18 years and more users of health services) x 100</i>	National by States	National Survey of Quality and Governmental Impact (ENCIG)	State Health or Popular Insurance	54.9	47
			Institute of Social Security and Services for State Workers (ISSSTE)	56.8	41.6
			Mexican Social Security Institute (IMSS)	52.7	38.8

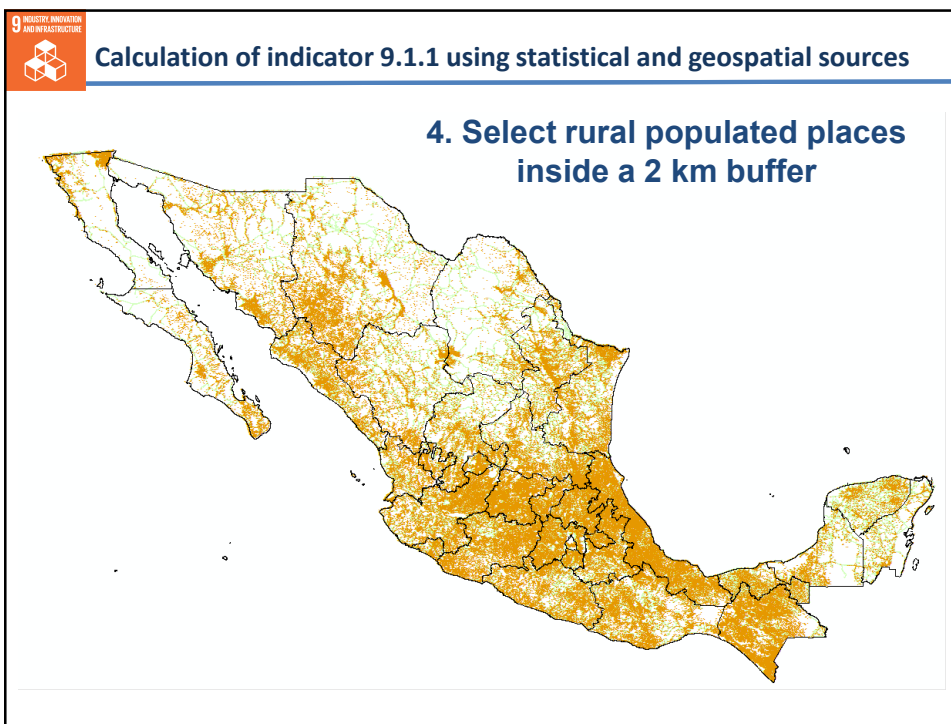
16 PEACE, JUSTICE AND STRONG INSTITUTIONS 	<p>The indicator is associated with measuring quality in the provision of public health services</p> <p><u>SDG Indicator 16.6.2</u> Proportion of the population satisfied with their last experience of public services</p>
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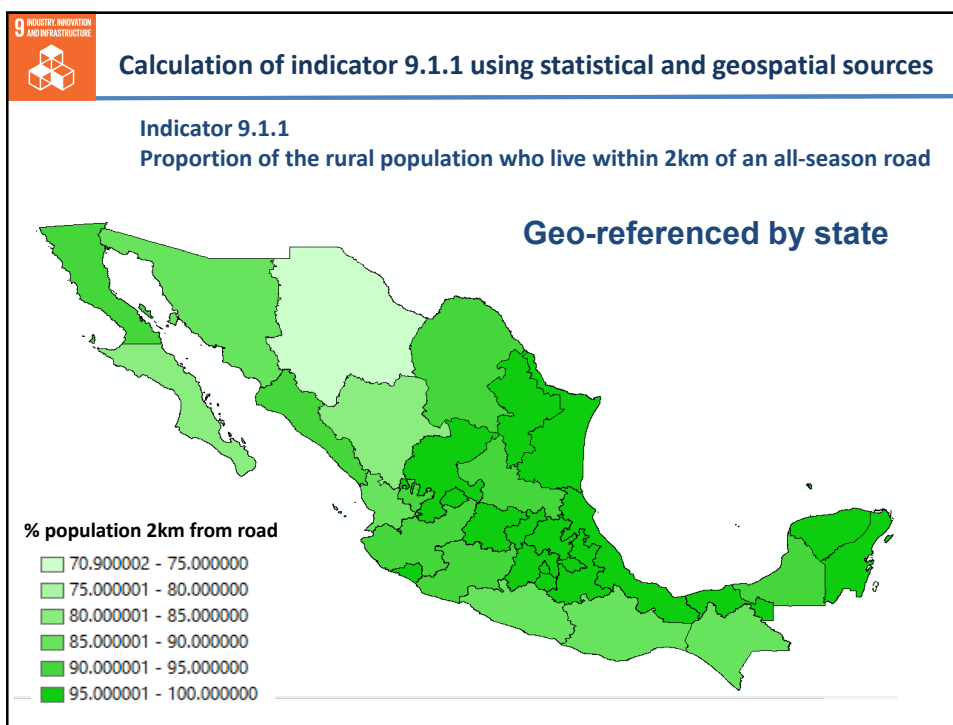
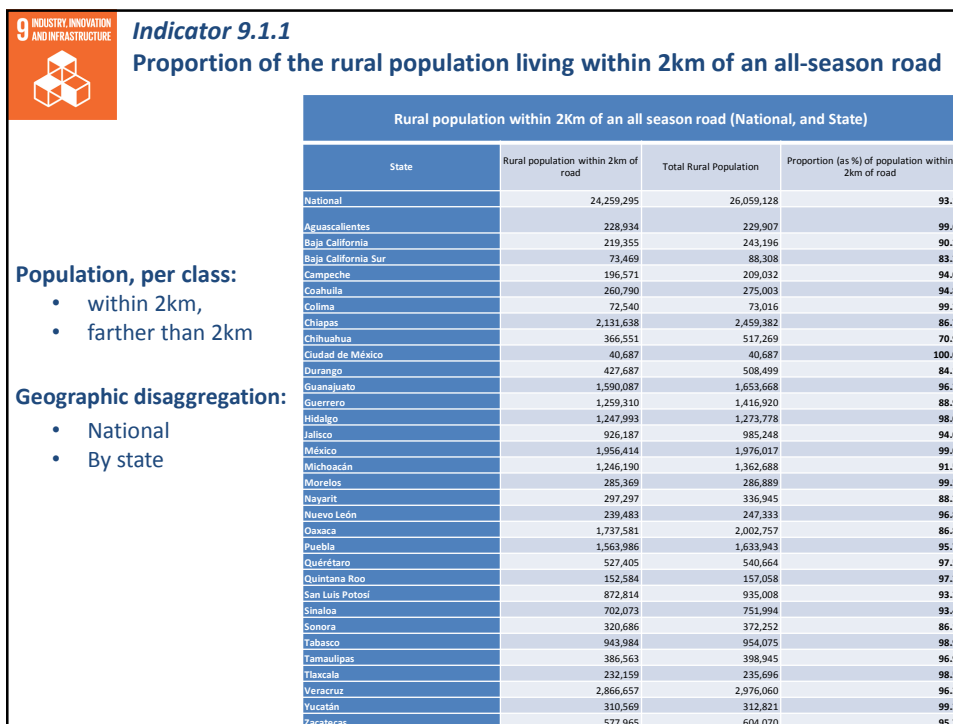
Link to public policy:
Health Sector Program 2013-2018

SNIEG Sistema Nacional de Información Estadística y Geográfica		Socio-economic Indicators	
<p>SDG 9. Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation</p> <p>Indicator 9.1.1 Proportion of the rural population who live within 2km of an all-season road</p>			
<p><u>Statistical data:</u> Census Data (ITER 2010) for each population center, with total population, and other census variables, and longitude, latitude for geospatial purposes (192,244 places). Select populated places with 2,500 and less inhabitants as rural.</p>		<p><u>Geospatial data:</u> National Topographic Data Set 1:50,000. Transportation Layer. Paved highways and gravel roads as all-season roads.</p>	









Collaborative platform for disaster preparedness

When disasters strike, or when they can be foreseen, **geospatial information becomes a critical asset** for actions that mitigate its effects. This information must be accessible, timely, inter-operable and of good quality, to offer the best response.



Collaborative platform for disaster preparedness

Multi-layer web platform

Input from/access to all relevant agencies

Combines layers on population, economic & environmental data

Includes satellite/radar imagery & real-time data

Data available prior, during and post-emergencies



geospatial information as a critical asset for disaster management



SDGs related to Disasters




There are **25 targets** related to disaster risk reduction **in 10 of the 17 SDGs**, firmly establishing the role of disaster risk reduction as a core development strategy.


Alignment between Sendai targets and the SDGs

Five of the Sendai proposed indicators contribute to measuring four of the SDG targets (UNISDR):


- **SDG target 1.5** (By 2030 build the resilience of the poor and those in vulnerable situations, and reduce their exposure and vulnerability to climate-related extreme events and other economic, social and environmental shocks and disasters)
- **Sendai Target A:** 'Number of deaths, missing persons and persons affected by disaster per 100,000 people;' 'Direct disaster economic loss in relation to global GDP;' and 'Number of countries with national and local DRR strategies.'
- **SDG target 11.5** (By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global GDP caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations)
- **Sendai Target A:** 'Number of deaths, missing persons and persons affected by disaster per 100,000 people;' and 'Direct disaster economic loss in relation to global GDP, including disaster damage to critical infrastructure and disruption of basic services.'
- **SDG target 11.b** (By 2020, substantially increase the number of cities and human settlements adopting and implementing integrated policies and plans towards inclusion, resource efficiency, mitigation and adaptation to climate change, resilience to disasters, and develop and implement, in line with the Sendai Framework for DRR, holistic disaster risk management at all levels)
- **Sendai Target E:** 'Number of countries with national and local disaster risk reduction strategies;' and 'Proportion of local governments that adopt and implement local DRR strategies in line with Sendai.;
- **SDG target 13.1** (Strengthen resilience and adaptive capacity to climate related hazards and natural disasters in all countries) is addressed by the
- **Sendai Target A:** 'Number of deaths, missing persons and persons affected by disaster per 100,000 people;' 'Number of countries with national and local DRR strategies;' and 'Proportion of local governments that adopt and implement local DRR strategies in line with Sendai.'

11
SUSTAINABLE CITIES
AND COMMUNITIES


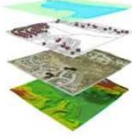
Sustainable Urban Development (SDG11) Climate Action (SDG13)

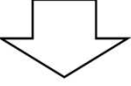
13
CLIMATE
ACTION


**Collaborative Site for
Disaster Attention**



DENUE






Digital Map of Mexico

**Technical Committee on
Urban and territorial
development**

SDG Target 11.5 Disaster Preparedness

By 2030, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on protecting the poor and people in vulnerable situations

- **Indicator 11.5.1** - Number of deaths, missing and persons affected by disaster per 100,000 people
- **Indicator 11.5.2** - Direct disaster economic loss in relation to global GDP, including disaster damage to critical infrastructure and disruption of basic services
- **Indicator 13.1.2** Number of countries that adopt and implement national disaster risk reduction strategies in line with the Sendai Framework for Disaster Risk Reduction 2015-2030



IV. International collaborations

Participation in relevant international initiatives



- Inter-agency and Expert Group on SDG indicators (IAEG-SDGs)
 - Working Group on Geospatial Information (WGGI)
- UN-GGIM: Working Group on Geospatial Information and Services for Disasters
- UN-Habitat: City Prosperity Initiative (CPI)
- Group on Earth Observations (GEO): EO in support of Agenda 2030 (EO4SDGs)
- Task Force on Measuring Extreme Events and Disasters, coordinated by the UN Regional Economic Commission for Europe (UNECE);



ONU@HABITAT
FOR UN MEC FOR FUTURE URBANS



22-24 MAY, 2017 | CANCUN, MEXICO
2017 GLOBAL PLATFORM
FOR DISASTER RISK REDUCTION

FROM COMMITMENT TO ACTION



Working Group on Geospatial Information

IAEG-SDGs

Inter-agency Expert Group on SDG Indicators

- Tasked with analyzing the SDG indicator framework “through a geospatial information” lens
- Composed of statistical & geospatial experts from 13 countries, UN-GGIM, GEO, OECD and other invited experts

Analysis from first WGGI meetings – Mexico City (Dec 2016) & Kunming (May 2017):

- Consensus around a short-list of 15 indicators where geospatial information together with statistical data can contribute directly to the production of the identified indicators

• Tier I	9.c.1	14.5.1	15.1.1	15.1.2				
• Tier II	11.2.1	11.3.1	15.4.1					
• Tier II	2.4.1	6.3.2	6.5.2	6.6.1	9.1.1	11.7.1	14.2.1	15.3.1

- An additional short-list of 9 indicators where geospatial information can significantly support the production of these indicators

• Tier I	1.1.1	(4.5.1)				
• Tier II	5.2.2	5.4.1	15.4.2	(4.5.1)		
• Tier III	1.4.2	5.a.1	5.a.2	11.7.2	(4.5.1)	

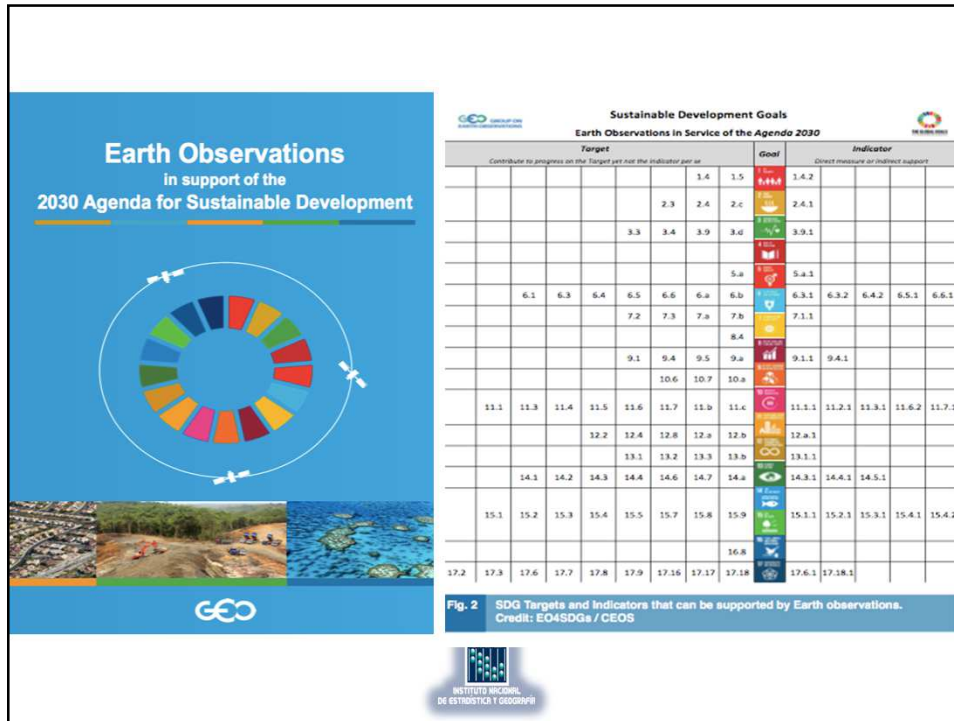


UN-GGIM

United Nations Secretariat
Global Geospatial Information Management

Positioning geospatial information to address global challenges

ggim.un.org



City Prosperity Initiative (CPI)

THE DIMENSIONS

Productivity

The productivity dimension measures the average achievements of the cities in terms of creating wealth and how it's shared, or cities contribution to economic growth and development, generation of income, provision of decent jobs and equal opportunities for all.

Infrastructure Development

The Infrastructure dimension measures the average achievement of the city in providing adequate infrastructure for accessing clean water, sanitation, good roads, and information and communication technology - in order to improve living standards and enhance productivity, mobility and connectivity.

Quality of Life

The quality of life dimension measures the cities' average achievement in ensuring general wellbeing and satisfaction of the citizens.

Equity and Social Inclusion

The Equity and Social inclusion dimension measures the cities' average achievements in ensuring equitable (redistribution of the benefits of prosperity, reduces poverty and the incidence of slums, protects the rights of minority and vulnerable groups, enhances gender equality, and ensures equal participation in the social, economic, political and cultural spheres.

Environmental Sustainability

The Environmental Sustainability dimension measures the average achievement of the cities in ensuring the protection of the urban environment and its natural assets. This should be done simultaneously while ensuring growth, pursuing energy efficiency, reducing pressure on surrounding land and natural resources and reducing environmental losses through creative and environment-enhancing solutions.

Urban Governance and Legislation

The Urban Governance and Legislation dimension has the purpose of demonstrating the role of good urban governance in catalysing local action towards prosperity, including the capacity to regulate the urbanization process.

CPI in Mexico

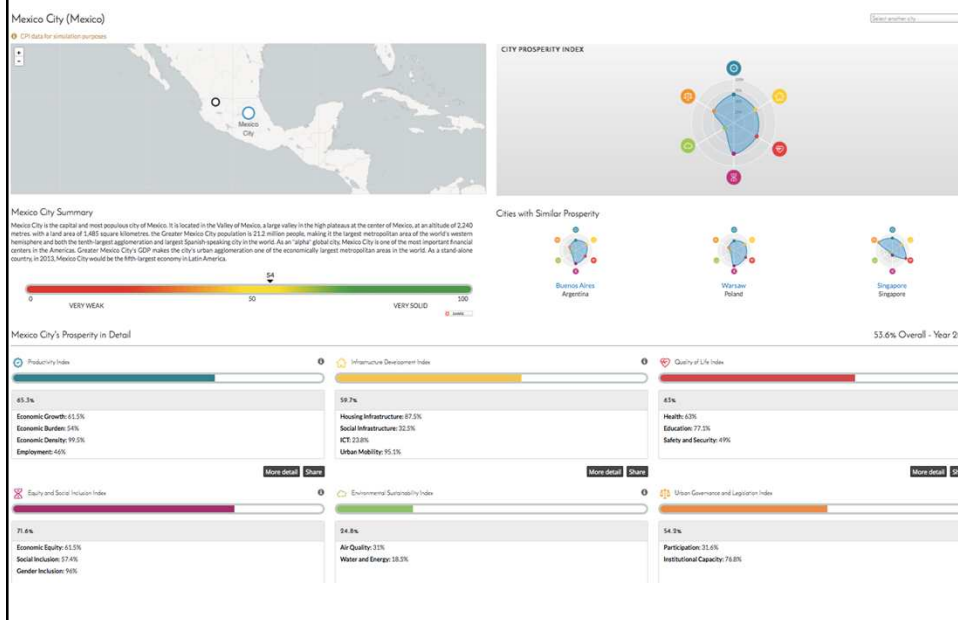
137 municipalities under monitoring

- The Mexican Housing Development Bank (INFONAVIT) and UN-Habitat committed to implement the Urban Prosperity Initiative in Mexico, calculating the **CPI for 137 municipalities and 16 delegations**.
- The CPI was used as a strategy to evaluate how the housing sector can impact on urban prosperity and contribute to design more integrated housing policies.
- Mexico is the country where **more urban diagnoses are made in the world**:
- 51.4% of total population and 69.70% of total urban population.

Monitor progress and undertake action for integrated urban policies:

- **Better Infrastructure**, urban mobility and public spaces
- **Improved Urban Services**: enhanced public policies framework for better decision making.
- **Improved Data Monitoring**: for housing developers, urban planners and local authorities, for more compact, socially diverse and functional cities.

Example: CPI monitoring in Mexico City



General Law on Human Settlements, Land Use Planning and Urban Development

Aligned with UN-Habitat CPI standards and related SDGs

Proclaimed in
November, 2016

Basic standards and management instruments to order the use of the territory, and human settlements in the country, with full respect for human rights.



All people have the right to live and enjoy cities:

- Sustainable
- Resilient
- Healthy
- Productive
- Equitable,
- Fair
- Including
- Democratic and secure

• Through coordinated work between the federation, the states and municipalities.

• As well as instruments of Planning:

National Program for Territorial and Development
Planning Urban
National Development Plan
National Planning Strategy

• And of mechanisms of social surveillance composed by:

Neighbors, users, academic institutions, social organizations, professional colleges, institutes and observatories.

Conclusions

- Integration of Geospatial and Statistical information facilitates location & assessment of SDGs progress over time at all scales
- Geospatial information and disaggregation facilitates the monitoring of social, economic and environmental indicators to support, design and monitoring of public policies.
- Harmonization between SDG and Sendai indicators can be greatly enhanced by geospatial and EO information; this integration particularly applies to resilience-building in urban settings: