

Evaluation of the WGGI Shortlist Indicators

Inter-Agency and Expert Group on the Sustainable Development Goals Indicators (IAEG-SDG) Working Group on Geospatial Information



UN-GGIM

United Nations Committee of Experts on
Global Geospatial Information Management

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IAEG SDG WGGI





- Established by the Inter Agency and Expert Group on Sustainable Development Goal Indicators to provide expertise and advice as to how geospatial information, earth observations and other data sources can reliably and consistently contribute to the indicators.
- The primary objective of the WG is to ensure from a statistical and geographic location perspective that the key principle of the 2030 Agenda is reflected in the Global indicator framework.



ASSESSMENT OF THE WGGI SHORTLIST

- The global indicator framework was reviewed through a geographic location lens. The IAEG-SDG WGGI has reported on a "Geospatial" [Shortlist](#) from its second meeting in Mexico:
 - 15 indicators where geospatial data is needed
 - 9 indicators where geospatial data can support the indicator
- At the third meeting in Kunming one conclusion was for the countries in the WGGI to make national assessments of the shortlist.













PREPARING FOR THE NATIONAL REPORTING

-  Possible to report or already being reported
-  Possible to develop: data integration needed or changes to current surveys
-  Very difficult to report, no current survey, no available method
-  Not relevant / Global data enough

Mexico's assessment to the SDG Indicators Shortlist











MEXICO

ASSESSMENT OF THE WGGI SHORTLIST

Indicator		Tier	Global	National
2.4.1	Proportion of agricultural area under productive and sustainable agriculture	III		
6.3.2	Proportion of bodies of water with good ambient water quality	III		
6.5.2	Proportion of transboundary basin area with an operational arrangement for water cooperation	III		
6.6.1	Change in the extent of water-related ecosystems over time	III		
9.1.1	Proportion of the rural population who live within 2 km of an all-season road	III		
9.c.1	Proportion of population covered by a mobile network, by technology	I		









MEXICO

ASSESSMENT OF THE WGGI SHORTLIST

Indicator		Tier	Global	National
11.2.1	Proportion of population that has access to public transport, by age, sex and persons with disabilities	II		
11.3.1	Ratio of land consumption rate to population growth rate	II		
11.7.1	Average share of the built-up area of cities that is open space for public use for all, by sex, age etc	III		
14.2.1	Proportion of national Exclusive Economic Zones managed using ecosystem-based approaches	III		
14.5.1	Coverage of protected areas in relation to marine areas	I		









MEXICO

ASSESSMENT OF THE WGGI SHORTLIST

Indicator		Tier	Global	National
15.1.1	Forest area as a proportion of total land area	I		
15.1.2	Proportion of important sites for terrestrial and freshwater biodiversity that are covered by protected areas, by ecosystem type	I		
15.3.1	Proportion of land that is degraded over total land area	III		
15.4.1	Coverage by protected areas of important sites for mountain biodiversity	I		


MEXICO

ASSESSMENT OF THE WGGI SHORTLIST

Indicator		Tier	Global	National
1.1.1	Proportion of population below the international poverty line, by sex, age, employment status and geographical location (urban/rural)	I		
1.4.2	Proportion of total adult population with secure tenure rights to land, by sex and by type of tenure	III		
4.5.1	Parity indices (female/male, rural/urban etc. as data become available)	I-II-III		
5.2.2	Proportion of women and girls aged 15 years and older subjected to sexual violence, by age and place of occurrence	II		





MEXICO

ASSESSMENT OF THE WGGI SHORTLIST

Indicator		Tier	Global	National
5.4.1	Proportion of time spent on unpaid domestic and care work, by sex, age and location	II		
5.a.1	(a) Proportion of total agricultural population with ownership or secure rights over agricultural land, by sex; and (b) share of women among owners or rights-bearers of agricultural land, by type of tenure	III		
5.a.2	Proportion of countries where the legal framework (including customary law) guarantees women's equal rights to land ownership and/or control	III		

MEXICO

ASSESSMENT OF THE WGGI SHORTLIST

Indicator		Tier	Global	National
11.7.2	Proportion of persons victim of physical or sexual harassment, by sex, age, disability status and place of occurrence, in the previous 12 months	III		
15.4.2	Mountain Green Cover Index	II		

How to deal with Global Indicators assessed as



Some Examples from the Mexican Report

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE



INDICATOR 9.1.1

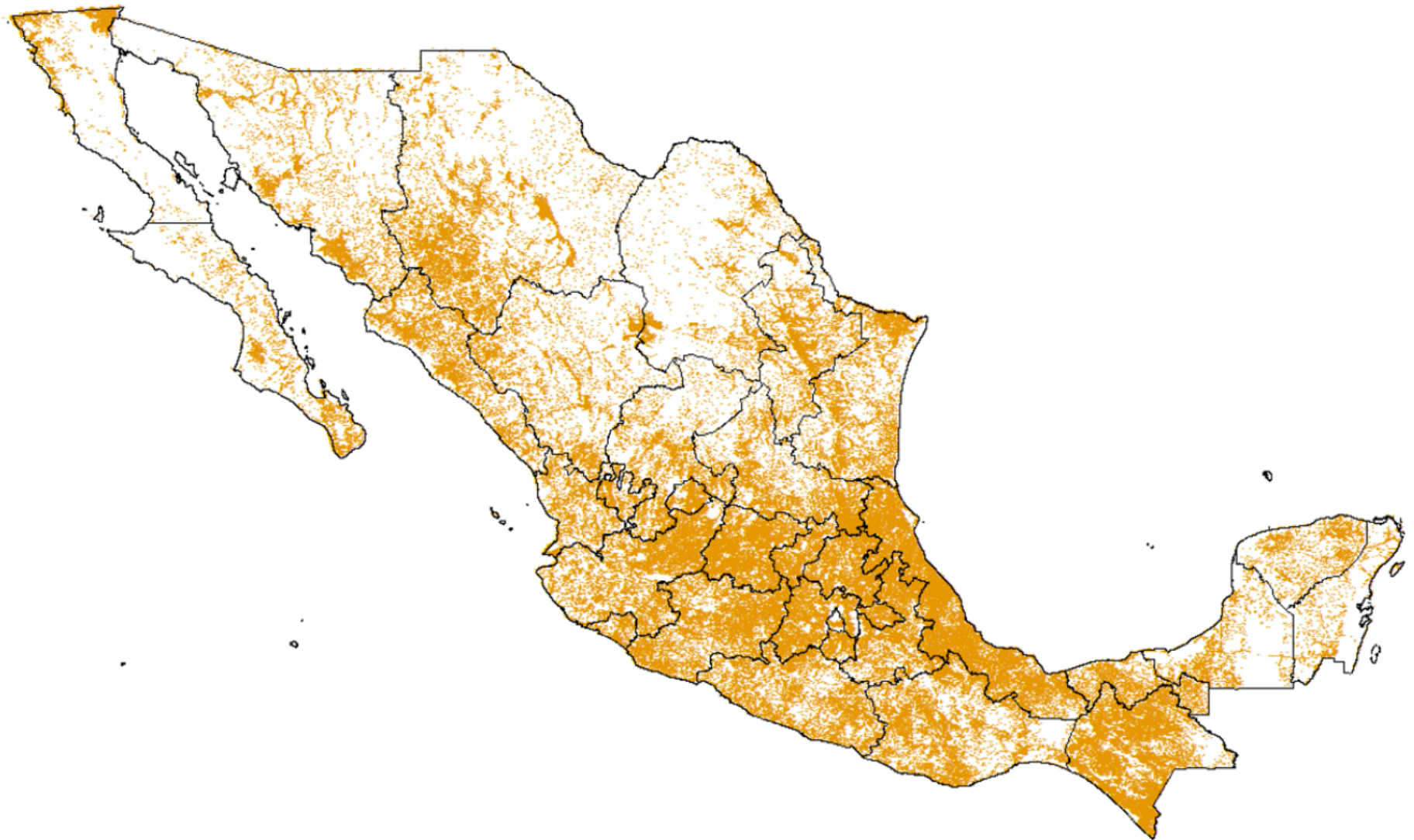
Proportion of the rural population who live within 2km of an all-season road

Target 9.1 Develop quality, reliable, sustainable and resilient infrastructure, to support economic development and human well-being with a focus on affordable and equitable access for all.

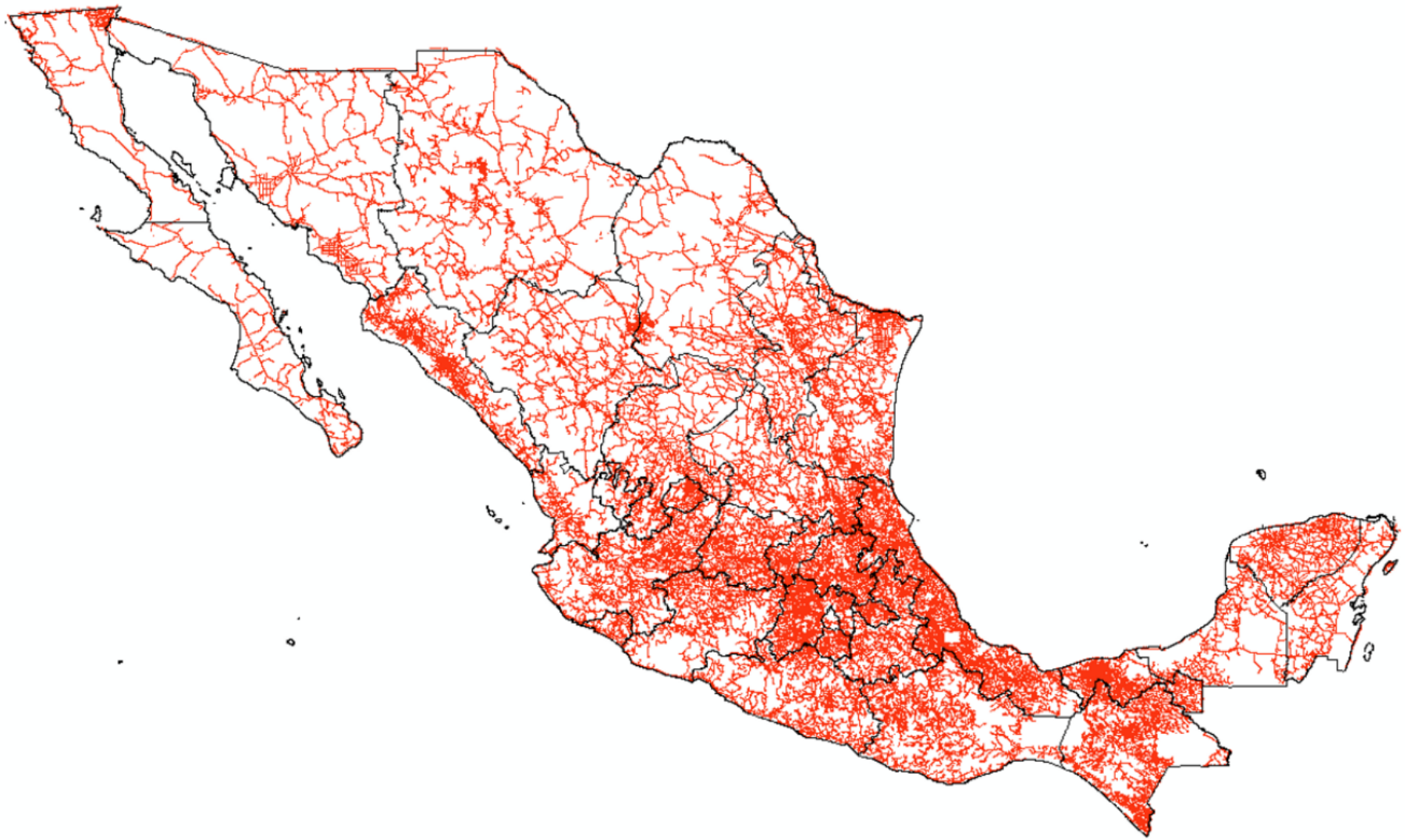
- **9.1.1 Proportion of the rural population who live within 2km of an all-season road.**
 - Statistical data: Census Data (ITER 2010) for each population center, with total population, and other census variables, and longitude, latitude for geospatial purposes (192,244 places).
 - Select populated places with 2,500 and less inhabitants as rural.
 - Geospatial data: National Topographic Data Set 1:50,000.
 - Transportation Layer.
 - Paved highways and gravel roads as all season roads.



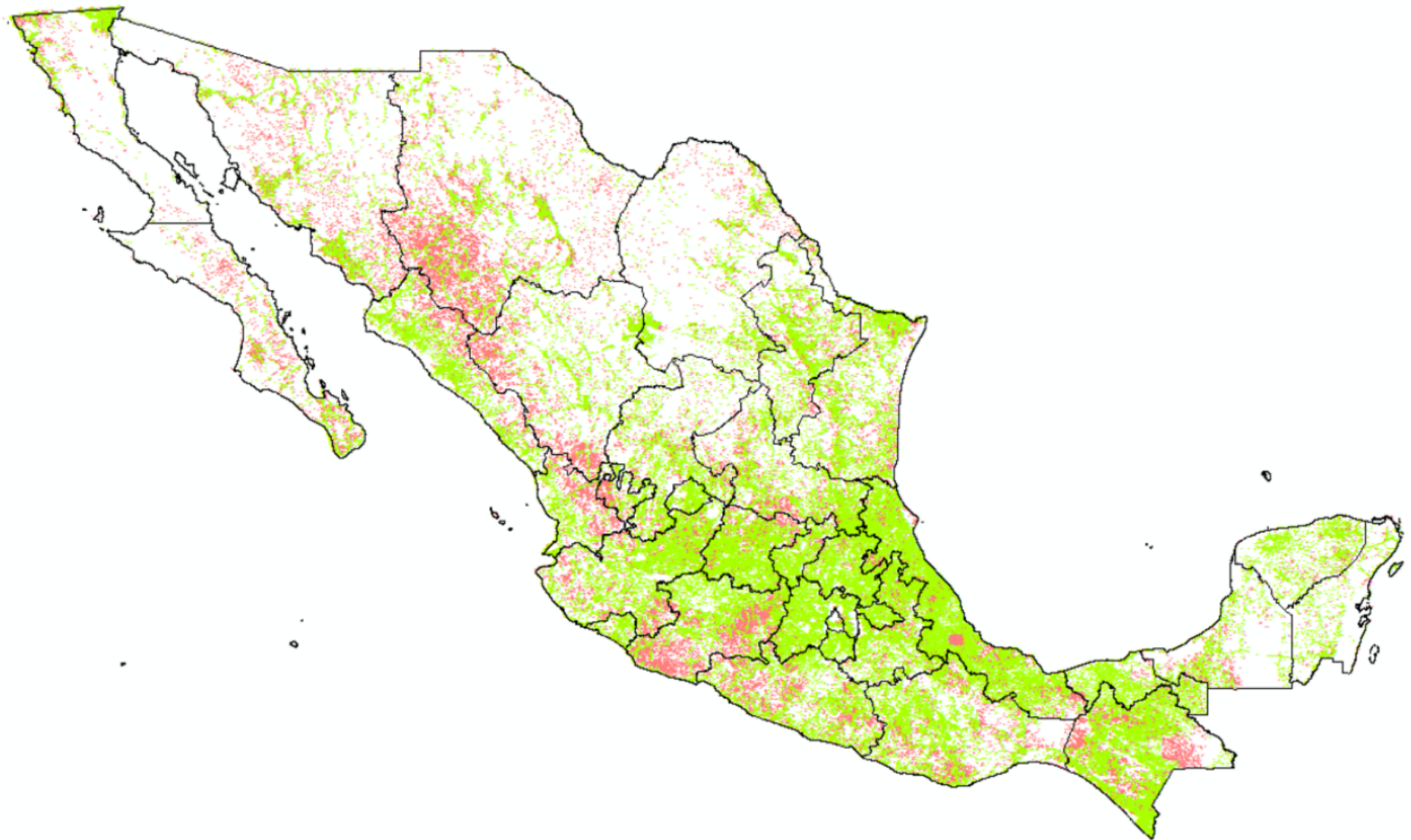
188,597 Rural Populated Places (ITER 2010)



All season roads



Result: Green pop places within 2km of road, pink, pop places farther than 2km from roads



Rural population within 2Km of an all season road (National, and State)

State	Rural population within 2km of road	Total Rural Population	Proportion (as %) of population within 2km of road
National	24,259,295	26,059,128	93.1
Aguascalientes	228,934	229,907	99.6
Baja California	219,355	243,196	90.2
Baja California Sur	73,469	88,308	83.2
Campeche	196,571	209,032	94.0
Coahuila	260,790	275,003	94.8
Colima	72,540	73,016	99.3
Chiapas	2,131,638	2,459,382	86.7
Chihuahua	366,551	517,269	70.9
Ciudad de México	40,687	40,687	100.0
Durango	427,687	508,499	84.1
Guanajuato	1,590,087	1,653,668	96.2
Guerrero	1,259,310	1,416,920	88.9
Hidalgo	1,247,993	1,273,778	98.0
Jalisco	926,187	985,248	94.0
México	1,956,414	1,976,017	99.0
Michoacán	1,246,190	1,362,688	91.5
Morelos	285,369	286,889	99.5
Nayarit	297,297	336,945	88.2
Nuevo León	239,483	247,333	96.8
Oaxaca	1,737,581	2,002,757	86.8
Puebla	1,563,986	1,633,943	95.7
Querétaro	527,405	540,664	97.5
Quintana Roo	152,584	157,058	97.2
San Luis Potosí	872,814	935,008	93.3
Sinaloa	702,073	751,994	93.4
Sonora	320,686	372,252	86.1
Tabasco	943,984	954,075	98.9
Tamaulipas	386,563	398,945	96.9
Tlaxcala	232,159	235,696	98.5
Veracruz	2,866,657	2,976,060	96.3
Yucatán	310,569	312,821	99.3
Zacatecas	577,965	604,070	95.7

Obtain total population for each class (within 2km, farther tan 2km)

- National
- By State

Total population for each class (within 2km, farther than 2km)

- National
- By state
- By municipality

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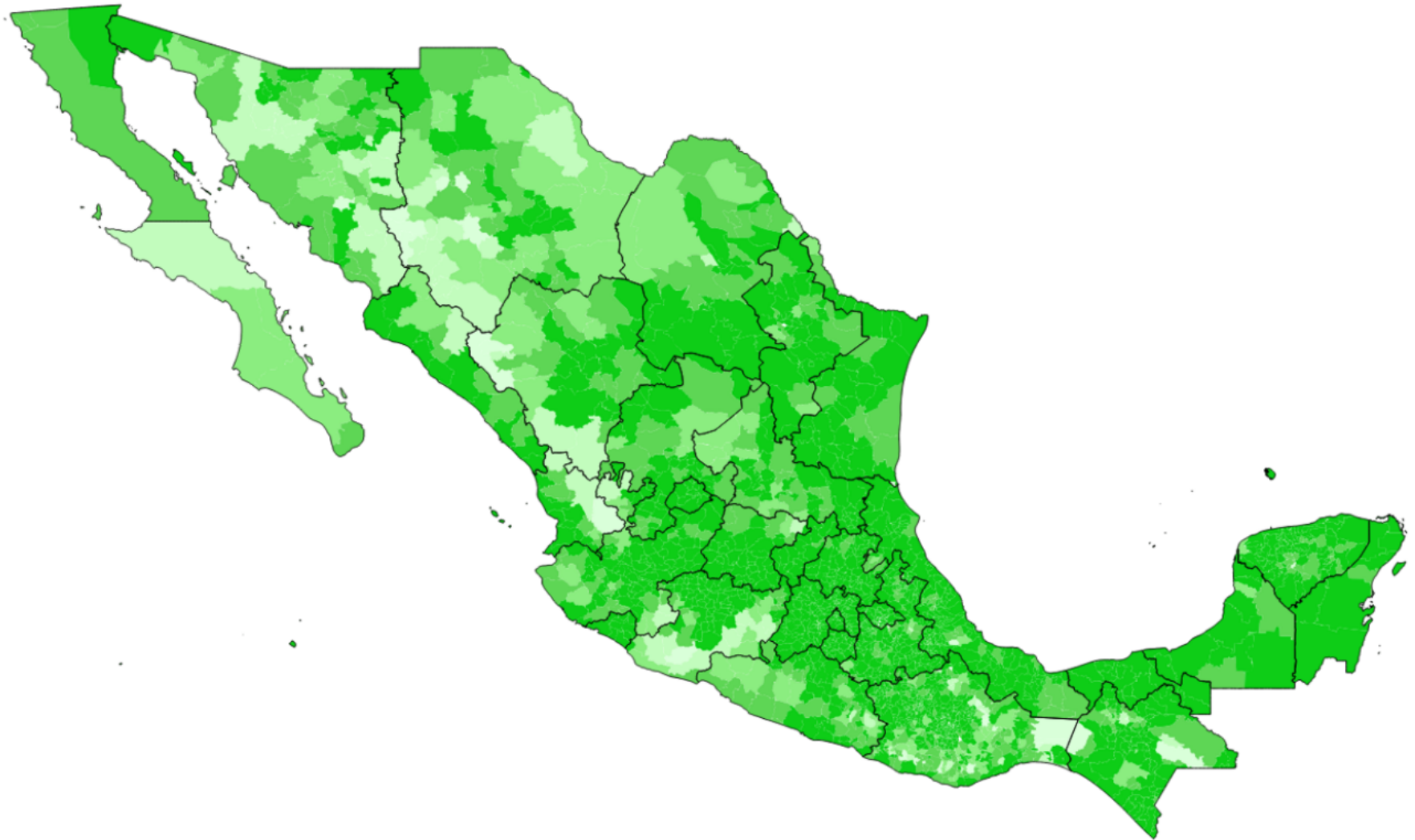
By State



By Municipalities

Municipality	Population 2km road	Total rural population	percentage of rural population 2km
16071	27685	27685	100
16072	4118	4445	65
16073	6044	6044	100
16074	3188	3217	85
16075	21868	21868	100
16076	5718	5718	100
16077	10812	10997	94
16078	5531	5531	100
16079	17221	17861	91
16080	13820	15720	70
16081	7573	8704	72
16082	33823	35610	86
16083	14693	22667	52
16084	4358	4472	95
16085	14007	14007	100
16086	5630	5630	100
16087	7093	7118	91
16088	40543	40687	98
16089	7189	7766	76
16090	1227	1227	100
16091	6588	6588	100
16092	6093	11064	35
16093	22999	24057	97
16094	3662	3662	100
16095	4357	4587	41
16096	2059	5089	11
16097	11233	22182	25
16098	15248	16904	64

By Municipalities





15.1.1 Forest area as a proportion of total land area

Target 15.1 By 2020, ensure the conservation, restoration and sustainable use of terrestrial and inland freshwater ecosystems and their services, in particular forests, wetlands, mountains and drylands, in line with obligations under international agreements.

- 15.1.1 Forest area as a proportion of total land area (Tier I)
 - This target can be derived totally from geospatial information.
 - Five map series of Vegetation and Land Use have been developed for Mexico
 - 57 Vegetation types, including Temperate Forests, Tropical Forests, Grasslands, Scrublands, Mangroves and others.
 - Other categories: Agricultural land, urban – built-up areas.



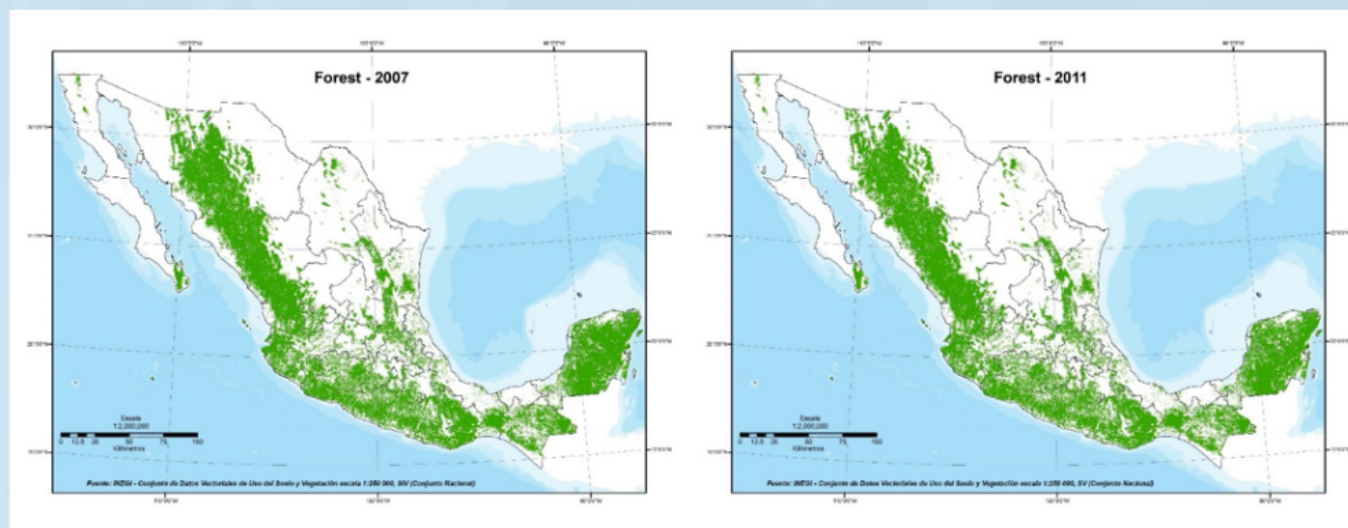
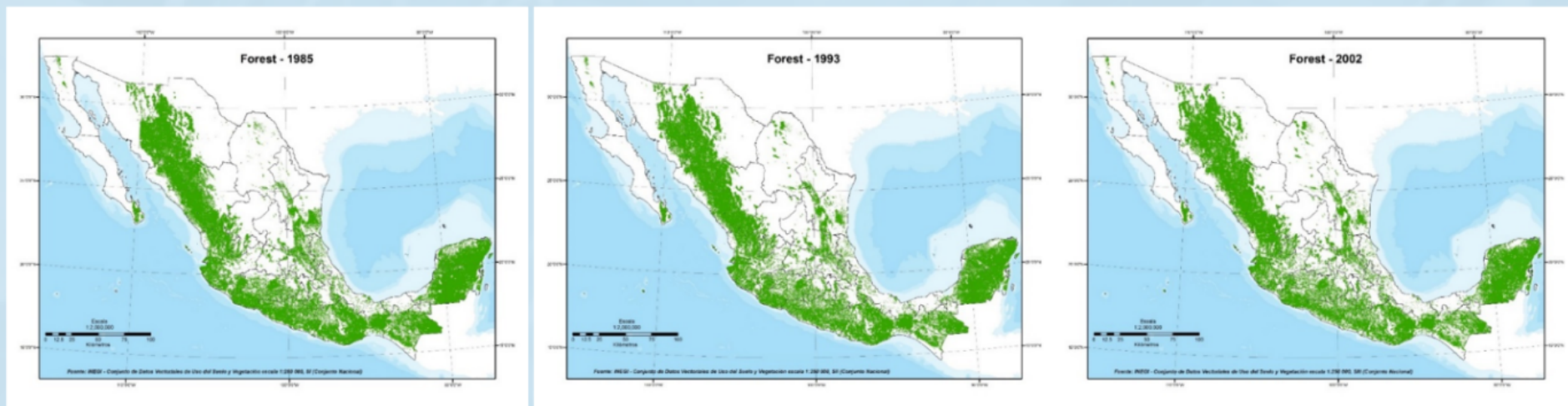
Methodology

- For the target, all forested classes are grouped for each map series.
- Includes primary and secondary growth forests.
- An appropriate map projection for area calculation is used (Albers Equiarea).
- Each forest polygon has area (m²) as one attribute.
- Sum area for all forest polygons.
- Forest area as a proportion of total land area is calculated as the percentage of forest area obtained vs. total country area.

Methodology

Forest area as a proportion of total land area

1985	1993	2002	2007	2011
36.8%	35.4%	34.5%	34.1%	33.7%



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