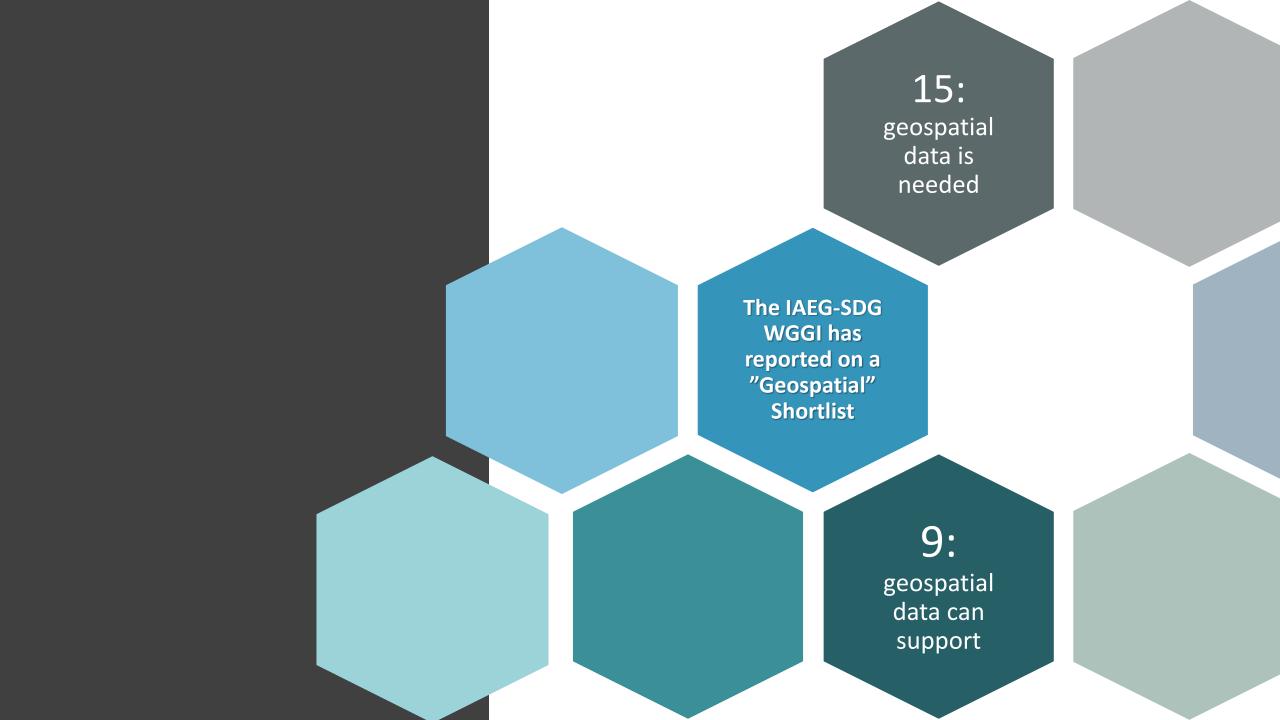


National assessment of the SDG indicators & observations



			A:	B:
		SDG	Geospatial data is needed	Geospatial data can support
		1		1.1.1 (۱)/ 1.4.2 (۱۱۱)
		2	2.4.1 (III)	
		4		4.5.1 (١/١١/١١١)
	SDG	5		5.2.2 (II)/ 5.4.1 (II)/ 5.a.1 (III)/ 5.a.2 (III)
	GEODA	6	6.3.2 (III)/ 6.5.2 (III) / 6.6.1 (III)	
	SHORTL	IST 9	9.1.1 (III) / 9.c.1 (I)	
		11	11.2.1 (II)/ 11.3.1 (II)/ 11.7.1 (II)	11.7.2 (III)
		14	14.2.1 (III)/ 14.5.1 (I)	
		15	15.1.1 (I)/ 15.1.2 (I)/ 15.3.1 (III)/ 15.4.1 (I)	15.4.2 (II)
		TOTAL	15	9

Indicator sublist A Proportion of agricultural area under productive and sustainable agriculture 2.4.1 6.3.2 Proportion of bodies of water with good ambient water quality 6.5.2 Proportion of transboundary basin area with an operational arrangement for water cooperation 6.6.1 Change in the extent of water-related ecosystems over time Proportion of the rural population who live within 2 km of an all-season road 9.1.1 Proportion of population covered by a mobile network, by technology 9.c.1 11.2.1 Proportion of population that has access to public transport, by age, sex and persons with disabilities Ratio of land consumption rate to population growth rate 11.3.1 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. Proportion of national Exclusive Economic Zones managed using ecosystem-based approaches 14.2.1 14.5.1 Coverage of protected areas in relation to marine areas Forest area as a proportion of total land area 15.1.1 Proportion of important sites for terrestrial and freshwater biodiversity that are covered by protected 15.1.2 areas, by ecosystem type 15.3.1 Proportion of land that is degraded over total land area 15.4.1 Coverage by protected areas of important sites for mountain biodiversity

sublist B

Indicator

- 1.1.1 Proportion of population below the international poverty line, by sex, age, employment status and geographical location (urban/rural)
- 1.4.2 Proportion of total adult population with secure tenure rights to land, by sex and by type of tenure
- 4.5.1 Parity indices (female/male, rural/urban etc as data become available)
- Proportion of women and girls aged 15 years and older subjected to sexual violence, by age and place of occurrence
- 5.4.1 Proportion of time spent on unpaid domestic and care work, by sex, age and location
- 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
- 5.a.2 Proportion of countries where the legal framework (including customary law) guarantees women's equal rights to land ownership and/or control
- Proportion of persons victim of physical or sexual harassment, by sex, age, disability status and place of occurrence, in the previous 12 months
- 15.4.2 Mountain Green Cover Index



- 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

Voluntary national assessment of Member's readiness to apply geospatial information in the production of indicators

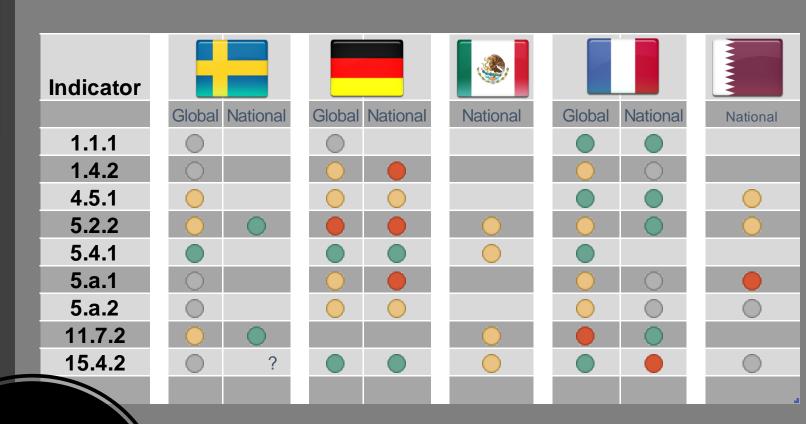
A voluntary review of readiness to utilize global and national geospatial data and satellite earth observations data sets in the production of indicators (based on the shortlist of 24 indicators)

Indicator								
	Global	National	Global	National	National	Global	National	National
2.4.1								
6.3.2								
6.5.2								
6.6.1								
9.1.1								
9.c.1								
11.2.1								
11.3.1								
11.7.1								
14.2.1								
14.5.1								
15.1.1								
15.1.2		?						
15.3.1								
15.4.1		?						

SUB-LIST A:

GEOSPATIAL DATA IS NEEDED Voluntary national assessment of Member's readiness to apply geospatial information in the production of indicators

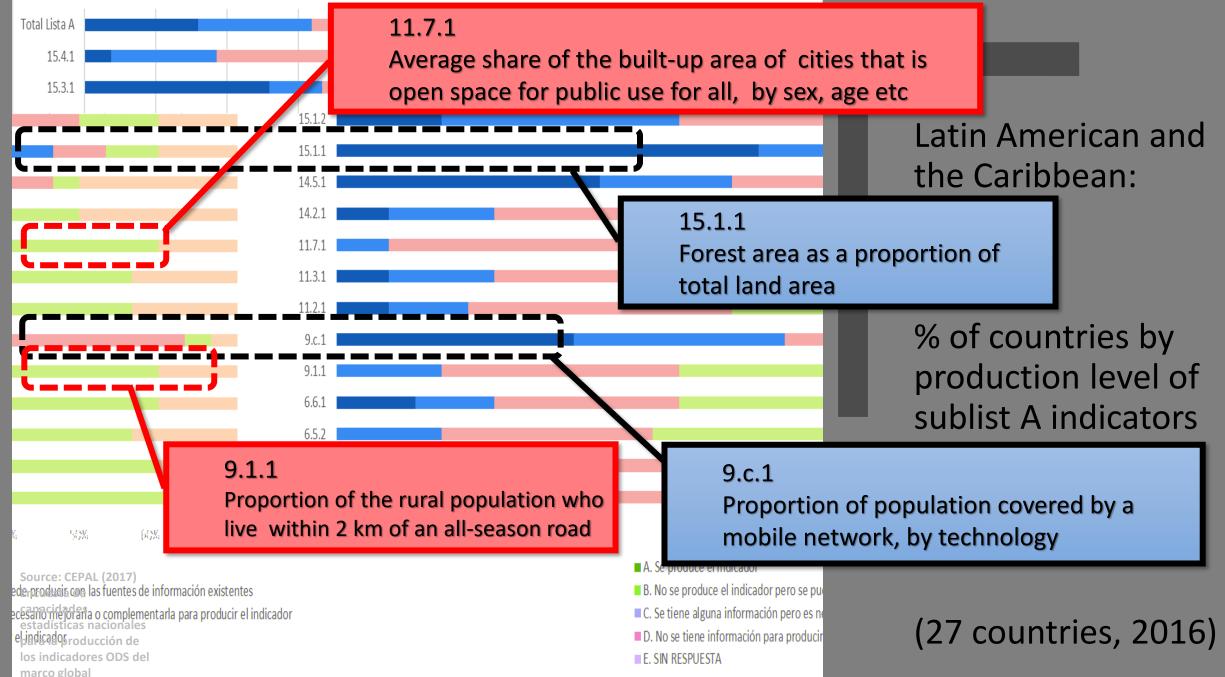
A voluntary review of readiness to utilize global and national geospatial data and satellite earth observations data sets in the production of indicators (based on the shortlist of 24 indicators)

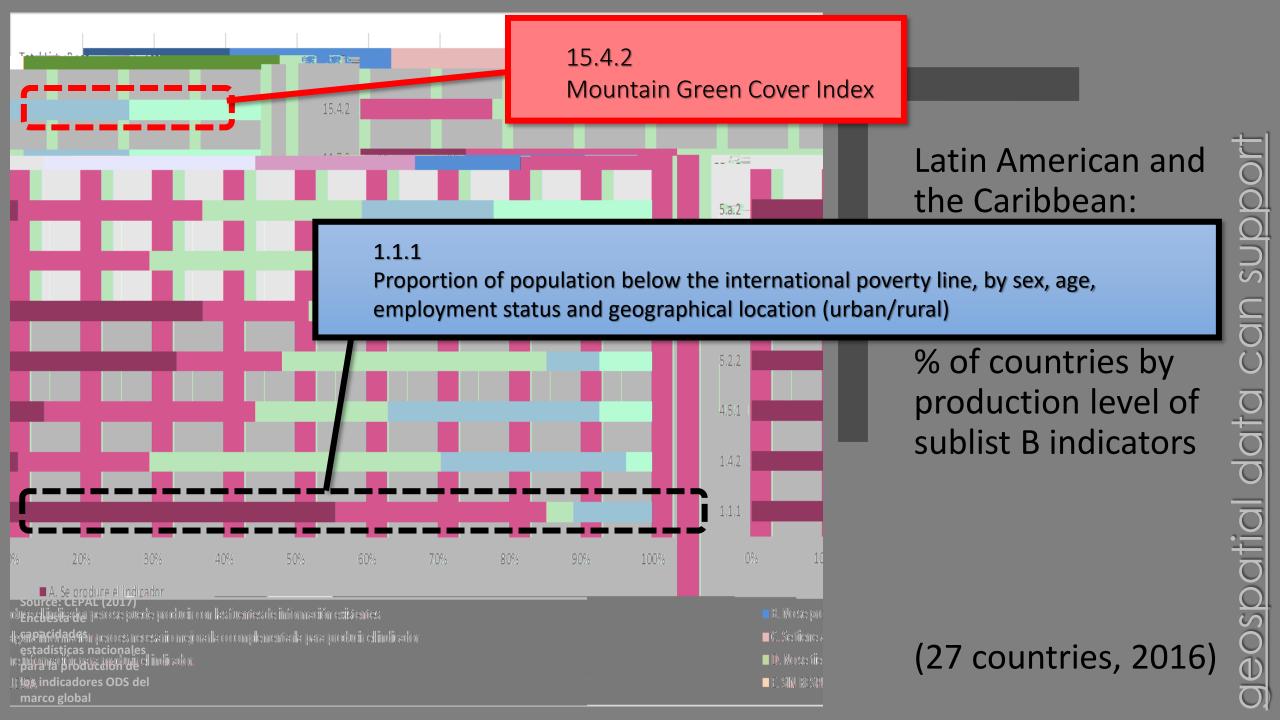


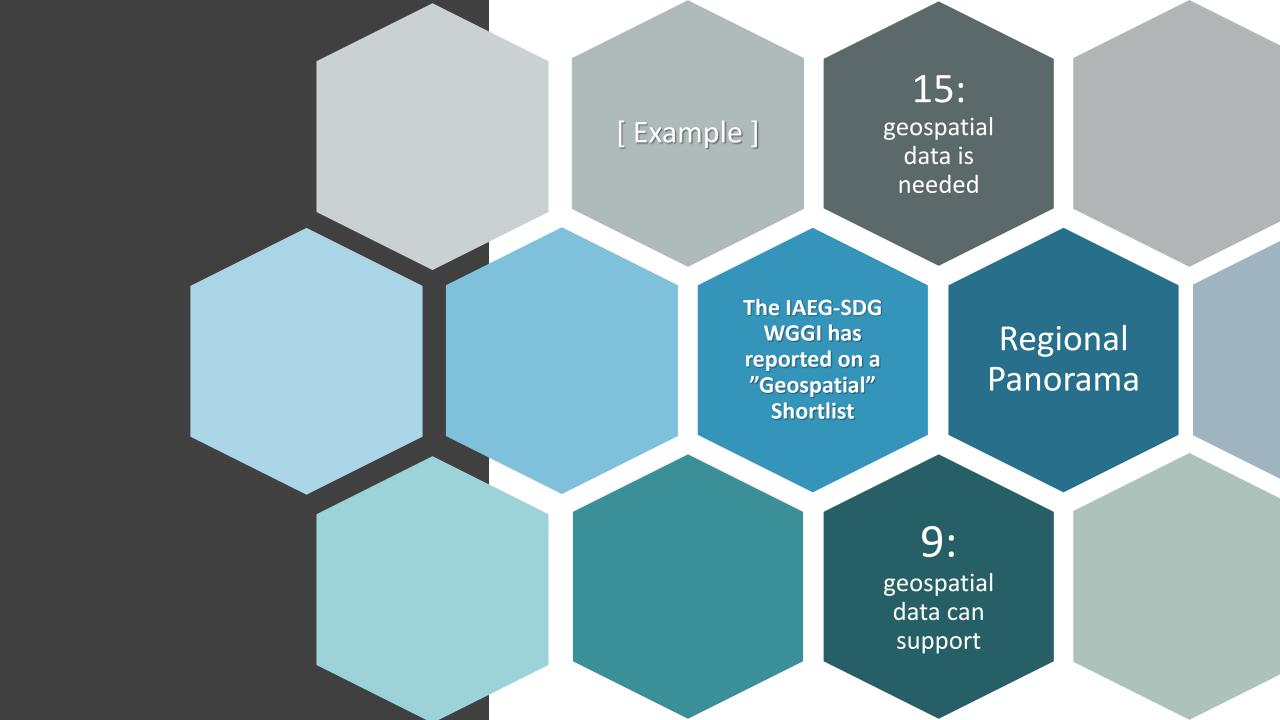
SUB-LIST B:

GEOSPATIAL DATA CAN SUPPORT











Using data from the Land Use and Vegetation Map and the Digital Elevation Model for training machine learning algorithms, using the the Data

Elipe (cotallita imagazzi)

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onstantly update the eport the indicator more

This way we may classification and frequently.





Currently implementing Open Data Cube at INEGI

WORKS ON indicator 15.4.2 mountain Green cover index

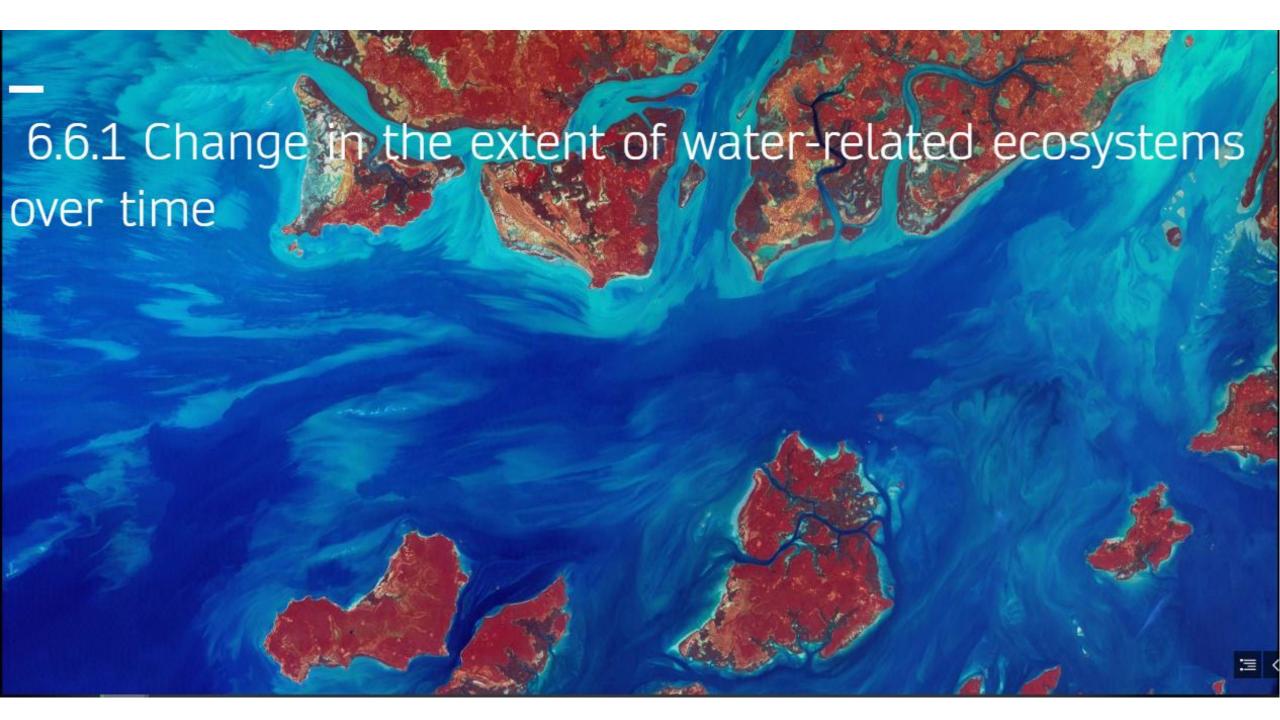


First classification is a conversion from the 2014 Land Use/Land Cover map to 6 classes

ODC process allows constant update to the national classification because it is generated automatically

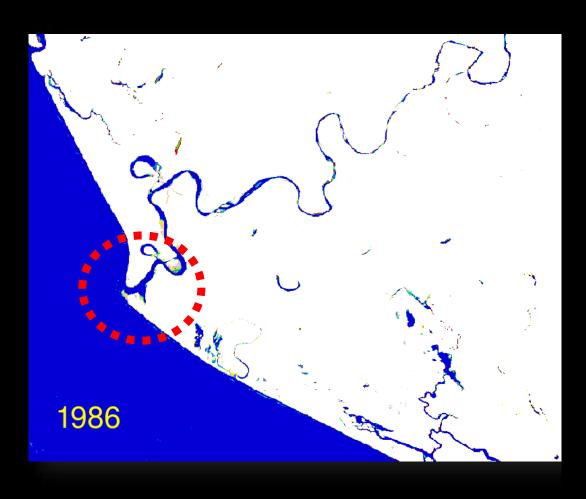
Spared resources can be applied to expert and field validation for quality assessments

STEDS (chronological)	without		with	
STEPS (chronological)	<u>ODC</u>	Progress	<u>ODC</u>	Progress
Use Intergovernmental Panel on Climate				
Change definitions (6 classes)	✓	✓	✓	✓
Land Use/Land Cover Map	~	V	✓	✓
Obtain converted classification (original				
to 6 classes)	✓	✓	✓	✓
Draw sample from converted data			*	design
Use sample and 6 other ODC indicators as				ODC
training dataset for classification			~	indicator (geomedian)
Run national classification with Machine				
<u>Learning</u>			*	
Link result raster to Digital Elevation				
Model (DEM) for mountain areas	✓	✓	✓	
Calculate Green Cover index on DEM				
mountain area mask	V	V	✓	
Possible field validation for quality				
assurance in subsampled dataset			*	
Provide feedback to FAO	V	V	✓	



Mexican Geospatial Data Cube

Coast Erosion in the Mouth -> Open Data Cube Altorithm: of Santiago River Water Observations from Space, (WOfS)



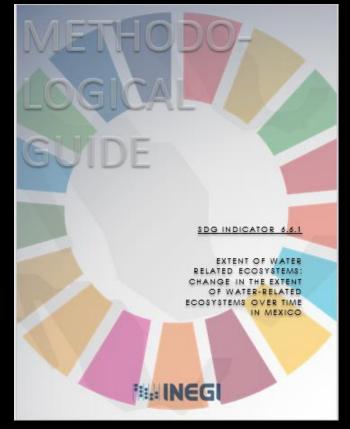
Mexican Geospatial Data Cube

Coast Erosion in the Mouth -> Open Data Cube Altorithm:
of Santiago River

Water Observations from Space,(WOfS)



Indicador 6.6.1 Change in the extent of waterrelated ecosystems over time.



Methodological guide



Year

Time-series analysis is essential to monitor change

With the Data Cube we will be able to better understand the

me: jakkvistnei strases

al guide ata ns from or of d in alia. We've worked on a methodolo for indicator 6.1.1 based on the Cube's algorith: Water Observe Space,, endorsed by primary paper and other scientists invested and other scientists invested by primary



Urban/Rural Grid (1km x 1km)

More recently, we started integrating our Census data, which is already georeferenced, with time-

der to classify the tiles of a regular (km) into rural or urban. Accuracy at onal level classification in our se is around 78%. Among other ies, this data may be used for works d to SDG 11 – Sustainable cities and nunities

In orc grid (1 a natic exerci activit related comm

Having statistics and geography in a single national institution has allowed Mexico for a better integration and use of complementary information systems

With the associated tools from this integration, it is possible to geo-reference relevant statistics









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