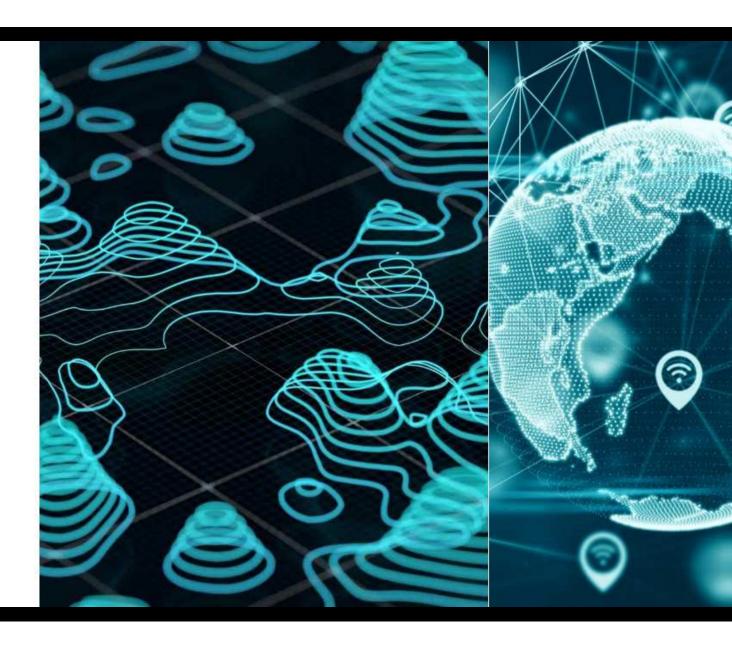


Integration of geospatial information and statistical data will be particularly important for the production of several indicators

-SDGs Report 2019







Global Statistical Geospatial Framework

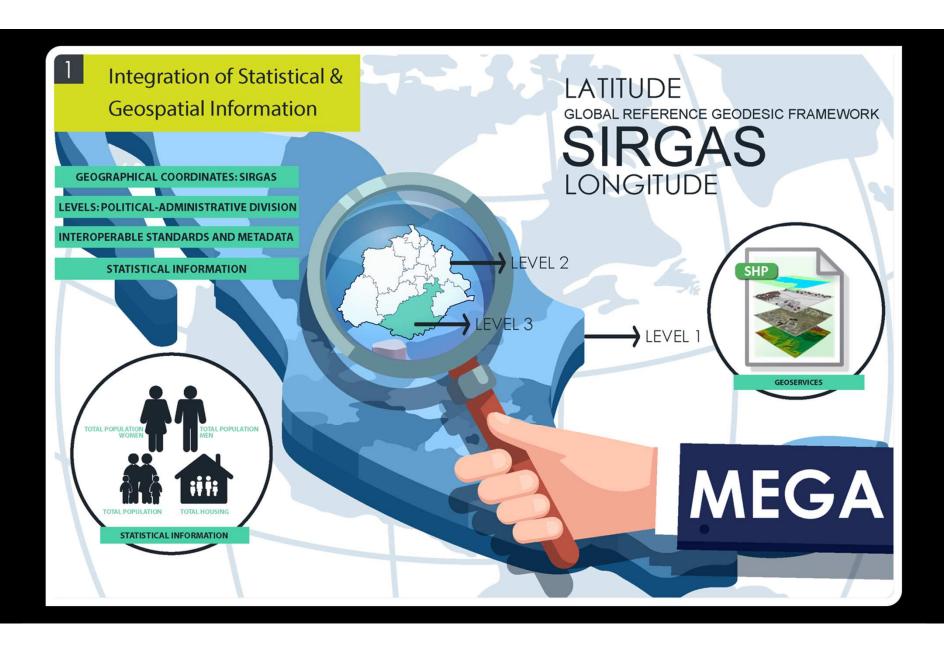
The Global Statistical Geospatial
Framework (GSGF) is a high-level
framework which facilitates consistent
production and integration approaches for
geo-statistical information. It is generic
and permits application of the framework
principles to the local circumstance of
individual countries.

UN-GGIM's endorsement July 2019

a common method of geospatially enabling statistical and administrative data and integrating this with geospatial information through an internationally agreed framework

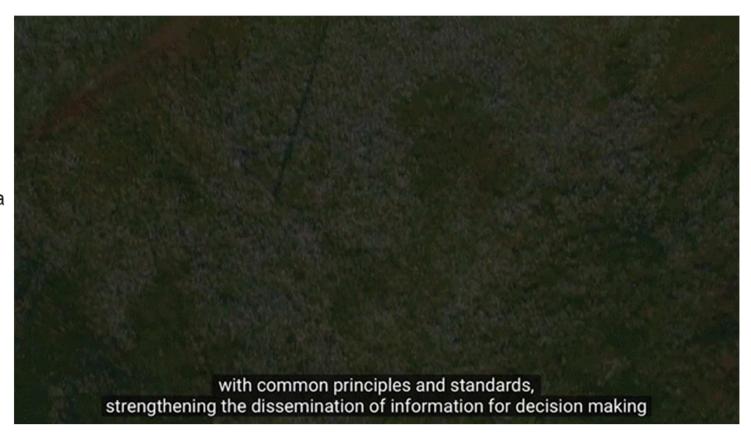
The global framework has been developed by the joint <u>UNSC/UN-GGIM Expert Group</u> on Integration of Statistical and Geospatial Information, based on a national framework in Australia.

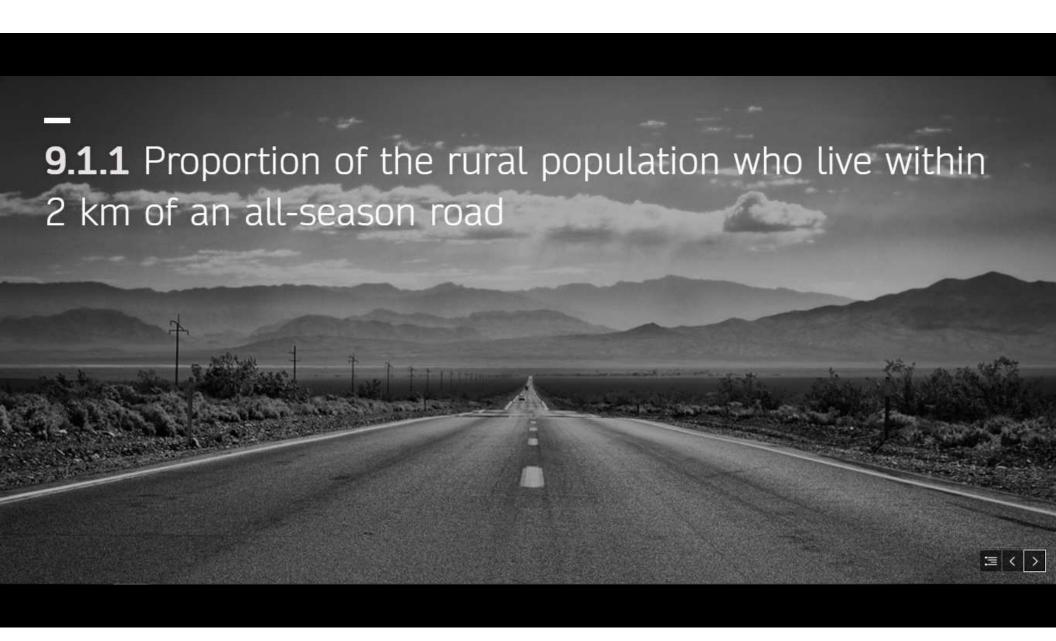




MEGA

- Fundamental geospatial infrastructure and geocoding
- Geocoded unit record data in a data management environment
- Common geographies for statistics dissemination
- Interoperable data and metadata standards
- · Accesible and usable











Integrating statistical (census) data with geospatial data (roads)

Rural settlements:

...closer than 2km (green)

24,259,295

...more than 2km (pink)

26,059,128

from an all-season road

93.1 %





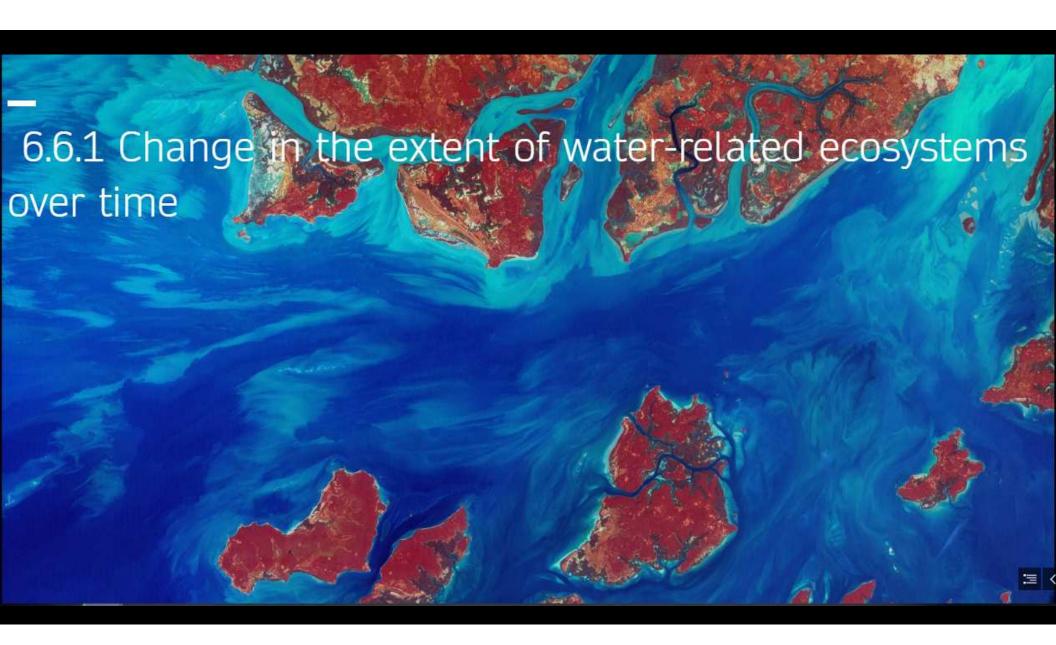


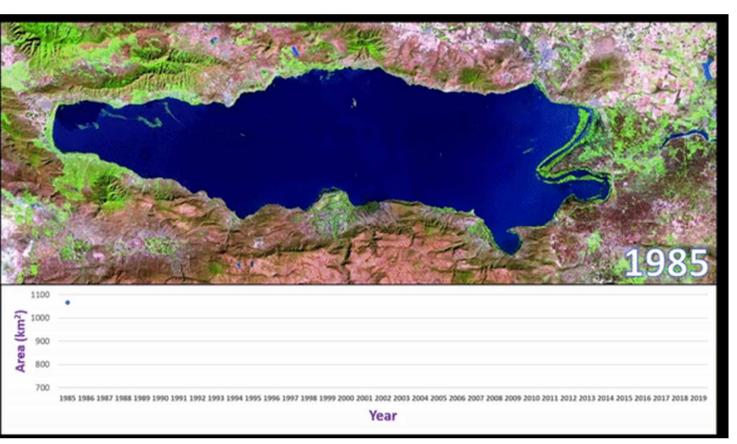
Using data from the Land Use and Vegetation Map and the Digital Elevation Model for training machine learning algorithms, using the the Data Cube (satellite imagery).

This way we may constantly update the classification and report the indicator more frequently.









Time-series analysis is essential to monitor change
With the Data Cube we will be able to better understand the behaviour of our ecosystems.

We've worked on a methodological guide for indicator 6.1.1 based on the Data Cube's algorith: Water Observations from Space,, endorsed by primary author of paper and other scientists involved in water studies in Geoscience Australia.



Urban/Rural Grid (1km x 1km)

More recently, we started integrating our Census data, which is already georeferenced, with timeseries of satellite images

In order to classify the tiles of a regular grid (1km) into rural or urban. Accuracy at a national level classification in our exercise is around 78%. Among other activities, this data may be used for works related to SDG 11 – Sustainable cities and communities

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







