

EARTH OBSERVATIONS FOR THE BENEFIT OF HUMANKIND

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GEO IN NUMBERS





Observations in, on and around the Earth



Credits: NASA Goddard MODIS Rapid Response/NOAA



Societal Benefit Areas





GEO Engagement Priorities



Climate Change Greenhouse Gas Monitoring



UN World Conference on Disaster Risk Reduction 2015 Sendai Japan

Disaster Risk Reduction



2030 Agenda for Sustainable Development



GEO support for SDGs: EO4SDG



- » Working closely with UN-GGIM
- » GEO represented on Inter-Agency Expert Group (IAEG) of the UN Statistics Division in the Working Group on Geospatial Information (WGGI)
- » GEO is the Earth Observation Anchor Partner to the Global Partnership for Sustainable Development Data (GPSDD) on the GPSDD Board



ADVANCE UNEDITED VERSION	
UNITED NATIONS	E/C.20/2017/11/Add.1
Economic and Social Council	13 July 2017
Committee of Experts on Global Geospatial	
Information Management	
Seventh session New York, 2-4 August 2017	
hem 12 of the provisional agenda*	
Geospatial information for sastainable development	
Geospatial information for sustainab	ole development
Note by the Secretariat	

11. The Working Group also considered ongoing reviews of the global indicator framework and its compiled metadata, and through break-out groups, chose to focus on a number of Tier III indicators and agreed to form three task teams to: i) provide case studies; ii) demonstrate methodological approaches; iii) consider data availability; iv) consider data disaggregation; v) consider contribution by international (global) datasets; and vi) engage custodian agencies. Each of the three task teams, led by a member of the Working Group, included both members of the Working Group and subject matter experts. In addition, the Working Group considered a number of cross-cutting issues related to data availability required to contribute to the production of indicators that included: i) are the data consistent – national, global, a mix of both; ii) what is the data's resolution; iii) the accuracy and the currency required; iv) national versus international (global) data sets; v) are there common levels of geography; and vi) the periodicity of data – baselines, synthesis, refresh rates, annual, biennial.





GEO support for SDGs: EO4SDG

Old data Unlock archives, share via geoportal.org

Existing data Provide open access or pay subject to needs

New data Collaboration, integration, communication



Partnerships and platforms

A global movement to put data in the hands of those who need it, to make sure no one is left behind, is championed by global partnerships, platforms, portals, grids, and hubs.

Partnerships are key to addressing cross-cutting issues such as:

- data availability at national versus global levels
- alternative data sources including crowd sourced data, citizen science and volunteered geographic data
- data disaggregation





EO4SDG Initiative: Engagement with UN Process

WGGI contributes knowledge and expertise on Earth observations and geospatial information to discussion of SDG Indicators.

WGGI: Case studies on 3 Tier III (low) Indicators and 3 common issues

GEO (via CEOS & EO4SDG) led two Tier III Indicator case studies:

- » 6.6.1 spatial extent, water quality
- » 15.3.1 land degradation



EO4SDG, in coordination with the GEO Secretariat, looks to support:

» 6.6.1: UN Environment (lead custodial agency) data study that aims to collect national inputs on this Indicator.
Opportunities with 14.1.1 & 14.2.1.





4 LIFE BELOW WATER

» 15.3.1: UNCCD (lead custodial agency) collaboration with CEOS and others to help provide 15.3.1-relevant, space-based information and in-situ measurements and assist in fulfilling reporting.





April 5-6, 2017:

National Forum on Data Roadmaps for Sustainable Development organized with Ghana by GPSDD. Addressed data gaps, data use, data ecosystem, and multistakeholder approaches

EO4SDG linked NASA/USAID SERVIR program to Forum CEOS exploring potential for a country-wide "data cube"





GEO EO4SDG engaging with Senegal National Statistical Office, African Development Bank, and Knoema.

Pilot projects to combine Earth observations, geospatial information, and statistics.

Pilot topics are forest cover, sustainable forest management with others to follow







Office of Deputy President, GPSDD, SERVIR, and EO4SDG addressing Earth obs. and geospatial info. for SDG monitoring and reporting and to meet Agenda 2063

Topics: Food security, Capacity building in agricultural sector, Urban planning, Cross-regional collaboration





EO case studies: Agenda 2030



GEO is instrumental in integrating use of Earth observation data into the methodology of measuring and achieving Sustainable Development Goal Indicators.

This brochure gives graphic illustration of the types of EO data sets and images available which means decision-makers can not only use data to identify the status they need to report, they can visualize the solution, too.

https://www.earthobservations.org/documents/publications/201703 geo eo for 2030 agenda.pdf



400m EO data and information resources in GEOSS Portal <u>www.geoportal.org</u>





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Report on the 2nd GEO Data Providers Workshop





The socioeconomic business case





Good practice examples



4Cs to discover, access and use geospatial data

Collaboration: Community, Human Interoperability and Regions

Capacity Building: Digital Literacy, Policy and Technology Translation

Communications: Awareness Raising, Free Resources, Training Schedules and Value

Commercial Engagement: Platform, Pricing, Public Private Partnerships







GEO-XIV Plenary 23-27 October 2017, Washington D.C.

Mark your calendar now!

United States

www.earthobservations.org/geoweek2017



COUNTRIES HAVE BORDERS, EARTH OBSERVATIONS DO NOT.





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Connect and collaborate:



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Group on Earth Observations

Group on Earth Observations

earthobservations.org and geoportal.org