

GEO Initiative 18: Earth Observations in Service of the 2030 Agenda for Sustainable Development

SDGs: Sustainable Development Goals

- Where the international community and GEO stand on the UN 2030 Agenda for Sustainable Development
- Built upon Agenda 21 (1992), Agenda 21 Implementation Plan (2002), MDGs (2009) and Rio+20 (2012)

SDGs represent a clear opportunity for generating greater coherence between EO and society, environment and economy policy issues.

EO can play key roles in monitoring targets, planning, tracking progress, and helping nations and other stakeholders make informed decisions.



17 goals
169 targets
230 indicators

GEO INITIATIVE GI-18

Supports GEO in defining the indicators for the Sustainable Development Goals (SDGs) and providing support to countries in measuring, monitoring and achieving the SDGs.

Goals of GI-18




- 1) To engage with Member States, the UN Statistics Division and other partners in the *development of the indicators* supporting the SDG Goals and Targets approved by the UN Statistical Commission in March 2016.
- 2) Develop *pilot projects* in one or more GEO Member countries focused on integrating Earth observations with national statistical accounts to better measure, monitor and achieve the SDGs.

GI-18 emphasizes the strong collaboration that projects must have with the statistical community at national and global.

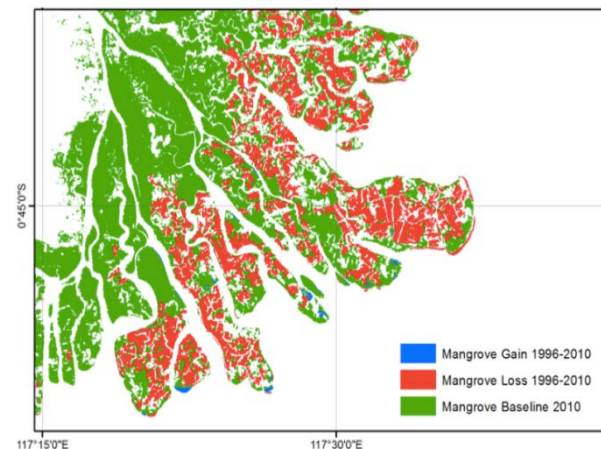
Interaction with UN IAEG-SDG/WG on Geospatial Information (WGGI)

- GEO is an invited member of UN IAEG-SDG/WGGI to contribute knowledge and expertise on EO and GI to the discussion of SDG indicators.
- 1st expert group meeting of WGGI (Dec 12-14, 2016, Mexico City) agreed on focusing on case studies on three indicators (6.6.1, 9.1.1 and 15.3.1) and three common issues (data disaggregation, alternative data, global and national data) for its report to UN Statistical Commission report in March 2017.
- GI-18 supports WGGI case studies and develops its report on added values of EO for SDGs for distribution at side event on March 6, 2017.




WGGI case studies

SDG	indicator	Country	Themes
	6.6.1	TBD	Changes in the extent of water-related ecosystem over time
	9.1.1	TBD	Proportion of the rural population who live within 2 km of an all-season road
	15.3.1	TBD	Proportion of land that is degraded over land area




Mahakam delta,
East Kalimantan.
Mangrove extent
2010 (green) and
changes 1996-
2010 (red) ©
GMW, 2015




GI-18 National Pilot Projects (1/3)

SDG	indicator	Country	Project Name
 2 ZERO HUNGER	2.4	Albania & broader Balkan Region	Terrestrial Ecosystems & Agriculture: to improve access to the archive of NASA's satellite imagery, and promote Earth Observation (EO) data and services in response to national and regional needs
	15.1		
 3 GOOD HEALTH AND WELL-BEING	3.9	UAE	Air quality analysis using satellite observations
	11.6		
 6 CLEAN WATER AND SANITATION	3.9	UAE	Harmful Algal Blooms: to assess the extent and cause of algal blooms using remote sensing
	14.1		
	6.5.1	JAPAN	Precipitation monitoring for fulfillment of cities and human settlements safe, resilient and sustainable
	11.5.1		
	6.6.1	Uganda	Clean Water and Sanitation / automatic wetland mapping: The ESA GlobWetland Africa
	6.6.1	Rwanda	National products on wetland delineation and characterization that will contribute to global conventions like Ramsar and monitoring SDGs
	15.1		

GI-18 National Pilot Projects (2/3)

SDG	Indicator	Country	Project Name
11 SUSTAINABLE CITIES AND COMMUNITIES 	11	Uganda	Automatic urban extent mapping
	11.6.2	JAPAN	Atmospheric pollution monitoring for establishment of sustainable cities and human settlements environment
	11.6.2	USA	Air Quality: monitoring PM10 concentrations
13 CLIMATE ACTION 	13.3 14.a	UAE	Impacts of climate change: monitoring of sea level rise, sea temperature and salinity
	15.1.1	JAPAN	Forest monitoring for sustainable forest management
	15.1.1	USA	Forest monitoring for sustainable forest management
15 LIFE ON LAND 	15.1	USA	Ecological Forecasting: mapping mangrove extent and transition in the Florida Everglades
	15.1.1	Costa Rica	US-Costa Rica possible collaboration on Forest monitoring
	15.3.1	ESA projects (several countries)	ESA Land Cover CCI project
	15.3.1	Global but led by Australia (CSIRO)	Prepare Good Practice Guides (GPGs) for deriving and reporting to the UN Convention to Combat Desertification (CCD) on three sub indicators of SDG Indicator 15.3.1

GI-18 National Pilot Projects (3/3)

SDG	Indicator	Country	Project Name
		Philippines	A dedicated water SDG workshop was hosted by the National Economic Development Authority (July 2016)
	Water (6) and Disasters issues	Fiji	The national authorities/regional bodies decided to have a regional meeting hosted by the Fiji government in December, in relation to the SDGs
		Chile	Chile is already providing data on GEO DAB, a key component of the GEOSS Common Infrastructure (GCI) that transparently connects GEOSS User's requests to the resources shared by the GEOSS Providers, since April 2015
		Mexico	Mexico-Chile interactions on putting together a joint SDG-related project
		USA	Project that focuses on AmeriGEOSS portal
		Global	Global Partnership for Sustainable Development Data in collaboration with GEO is creating a module for a SDG toolbox, a set of tools, methods and resources to help countries address challenges and seize new opportunities in the collection and use of real-time, dynamic, disaggregated data, in their effort to achieve and monitor the SDGs and their own sustainable development priorities