

The Group on Earth Observations (GEO)

3rd Blue Planet Symposium

Dr. Douglas Cripe Work Programme Coordinator GEO Secretariat

May 31, 2017













GEO Partnership 105 Members

GEO Member Map for the year 2017

(Use slider under the map to change the year)



Number of Members (2017)

Africa: 27

Americas: 16

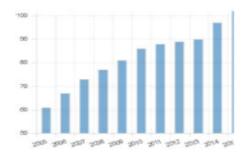
Asia/Oceania: 21

C.I.S.: 7

Europe: 34

Total: 105

Number of Members by year







109 Participating Organizations





GEOSS Implementation Requires: Data Sharing Principles

Free and Open Exchange of Data

 Data and Products at Minimum Time delay and Minimum Cost

Free of Charge or Cost of Reproduction





A Global Earth Observation System of Systems

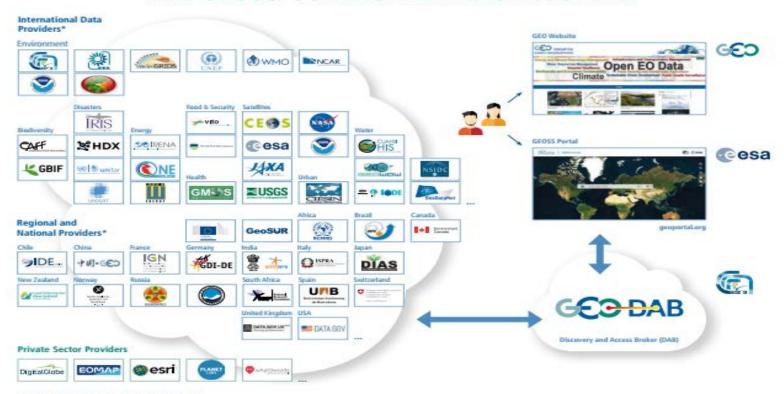


Integrating Earth Observations Across Many Platforms and Disciplines to Benefit Society





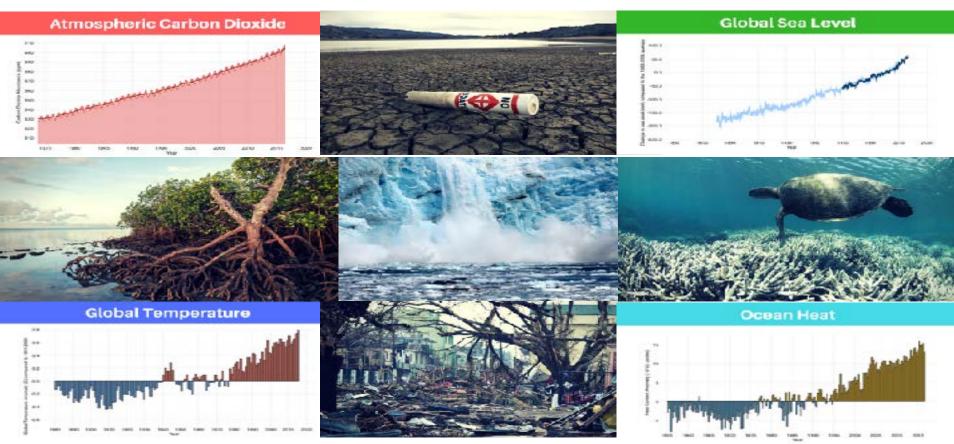
THE GEOSS COMMON INFRASTRUCTURE





Our Changing Planet









UN Sustainable Development Goals



Transforming Our World: The 2030 Plan for Global Action - Article 76:

"We will promote transparent and accountable scaling-up of appropriate publicprivate cooperation to exploit the contribution to be made by a wide range of data, <u>including Earth observation and geo-spatial information</u>, while ensuring national ownership in supporting and tracking progress."



High level commitment to use EO for policy



Ministerial Declaration, GEO Plenary XII, Mexico City, 2015

"Affirm that GEO and its Earth observations and information will support the implementation of, inter alia, the 2030 Global Goals for Sustainable Development, the Sendai Framework for Disaster Risk Reduction 2015-2030, the United Nations System of Environmental and Economic Accounts, and the United Nations Framework Convention on Climate Change."





GEO support to the 2030 Agenda



Target Contribute to progress on the Target yet not the Indicator per se									Goal	Indicator Direct measure or Indirect support				
							1.5	1	No poverty					
					2.3	2.4	2.c	2		2.4.1				
				3.3	3.4	3.9	3.d	3	Good health and well-being	3.9.1				
								4	Quality education					
								5	Gender equality	5.9.1				
		6.3	6.4	6.5	6.6	6.a	6.b	6	Clean water and sanitation	6.3.2	6.4.2	6.5.1	6.6.1	
				7.2	7.3	7.a	7.b	7		7.1.1				
							8.4	8	Decent work and economic growth					
				9.1	9.4	9.5	9.a	9	Industry, innovation and infrastructure	9.1.1				
								10	Reduced Inequalities					
	11.3	11.4	11.5	11.6	11.7	11.b	11.c	11	Sustainable cities and communities	11.3.1	11.6.2	11.7.1		
					12.2	12.a	12.b	12	Responsible consumption and production					
					13.1	13.3	13.b	13	Climate action	13.1.1				
	14.1	14.2	14.3	14.4	14.6	14.7	14.a	14	Life below water	14.3.1				
15.1	15.2	15.3	15.4	15.5	15.7	15.8	15.9	15	Life on land	15.1.1	15.2.1	15.3.1	15.4.1	15.4.2
								16	Peace, justice and strong Institutions					
			17.6	17.7	17.9	17.16	17.17	17	Partnerships for the goals					

EO to support the 2030 Agenda.

GEO represented on Inter-Agency Expert Group of the UN Statistics Division.

GEO is the Earth Observation Anchor Partner to the Global Partnership for Sustainable Development Data.

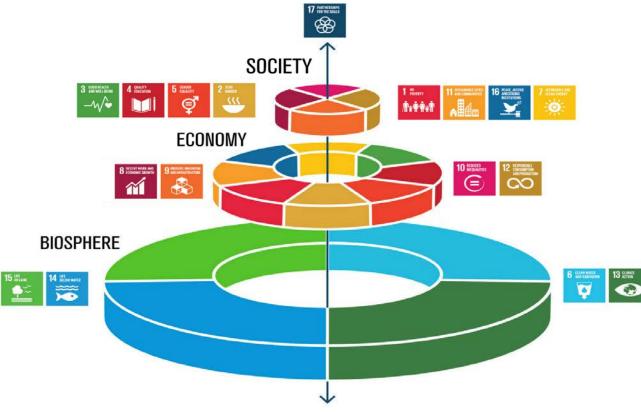






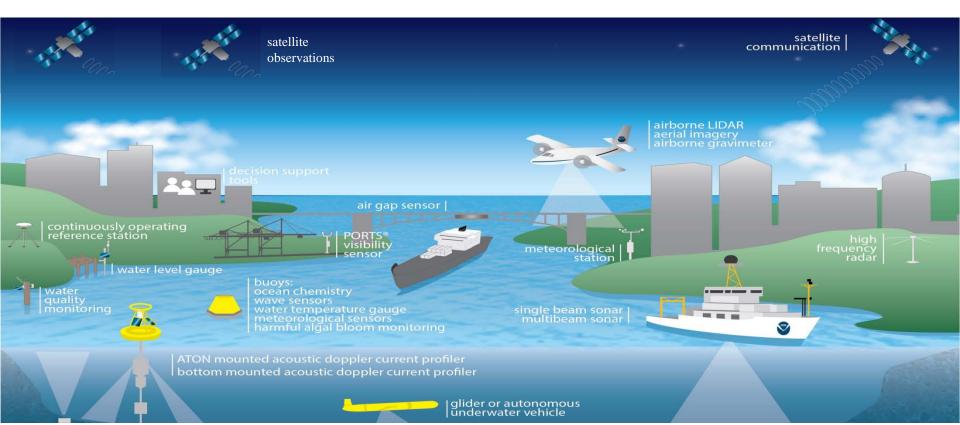


THE GLOBAL GOALS





Environmental Process Understanding







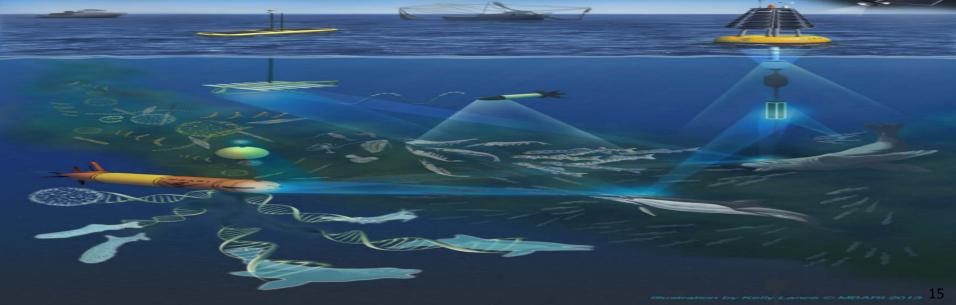
GEO: Connecting data to decisions







Conserve and sustainably use the oceans, seas and marine resources for sustainable development







Marine Biodiversity Observation Network Components



MBON

Marine Biodiversity

Observation Network



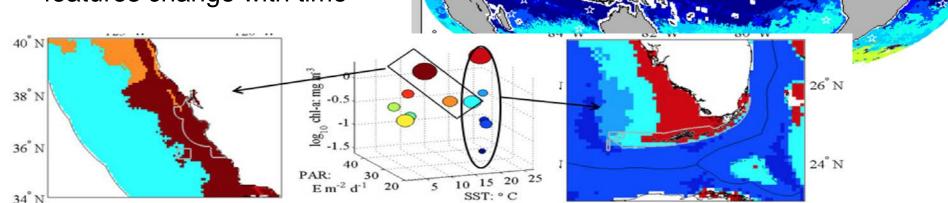


MBON Seascapes

Inter-disciplinary approach based on landscape ecology

Merges ecology, geography, and ocean dynamics to observe species

embedded in a dynamic seascape, where boundaries, extent, and location of features change with time



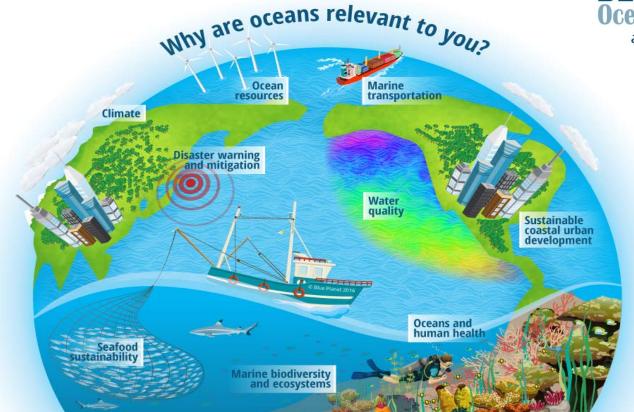
Kavanaugh et al (2016) Seascapes as a new vernacular for pelagic ocean monitoring, management and conservation. ICES



GEO Blue Planet Initiative









GEO Blue Planet Initiative

4M

Multipurpose Marine Monitoring Mechanism



THE OCEAN CONFERENCE

OUR OCEANS, OUR FUTURE: PARTNERING FOR THE IMPLEMENTATION OF SUSTAINABLE DEVELOPMENT GOAL 14

5 - 9 JUNE, 2017, NEW YORK



- NOAA-CSIRO develop inundation forecast in the Pacific to provide the people living on Pacific Islands with warnings of impending inundation events.
- Lead times of between hours and possibly as long as a week.
- PISIFIC supports SDG 13 and 11













IRRESPONSIBILITY

NO SINGLE RAINDROP BELIEVES IT IS TO BLAME FOR THE FLOOD.



Thank you!

www.earthobservations.org www.geoportal.org



@geosec2025



Group on Earth Observations

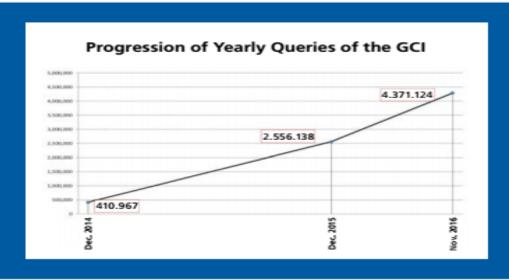




GEOSS Common Infrastructure (GCI)

GEOSS users can access more than 200 million data resources through the GCI (November 2016). More than 71 million are fully open and free (GEOSS Data Core). The GCI infrastructure has also seen a major increase in machine-to-machine queries, with exponential growth since 2014.

Number of queries through machine-to-machine connections Nov. 2016: 4.371.124 http://statistics.geodab.eu/gi-stat/stats/







8 Societal Benefit Areas

