



The role of the EC in the Group on Earth Observation (GEO)

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Research and
Innovation

GEOSS: A Global System – 104 countries + 126 participating organisations (large share from EU)



- GEO becomes the international reference program regarding Earth Observation
- GEOSS is moving onto a more user oriented approach
- GEO tends to get more organised at regional level



GEO Ministerial Summit in Mexico City (11/11/2015)



"Over the next few decades the international community will have to make many tough decisions. More importantly, we'll have to work together to solve global problems like climate change, hunger and migration."

"Insufficient or incomplete observing systems will only hold us back and lead to high environmental, economic and social costs in the long term."

Carlos MOEDAS

European Commissioner for Research, Science and Innovation

EC Role in GEO Governance

- 2017 lead co-chair of GEO EXCOM
- EC Co-chair: Ministerial, Plenary, EXCOM meetings
- GEO strategic groups: EXCOM budgetary group, GEOSS Evolve group, GEO Program Board, CEOS
- Contribute significantly to the GEO trust fund
- GEO European coordination





EC contribution to GEOSS



*Copernicus Sentinel-2A satellite
over Toulouse and the surrounding
agricultural landscape – courtesy
ESA*

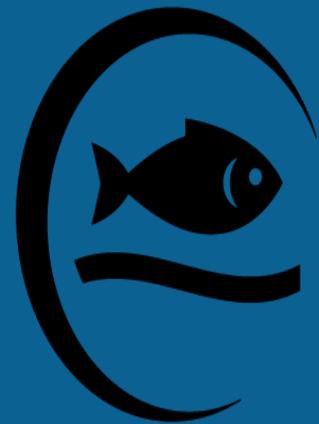




European
Commission

Copernicus Marine Environment Monitoring Service





Marine Monitoring



Coordination needed!

CMEMS (Marine)

Copernicus Marine Environment Monitoring Service



EUROPEAN COMMISSION **HORIZON 2020** INNOVATION UNION



Spreading Excellence (0.8 B €)

Science for Society (0.5 B €)

EIT (2.7 B €)

JRC (1.9 B €)

Euratom (1.6 B €)

77 billion EUR
from 2014-2020



Climate action,
environment, resource
efficiency and raw
materials
HORIZON 2020

CALLS 2014 - 2017

**159 M€
for "GEOSS"
related R&I
projects**

5.5 Developing comprehensive and sustained global environmental observation and information systems					
776825	MELOA	Multi-purpose/Multi-sensor Extra Light Oceanography Apparatus	RIA	5.5.0	296
776740	WeObserve	An Ecosystem of Citizen Observatories for Environmental Monitoring	CSA	5.5.0	297
776691	TWIGA	Transforming Weather Water data into value-added Information services for sustainable Growth in Africa	RIA	5.5.0	298
776480	MONOCLE	Multiscale Observation Networks for Optical monitoring of Coastal waters, Lakes and Estuaries	RIA	5.5.0	299
775983	HYPERNETS	A new hyperspectral radiometer integrated in automated networks of water and land bidirectional reflectance measurements for satellite validation	RIA	5.5.0	300
774652	AfriCultuReS	Enhancing Food Security in AFRICan AgriCULTUral Systems with the Support of REmote Sensing	RIA	5.5.0	301
730329	NextGEOSS	Next Generation GEOSS for Innovation Business	RIA	5.5.0	302
727890	INTAROS	Integrated Arctic observation system	RIA	5.5.0	303
690199	GROW	GROW Observatory	IA	5.5.0	305
690133	GEO-CRADLE	Coordinating and integRating state-of-the-art Earth Observation Activities in the regions of North Africa, Middle East, and Balkans and Developing Links with GEO related initiatives towards GEOSS	CSA	5.5.0	306
689812	LANDSENSE	A Citizen Observatory and Innovation Marketplace for Land Use and Land Cover Monitoring	IA	5.5.0	307
689744	Ground Truth 2.0	Ground Truth 2.0 - Environmental knowledge discovery of human sensed data	IA	5.5.0	308
689443	ERA-PLANET	The European network for observing our changing planet	ERA-NET-Cofund	5.5.0	309
688930	SCENT	Smart Toolbox for Engaging Citizens into a People-Centric Observation Web	IA	5.5.0	311
642088	SWOS	Satellite-based Wetland Observation Service	RIA	5.5.0	312
641762	ECOPOTENTIAL	ECOPOTENTIAL: IMPROVING FUTURE ECOSYSTEM BENEFITS THROUGH EARTH OBSERVATIONS	RIA	5.5.0	313
641538	ConnectinGEO	Coordinating an Observation Network of Networks EnCompassing saTellite and IN-situ to fill the Gaps in European Observations	CSA	5.5.0	315
633211	AtlantOS	Optimizing and Enhancing the Integrated Atlantic Ocean Observing System	RIA	5.5.0	316

AtlantOS



Optimising and Enhancing the Integrated
Atlantic Ocean Observing Systems

- RIA; GEOMAR (GE); 62 partners + cooperation partners; 20 M€; April 2015 – June 2019
- improve **Atlantic observing** by creating a more **systematic, cost effective and user-driven Integrated Ocean Observing System**
- build on **Global Ocean Observing System, GEO Blue Planet Initiative, Copernicus Marine Service, EMODnet**
- strengthen **trans-Atlantic collaboration** with Canada & US – flagship project of the Trans-Atlantic Ocean Research Alliance
- deliver a **roadmap in the context of the OceanObs19**
- link with **EOOS**

**Blue
Growth**





Four Regional GEO Initiatives:

- AfriGEOSS (2014)
- AmeriGEOSS (2015)
- AOGEOSS (2016)
- EuroGEOSS (2017)





EuroGEOSS initiative was launched on 23rd October

- Acting as an incubator in cooperation with Copernicus to produce and test EO services and applications of the future (including relevant to Blue Planet)
- Delivering specific EO applications benefiting from integrating Global Datasets made available through GEOSS
- Promoting, scaling up and developing EO applications in association with users
- Building on Copernicus (DIAS) + Horizon 2020 resources
- **Request for Expression of Intent (published 16/04)**
<https://ec.europa.eu/eusurvey/runner/EuroGEOSS2018survey>

NB: EuroGEOSS will not duplicate or redo Copernicus,

Two complementary routes to help delivering EuroGEOSS applications

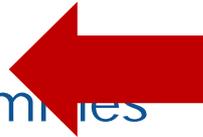


Fixed term projects from funding programmes such as:

- Horizon 2020
- Copernicus
- Other EU programmes
- ESA
- National programmes

Open innovation partnerships

- To collaborate, benchmark, combine existing developments
- To leverage along the value chain
- GEO collaborative spirit





EuroGEOSS Expression of Intent



The 2018 EuroGEOSS Request has been launched on 16 April!

Tailoring Earth Observation services to Europe's needs:

Coordinate, combine and cooperate

From 16 April until 30 June 2018, public or private organizations involved in developing innovative applications based on Earth Observations (EO) and located in European GEO member countries are invited to come forward with voluntary Expressions of Intent for networking along the value chain.

The 2018 EuroGEOSS Request for Expressions of Intent is a mechanism aiming to accelerate user uptake of GEOSS and Copernicus data and to bring synergies between on-going or upcoming EO developments with high market potential.

The form to submit your Expression of Intent can be accessed via <https://ec.europa.eu/eusurvey/runner/EuroGEOSS2018survey>

Details on the 2018 EuroGEOSS Request are also available at <http://ec.europa.eu/research/eurogeoss>

EuroGEOSS is an initiative by the member countries and participating organizations of the European Caucus of the Group on Earth Observations ([GEO website](#)).



GEO Investment 2018-20 under Horizon 2020

- **Circa 65 M€ expenditures planned largely under societal Challenge 5**
- SC5-15-2018: Establishing 'EuroGEOSS': IA (15 M€)
- EIC Horizon Prize for 'Early Warning for Epidemics' – WP EIC Pilot – 5 M€
- SC5-16-2019: Development of EO commercial activities and services IA (15 M€)
- LC-CLA-19-2020: Supporting the GEOSS Cold Regions Initiative: RIA(15 M€)
- LC-CLA-18-2020: Integrated GEOSS climate applications to support adaptation measures of the Paris Agreement: RIA(10 M€)

THE NEW MULTIANNUAL FINANCIAL FRAMEWORK 2021 - 2027 A BUDGET FOR A UNION THAT PROTECTS, EMPOWERS AND DEFENDS

In billion euro, current prices



I. SINGLE MARKET, INNOVATION AND DIGITAL €187.4

- 1 Research and Innovation
- 2 European Strategic Investments
- 3 Single Market
- 4 Space



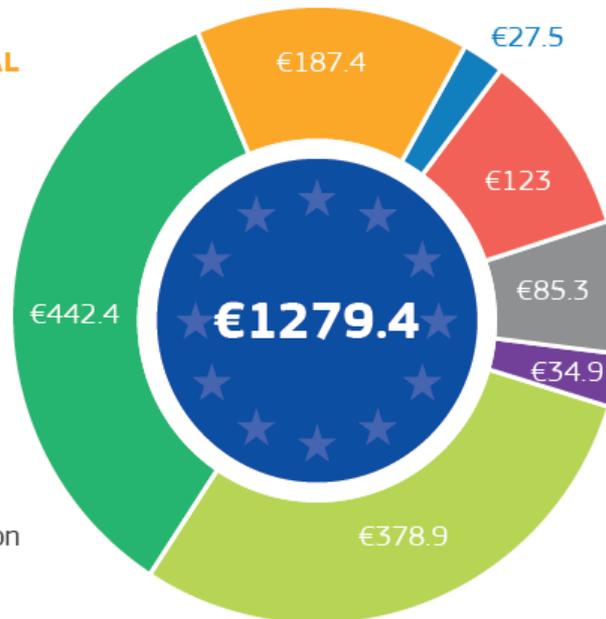
II. COHESION AND VALUES €442.4

- 5 Regional Development and Cohesion
- 6 Economic and Monetary Union
- 7 Investing in People, Social Cohesion and Values



III. NATURAL RESOURCES AND ENVIRONMENT €378.9

- 8 Agriculture and Maritime Policy
- 9 Environment and Climate Action




V. SECURITY AND DEFENCE €27.5

- 12 Security
- 13 Defence
- 14 Crisis Response



VI. NEIGHBOURHOOD AND THE WORLD €123

- 15 External Action
- 16 Pre-Accession Assistance



IV. MIGRATION AND BORDER MANAGEMENT €34.9

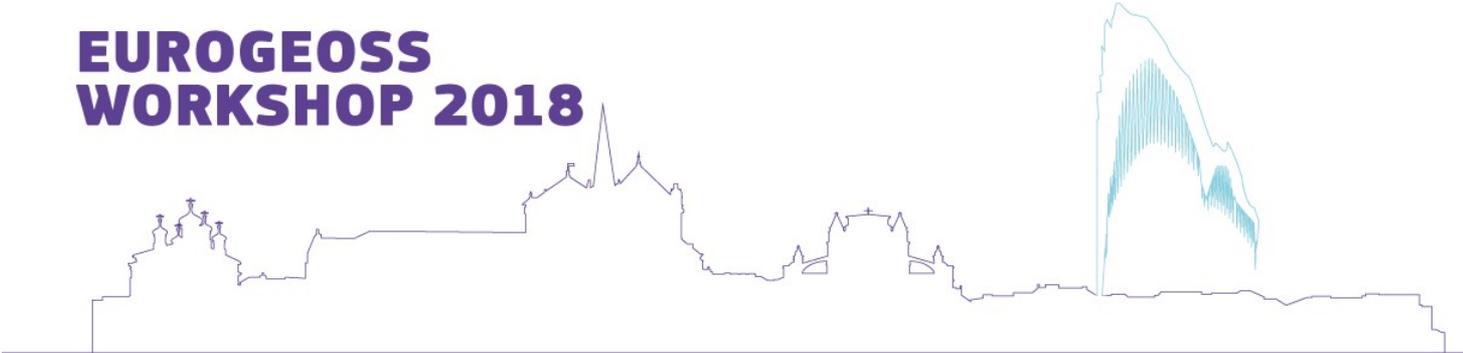
- 10 Migration
- 11 Border Management



VII. EUROPEAN PUBLIC ADMINISTRATION €85.3

- 17 European Public Administration

EUROGEOSS WORKSHOP 2018



12-14 SEPTEMBER 2018, GENEVA

Objective: The EuroGEOSS workshop will be a milestone for this initiative and an opportunity to meet and discover GEO activities at the European level.

The workshop will focus on European contributions to the three GEO engagement priorities (the Sendai Framework, the Paris Agreement and the SDGs) and will specifically focus on those individual SDGs identified as the priorities of EuroGEOSS.

Programme: Will be a combination of Plenary sessions, thematic sessions, hands-on demonstrations and numerous networking opportunities.

Registration at: <https://ec.europa.eu/easme/en/eurogeoss-workshop-2018> - active contribution to the event (presentation or poster) by **29th June 2018**



**Thank
you!**