

EO Research funding opportunities within H2020 Societal Challenge 5.5:

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HORIZON 2020



A core part of Europe 2020, Innovation Union & European Research Area:

- Responding to the economic crisis to invest in future jobs and growth
- Addressing people's concerns about their livelihoods, safety and environment
- Strengthening the EU's global position in research, innovation and technology





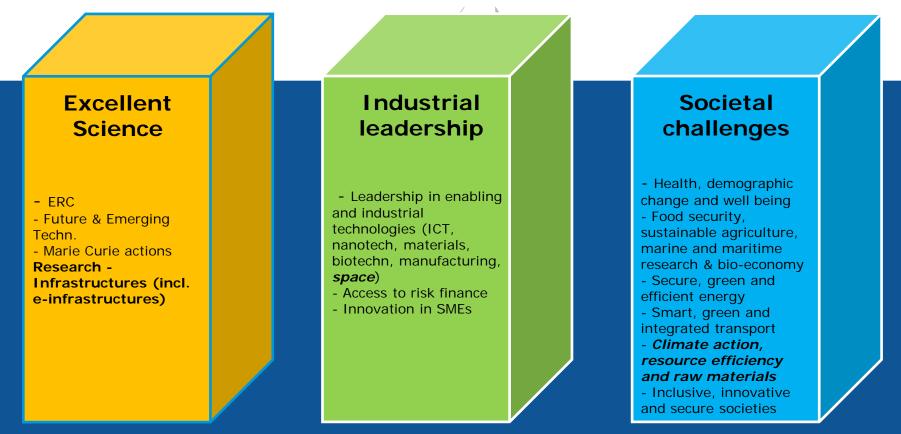
A New Start for Europe : My agenda for Jobs, Growth, Fairness and Democratic Change



 A New Boost for Jobs, Growth and Investment
 A Connected Digital Single Market
 A Stronger Global Actor

I want a European Union that is bigger and more ambitious on big things, and smaller and more modest on small things

> Research and Innovation



- Integrated approach: social science included as an integral part of the activities
- Simple rules for grants (flat rate for indirect costs, no time-sheets for personnel working full time on a project, broader acceptance of participants accounting practices for direct costs etc.)
- Larger SME support
- Tailor-made IPR provisions for new forms of funding
- Strategic partnerships (PPPs) incl. international cooperation / cooperation with pan-European organisation
- A new emphasis on open access

Developing comprehensive and sustained global environmental observation and information systems - Rationale



This sub-challenge EO is a response to:

>The need for Global Earth Observations data that underpins all the research and innovation activities under this programme and EU policies.

The fact that Europe and the European Commission are committed at international level to contribute to Global Earth Observation datasets.

The need to engage more towards **the delivery of new systems** that can create business opportunities and growth.

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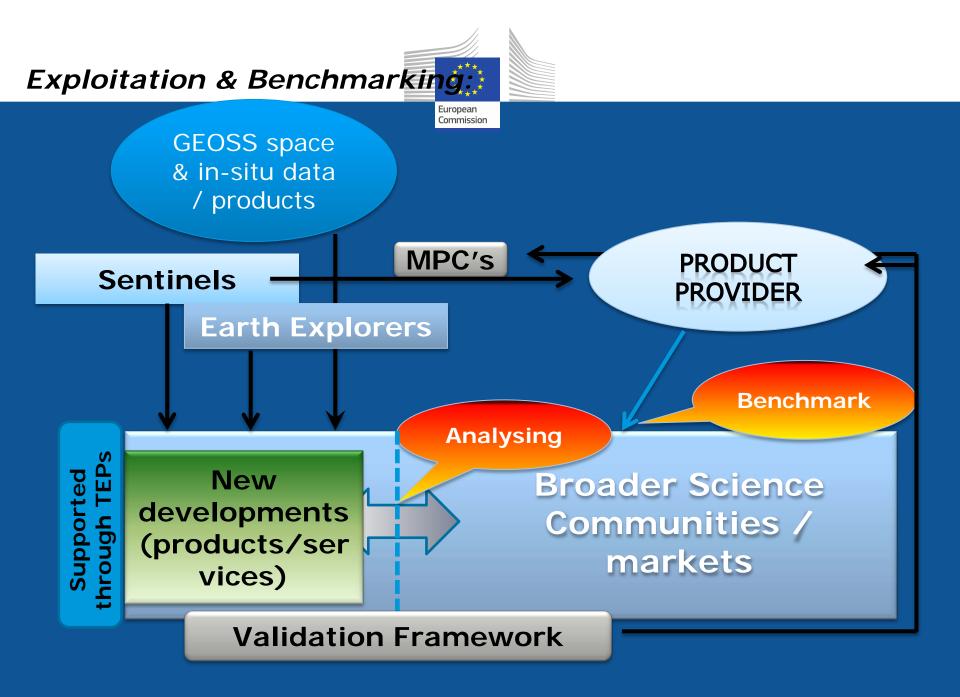


- FP7 projects have contributed to the development and strengthening of the European capacity in Earth Observation, supporting the objectives of the GEOSS 10-Year Implementation Plan and the GEO Work Plan through ad-hoc research projects.
- However more cross-cutting integration will be required in Europe in the period 2014-2020 in order to further advance the implementation and use of Global Environmental Datasets and the information that can be derived from them.
- Actions are aiming at structuring better the Research and Innovation activities in Europe related to EO and fill the gaps identified.



Copernicus Data & Products are also supporting the knowledge base of GEO's SBAs and GEOSS information system is best suited supporting R & I for Copernicus Downstream services

- Data continuity of existing sensor systems
- Long-term commitment
- 2 sats per Sentinel (S1,2,3) in orbit at the same time
- Improved temporal, spectral, spatial and radiometric resolutions
- Different Sentinels flying at the same time



H2020 WP 2014/15 – EO activities (RIs excluded)

	SC5 + focus area BG	SPACE
2014	 SC5-8a-2014: Coordinating and supporting EO research: EU EO networks SC5-16-2014: EO for Ecosystem BG-08-2014: Atlantic Observing System (Blue Growth focus area) 	 EO 1 – 2014: new ideas for Earth-relevant space applications EO 2 – 2014: Climate change-relevant space data reprocessing and calibration EO 3 – 2014: Observation capacity mapping for Atmosphere and Climate Change monitoring Plus continuity MACC (atmosphere) & MyOcean (marine): 11M€ ~21 Mio
2015	 SC5-18b-2015: Integrating North African, Middle East and Balkan Earth Observation-Coordination and Supporting Action SC5-15-2015: ERA-NET Cofund (~11Mio) SC5-17-2015: Demonstrating 'Citizens' Observatories' ~33 Mio 	 EO 1 - 2015: Bringing EO applications to the market - <i>Innovation Actions</i> EO 2 - 2015: Stimulating wider research use of Copernicus Sentinel data EO 3 -2015: Imaging technologies from space ~26 Mio



Looking into the future

- Development of a European Hub of the GEOSS information system
- Incubating new services and products for the citizens integrating Earth Observation
- Integrated Arctic Observing System
- Novel in-situ observation systems
- Provide disease emergence/break out monitoring platforms
- Stimulating operational Global Monitoring of Agriculture in the GEOGLAM context

Summary:



- ~ 115 Mio directly related to EO within the first H2020 WP (not accounting for RIs)
- Resources will be used for dedicated actions supporting:
 - The Copernicus service evolution/new services and uptake
 - Coordination mechanism in Europe for streamlining national and pan-European EO research (ERA coordination)
 - Promoting GEOSS as a source of dataset for H2020 and as a system for sharing data and information resulting from H2020 activities
 - Integrating Copernicus into GEOSS and reinforcing their in-situ components
 - Consulting and mobilising the EU EO private sector and to develop a EU strategy to transform GEO into a lever to support EU industry



Find out more:

http://ec.europa.eu/research/participants/portal/desktop/en/home.html

Thank you for your attention!

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