

Climate change research & innovation

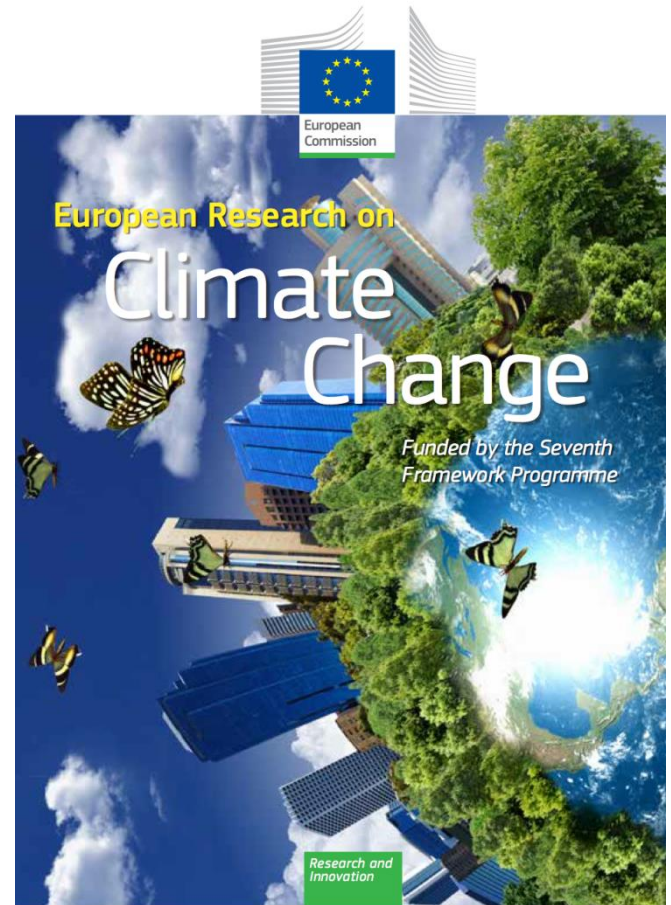
in the Horizon 2020 programme

Serena Pontoglio

**Unit I.4 Climate Action and Earth Observation
European Commission
DG Research and Innovation**

European climate change research in FP7 - Research themes

- *Climate process and climate system studies, including paleoclimate studies*
- *Modelling and prediction, including general circulation models*
- *Research on the impacts of climate change*
- *Socio-economic analysis, including analysis of both the impacts of climate change and response options*
- *Research and development on mitigation and adaptation technologies*



**Climate change research in FP7 -
download the catalogue of funded projects:**
<http://bookshop.europa.eu/en/research-on-climate-change-pbKI0313365/>

Climate change research in the 7th Framework Programme (FP7) – an overview

- ***FP7 (2007-2013) was the EU's main instrument for funding research in Europe and beyond from 2007 to 2013.***
- ***In FP7, from 2007 to 2012, about 800 Million Euro have been spent to support climate related research, through the Cooperation Programme which provided support for research projects carried out by consortia with participants from different countries and through the funding of investigator-driven 'frontier' research awarded by the Ideas programme of the European Research Council (ERC).***
- ***Other activities*** funded by the Framework Programme are to be added, notably on energy and transport, which contribute to the identification and development of mitigation options through energy efficiency, renewable energy and more environmentally friendly transport systems
- ***Numerous European research projects have provided essential input to IPCC AR5***

Climate change research in the 7th Framework Programme (FP7) – international cooperation

- Around **13% of the total spending for climate change related research** (more than 100 Million Euro) has been dedicated to international cooperation
- The majority of it provided funding to research institutions in FP7 associated countries, followed by beneficiaries in Africa, Latin America and Asia
- Close collaboration with the **Belmont Forum**, to improve coordination of research strategies and priorities (co-design, co-alignment, and co-funding of major research programmes)

The figures do not include the results of the calls for proposal of the last year of the implementation of FP7 and are based on the analysis of CORDA data.



HORIZON 2020

**The New EU
Framework Programme for
Research and Innovation**

2014-2020

**European Commission
Research & Innovation**



What's new

- **A single programme** bringing together three separate programmes/initiatives*
- **Coupling research to innovation** – from research to retail, all forms of innovation
- **Focus on societal challenges** facing EU society, e.g. health, clean energy and transport
- **Simplified access**, for all companies, universities, institutes in all EU countries and beyond
- **€ 79 billion from 2014 to 2020**

* The 7th Research Framework Programme (FP7), innovation aspects of Competitiveness and Innovation Framework Programme (CIP), EU contribution to the European Institute of Innovation and Technology (EIT)

Mainstreaming of climate and sustainable development objectives

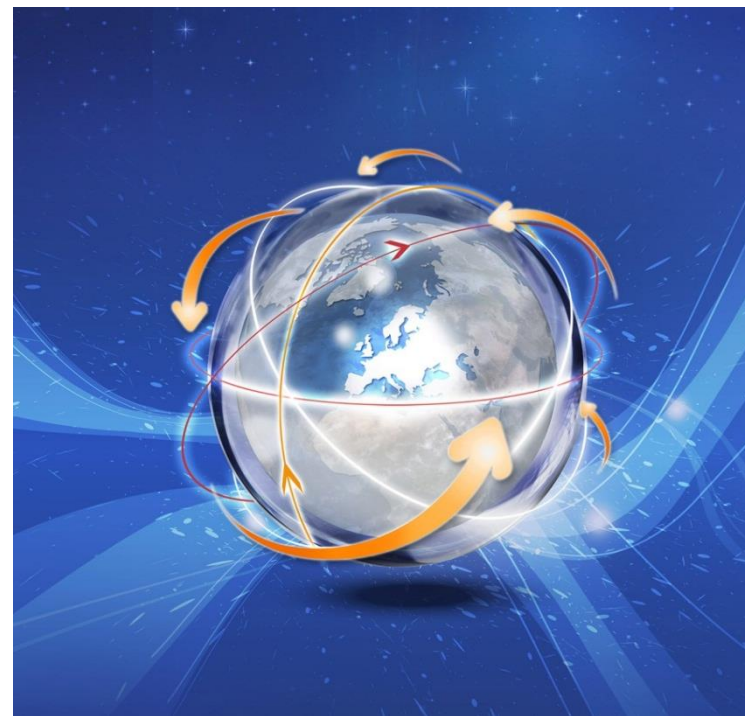
Climate action, resource efficiency and sustainable development supported across the whole of Horizon 2020

- Climate-related expenditure should exceed 35% of the overall Horizon 2020 budget
- At least 60% of the overall Horizon 2020 budget should be related to sustainable development



International cooperation

- **Open to the world!**
the programme will remain the most open funding programme in the world
- *Open to the association of enlargement countries / EFTA / European Neighbourhood*
- *Targeted actions to be implemented taking a strategic approach to international cooperation*
- **To consult the rules for funding:**
http://ec.europa.eu/research/participants/data/ref/h2020/grants_manual/hi/3cp/h2020-hi-3cp_en.pdf



SC5 CALL: Growing a Low Carbon, Resource Efficient Economy with a Sustainable Supply of Raw Material:

- *Flagship initiative on European **climate services***
- *Supporting climate policy through the development of **strategic capabilities in climate projection, prospective economic analysis and international cooperation***
- ***Climate change adaptation***
- ***Continuous support to GEO***



Flagship initiative on climate services

SC5 CALL: Growing a Low Carbon, Resource Efficient Economy with a Sustainable Supply of Raw Material:

In the call launched in 2014:

Advanced Earth-system models

Water cycle under future climate

and in the Call of 2015:

ERA for Climate Services

Coordination action: b) Earth-system modelling and climate services

In the SPACE call of 2014:

Data reprocessing and calibration

Observation capacity mapping



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**Thank you
for your attention!**

Find out more:

www.ec.europa.eu/research/horizon2020

<http://ec.europa.eu/research/iscp/index.cfm>