



# Addressing global societal challenges through EU research funding

**Horizon 2020 supporting climate change research**

**7th UNFCCC Research Dialogue  
Bonn, 4 June 2015**

# CLIMATE CHANGE in Horizon2020

the 2014-2020 EU framework programme  
for research and innovation

The EU is committed to spend at least  
**35%** of the overall 80 billion Euro budget  
of Horizon 2020 for Climate-related  
research and innovation actions

# Fighting and adapting to climate change

Climate action in Horizon 2020 is **challenge-driven** and **solution-oriented**, with focus on:

- Developing climate services in Europe and worldwide, also including actions to help the climate services market grow
- Designing realistic and cost-effective decarbonisation pathways
- Addressing critical climate change hot-spots like the Arctic



# Current actions – WP2014-2015

## Contributing to Climate services development:

- ✓ Advanced Earth System Models (2014)
- ✓ Water cycle under future climate change, incl. extreme events (2014)
- ✓ Adaptation to climate change: i) assessing costs, risks and opportunities; ii) demonstration of options and practices (2014, 2015)
- ✓ ERA-NET on climate services (2015)

## Contributing to the Decarbonisation initiative:

- ✓ The economics of climate change and linkages with sustainable development (2014, 2015)
- ✓ Improving air quality & reducing carbon footprint of European cities (2015)
- ✓ Integrated approaches to food security, low-carbon energy, sustainable water management and climate mitigation (2015)

# Work Programme 2016-2017

## Main climate change-related topics:

- ✓ Implementation of the Roadmap for **Climate Services**
- ✓ Developing integrated approaches to deep decarbonisation **pathways**
- ✓ Climate change hotspots: the **Arctic**
- ✓ Earth Observation: monitoring agro-production in **Africa**



# Research capacity building – lessons learnt

## Factors of effectiveness:

- ✓ The 'general opening' of the EU research framework programme to third countries is an asset but needs to be completed with **targeted actions**
- ✓ **Involvement** of local stakeholders from the design phase to raise ownership and dedication
- ✓ **Coordination** needed between EU research funding and development aid: embedding research modules into institution building
- ✓ Coordination among international capacity building programmes, as well as (when appropriate) with the private sector, in order to raise **impact and sustainability**

# Research capacity building – good practices

- ✓ Climate services **co-development** with the involvement of DG Research and Innovation, the EU aid office and potential local stakeholders (on-going).
- ✓ **COPERNICUS** climate change services: European operational programme developing Earth observation infrastructure with global coverage that will provide data, data products, and model outputs for free and open access
- ✓ FP7 **Africa call**: cluster of projects with numerous African participants, cutting across several fields
- ✓ **Joint renewable technology** development and deployment through collaborative projects, with embedded PhD training programme, workshops and summer schools.

# Thank you for your attention!

HORIZON 2020 Participant Portal

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

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