CLIMATE CHANGE in Horizon 2020
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

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