



Towards a European Market of Climate Services

Horizon 2020 Climate Service Roadmap

Commission's Perspectives and Rationale

Small number of flagship initiative identified by Climate Action and the Resource Efficiency Directorate of DG Research and Innovation

Objective:

- **Build Europe's resilience to climate change by strengthening significantly the capacity of Europe and the global market for climate services**

Climate Services – supporting adaptation, mitigation and DRM

The transformation of climate related data – together with other relevant information and data – into customised products such as projections, forecasts, information, trends, economic analyses, assessments (including technology assessments), counselling on best practices, development and evaluation of solutions, and other services in relation to climate or responding to climate change that are of use to society



Initiating Workshop - 18th March 2014

- **Networking** – presence of providers, purveyors and users of climate services – representing a variety of societal and business sectors and of intermediary organisations – and engaging with existing international and European networks (as well as other sectoral associations and platforms)
- **Horizon 2020 and Copernicus Climate Change Service** – close partnership to support a flow of research results supporting the operational service
- **User-driven projects** – the needs of actual and potential users has to be up-front (user driven and science informed). Both research and innovation (user-driven demonstration projects, climate services dedicated SME call, public procurement for innovation)



Initiating Workshop - 18th March 2014

- **Widening European Capabilities** – extending the research and innovation capabilities in support of climate services to a wider number of EU countries
- **International Cooperation** – combining research, innovation, training and capacity building with a focus on less developed countries (Africa)
- **Data, Data Infrastructure and Research Infrastructure** – supporting the development and access to data and climate services required to allow transforming the information and data available into the required climate services (including the required e-infrastructure)
- **Standardisation, Certification, Quality Assurance and Issues Related to Liability** – research related to standardisation of data and protocols, a certification system and QA methodologies that are required to address legal and liability



Initiating Workshop - 18th March 2014

- **Public and Private Dimension of the Market** – consensus that market should be comprised of a public good dimension together with a private dimension – boundary between is complex and will need to reflect the evolution of demand and supply, as well as technologies, skills and capacities

Follow-up of the Workshop

- Expert Group establish working with the Commission to develop a long-term Research and Innovation Roadmap for climate services, and to identify the demand-side measures that could facilitate the growth of the market
- To be delivered by the end of 2014 targeting the next H2020 programming cycle (2016-17)
- Second workshop – presentation of the Roadmap (Feb/March 2015)



Draft Roadmap – H2020 Societal Challenge

Roadmap - Long-term investment in research and innovation activities and actions supporting the strengthening of capacity and growth of the market:

Enabling market growth

- Understanding and growing the market (demand and supply), interpreting users' requirements, co-design and co-development, stimulating demand and new business models

Building the market framework

- Building the climate service community, computing/IT infrastructure for delivery and use of climate services, QA/QC and standards, building and widening capabilities



Draft Roadmap – H2020 Societal Challenge

Roadmap - Long-term investment in research and innovation activities and actions supporting the strengthening of capacity and growth of the market:

Delivering value

- User-driven demonstrations and innovation in services

Enhancing quality and relevance of services available

- Providing relevant and usable climate and other supportive data, information and tools consistent with clearly reflecting end-users' requirements and capacities (science and innovation for climate services" interpreted through users' needs)
- Co-design and co-delivery engaging users, providers, purveyors and researchers is fundamental to delivery



Delivering the Roadmap 2015-2020

Number of different instruments including:

- ERA-Net – currently developing such an ERA-Net working with the JPI-Climate
- Coordination Action – supporting engagement
- Specific research activities
- Demonstration projects, SME calls and public procurement for innovation actions
- Use of structural funds, Climate KIC and its regional innovation and implementation communities



Engaging the UK Climate Service Community

Engage providers/purveyors of climate services within the UK to:

- Provide them with an opportunity to inform deliberations within the UK and Europe related to the delivery of climate services; and
- Enable effective participation in such broader initiatives thus supporting the development of the UK climate services market.

Four workshops scheduled for November 2014

Belfast – 06th November

London – 11th November

Edinburgh – 14th November

Cardiff – 27th November





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