Engaging Stakeholders

Users, providers and the climate science community

JPI-Climate WG2 Workshop: National Dialogues in Europe
Thursday, 08th May 2014

Roger B Street
Module 2

Lessons Learned – Users' Needs

Services (knowledge, information and data) needed are those needed to support decision and policy making

- Starting with the decision / policy framing – vulnerabilities, sensitivities
- More than just descriptions of the current (and future) climate or impacts
- Adaptation is a decision-making process that requires reflection of uncertainties framed in the context of that process

Credibility and legitimacy of the services and service providers are critical attributes

Support and engagement are critical elements of climate services – understand what is available and how it can and is intended to be used; recognising that these will change over time

Lessons Learned – Users' Needs

Need for demonstration projects / programmes / activities that:
- Bridge gaps between providers and users, and climate researchers
- Demonstrate how existing and new climate information can improve decision making

Development and dissemination of good practice guidance:
- Learn from research and application projects
- End-user engagement in science for climate services through trans-disciplinary research and knowledge exchange

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Lessons Learned – Providers' and Researchers' Needs

Awareness of users' / decision makers' needs and of what climate services are providing and can provide:
- The gap between climate data and information provided and that needed
- How climate services fit into users' decision-making processes and relative priority of climate considerations in those processes
  - Linked to interest in enhancing the pull from users for climate services
- Where users currently access climate services and why
- Nature and scope of current and future users' needs (foresight)
- Users' current and changing technical capacity to ingest climate services

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Lessons Learned – Providers' and Researchers' Needs

Awareness of users in the context of:

- Capacity (including funds) and willingness to be involved in developing and delivering climate services and in the related science
- Breadth of users those engaged represent and how better to involve the spectrum of users – services and science that are capable of supporting a broader spectrum of users

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Realising these Needs

Sustained engagement of users, providers and climate researchers

- Aim is informed engagement from concept to delivery and beyond
- Continuous improvement informed by users' needs, and service and science capabilities
- Both access and support are necessary
  - Defined and delivered working with users, providers and climate researchers
  - Variety of information / knowledge reflecting diversity of users
  - Single snapshots are insufficient – evolving information and support
  - Different delivery mechanisms – time series, images, web-based, etc.

- Continuous learning and sharing of practice and theory are necessary – users' forums

Move from a data (supply)-driven approach to one that is decision (demand) driven informed by science

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Realising these Needs

Need for mechanisms to support engagement / networks – open
- Raise awareness of supply and demand for climate services
- Co-evaluate the effectiveness of climate services and process with users
- Discussions related to QA/QC
- Need for mechanisms to support development of skills needed to work in inter-disciplinary and trans-disciplinary space
- Users need to be better coordinated to bring needs forward to climate science

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Realising these Needs

Funding to support the building and maintenance of the infrastructure to support climate services, including:
- The natural, physical and social sciences – climate service science
- Supportive databases (decision-relevant climate information, impacts, vulnerabilities and adaptation metrics (qualitative and quantitative))

Funding to support engagement, and knowledge exchange and mobilisation
- Enhancing users' capacity to participate
- Supporting users' contributions to climate service science (co-production, evaluation and dissemination)
- Networking of users, providers and researchers

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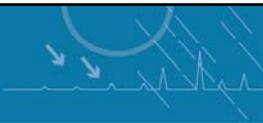
Towards a European Market of Climate Services
Workshop of the European Commission, DG Research and Innovation

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Towards a European Market of Climate Services

Workshop goal:
- Feeding into the development of a Roadmap for research and innovation for Horizon 2020 and beyond - fuel the growth of a European market of Climate Services.
- Ambition was to begin the process of bridging users' needs with current and future science capabilities – translated into high-added-value and targeted services for a variety of end-users

Participants (124 participants representing 80 different organisations)
- Organisations representing those producing climate information, those currently or potentially users of climate services, and intermediaries (technical and business consultancies)

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Climate Services and Horizon 2020

- Transformation of climate related data into customised products, counselling on best practices, development and evaluation of solutions and other services in relation to climate that may be of use for the society at large – building a climate-smart economy and society

Market for climate services – H2020 provides the basis

- Innovation policy and creation of a market is part of H2020 - research and innovation programme that address societal challenges and that will stimulate business
- Market in which businesses will be providing climate services – making use of supply and demand
- Ready to experiment and deploy new instruments, including pilot and demonstration projects
- To be effective requires a reference framework at the EU level, providing a direction to national efforts

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Users' and Providers' Panel Discussions

Not only a regular flow of climate data, but merge those with other sources of data (e.g., socio-economic) and with various kinds of modelling and assessment tools, impact and vulnerability data and adaptation and mitigation solutions – translate into useful and usable services

It is in the development of options for solutions that climate services may express their best market value

Need for a proactive dialogue including those facilitated by intermediaries – mutual ignorance about needs, potential and limitations of climate services

Continued focus on improving the availability and 'density' of climate data and information

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Beginning the Dialogue

Three breakout groups to identify key areas of research and innovation to be tackled within the 7 years of H2020, and relevant processes and instruments to generate a market of Climate Services in Europe.

Climate Services for Policy Making	Climate Services for the Business Sector	Climate Services for International Cooperation
Mine and mobilise knowledge generated through FP7 and H2020 to inform CS	Putting market value on services and understanding competitiveness	Capacity building – users, providers and climate researchers
Mine policies and practices for knowledge to inform CS	Communications and marketing – co-creation	Integration of CCA and DRR – institutional barriers
Support M&E of adaptation policies and projects	Instruments and initiatives – dialogues, SME innovations	Links to sustainable development
What comprises public and private CS and required interface	Importance of sector-based and cross-sector assessment – sharing and learning	Transformation and translation to evidence and knowledge – science/policy
Policy infrastructure necessary to incentivise and support private sector climate services	Structural shortcomings, knowledge gaps for research and innovation – economics of climate services	Link to the international policy dimensions – attribution to extreme events and losses and damages

Possible Next Steps Identified

Networking – Coordination Action of Societal Challenge 5 on 'Earth-system modelling and climate services'

- Potential establishment of a 'Climate Services User Forum' to structure the demand site

JPI-Climate supported by a major ERA-scheme in 2015 – may lead to establishment of a large public-public partnership (Art. 185)

User-driven projects in H2020

- Potential launch of user-driven demonstration projects
- Potential climate services dedicated SME call in 2016

Widening European Capabilities – potential initiative in combination with use of structural funds

International cooperation

- Research, innovation, training and capacity building – LDC with focus on Africa

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Possible Next Steps Identified

Data, data infrastructure and research infrastructure
- Copernicus and other dataset made available – to allow transforming climate data and information into services
- European infrastructure to be addressed in cooperation with ESFRI and in partnership with DG CNECT and the JRC

Standardisation, certification, QA and issues related to liability
- Specific research activities foreseen, including in cooperation with JRC

Public and private dimensions of the market of climate services
- Free and open access to observational data (GEO and Copernicus data policy
- Boundary between the public good dimension and private – based on natural evolution of technologies and of skills and capacities

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Follow-up to the Workshop

Expert Group (5) to work with the sub-group on climate services of the Advisory Group of H2020 Societal Challenge 5
- To develop a long-term research and innovation roadmap for climate services
- To identify the demand-side measures (those in other policy fields) that may facilitate the growth of a market
- Conclusions are to be delivered before the end of 2014 (to inform the H2020 programming cycle 2016-17)

A second workshop will be organised for public discussion of the Roadmap and of the Expert Group recommendations

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