

Climate science to services

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Overview

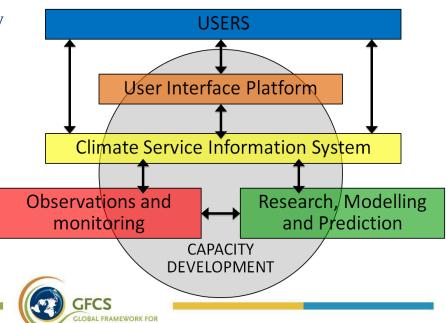
- The Global Framework for Climate Services
- Met Office climate services some examples
- Highlight some challenges and how we responded

Global Framework for Climate Services (GFCS)

Vision: enable society to manage better the risks and opportunities arising from climate variability and change, using science-based climate information

Priority areas:

- Agriculture and food security
- Water management
- Health
- Disaster risk reduction
- Energy





Delivering Science with Impact



- Contributing to a more resilient nation, better prepared for weather and climate risk.
- Helping government and business make wise choices for future investment in adaptation.
- Underpinning mitigation policies to avoid dangerous climate change.
- Supporting economic growth through better use of weather and climate information





(International) Climate Services

 We work closely with international, regional and national organisations and engage with climate-sensitive communities and sectors

Aligned to the Global Framework for Climate Services

- Co-develop climate services to support decision making
- Build capacity and provide training where helpful
- Coordinate initiatives where appropriate
- Draw on capability within the Met Office and partners





User engagement is key

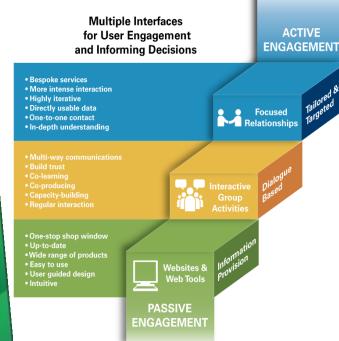
WMO Commission for Climatology international Expert Team on user engagement for climate services

- Identify and evaluate examples of user engagement
- Publish guidance on good practices, with case studies of good examples





WHAT ARE THE USERS' NEEDS?





- Work with Commonwealth nations to support climate change adaptation in small island states
- Collaborate with National Met. Services and regional centres in Pacific and Caribbean
- Share experiences and good practice











Australian Government





Climate Science for Services Partnership China





Develop climate science and services to support climateresilient development and social welfare in China

- Build collaborations between scientists in China and UK
- Identify user needs in priority sectors:
 - Energy
 - Agriculture and food security
 - Urban environments
 - Air quality
 - Water resource management
- Inform the science and pull-through the science
- Co-develop prototype climate services to respond to needs





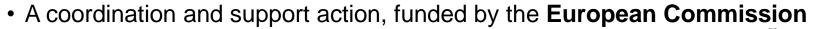






Collaboration







- A **network** of European scientists, policy makers, businesses, etc.
- Identifies gaps, new challenges and emerging needs



• Grow the climate services market and make society more climate-resilient























Challenges

- The concept of "USE'S"
- Scientific and technical Capabilities that underpin the service
- Scientific and technical Capacity of providers and recipients of services
- Understanding the CONTEXT
- Sustainability of services









Title



Programmes > WCP > Commission for Climatology > Focus Area 3

Expert Team on Tailoring Climate Information

This team is joint with Focus Area 2, same expert team

Members:

- 1. Mr David Walland (Australia, RA V) co-lead
- 2. Mr Chris Hewitt (UK, RA VI) co-lead
- Ms Khadija Kabidi (Morocco, RA I)
- 4. Mr Akira Ito (Japan, RA II)
- 5. Ms Claudia Villarroel (Chile, RA III)
- 6. Ms Beth Hall (USA, RA IV)
- 7. Mr Alex Pezza (New Zealand, RA V)
- 8. Ms Mirjana Ivanov (Montenegro, RA VI)

Mission:

 Provide guidance on the tailoring of climate information for user-level decision-making, including good practices on the applications of climate information.





Summary

- Met Office undertaking a wide range of climate service co-development and co-delivery
- Various challenges encountered (including "users", capabilities, capacities, context, sustainable)
- Approaches that work for us:
 - Focussed user engagement
 - Collaboration and partnerships
 - Prototyping
 - Evolve the science and services based on the user needs



Thank you for listening

