

D7: Climate Services

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Thursday, Room 407

■ Outline

- Short survey and Introduction
- Oral presentations
 - CORDEX data in the Climate Data Store (CDS) of the Copernicus Climate Change Service (C3S): current status and plans – Andras Horanyi
 - Regional climate simulations for the impact of climate change over the CAS-CORDEX domain – Sara Top
- PICO presentations of all the posters
- Workshop session with case studies
- Get together at coffee break

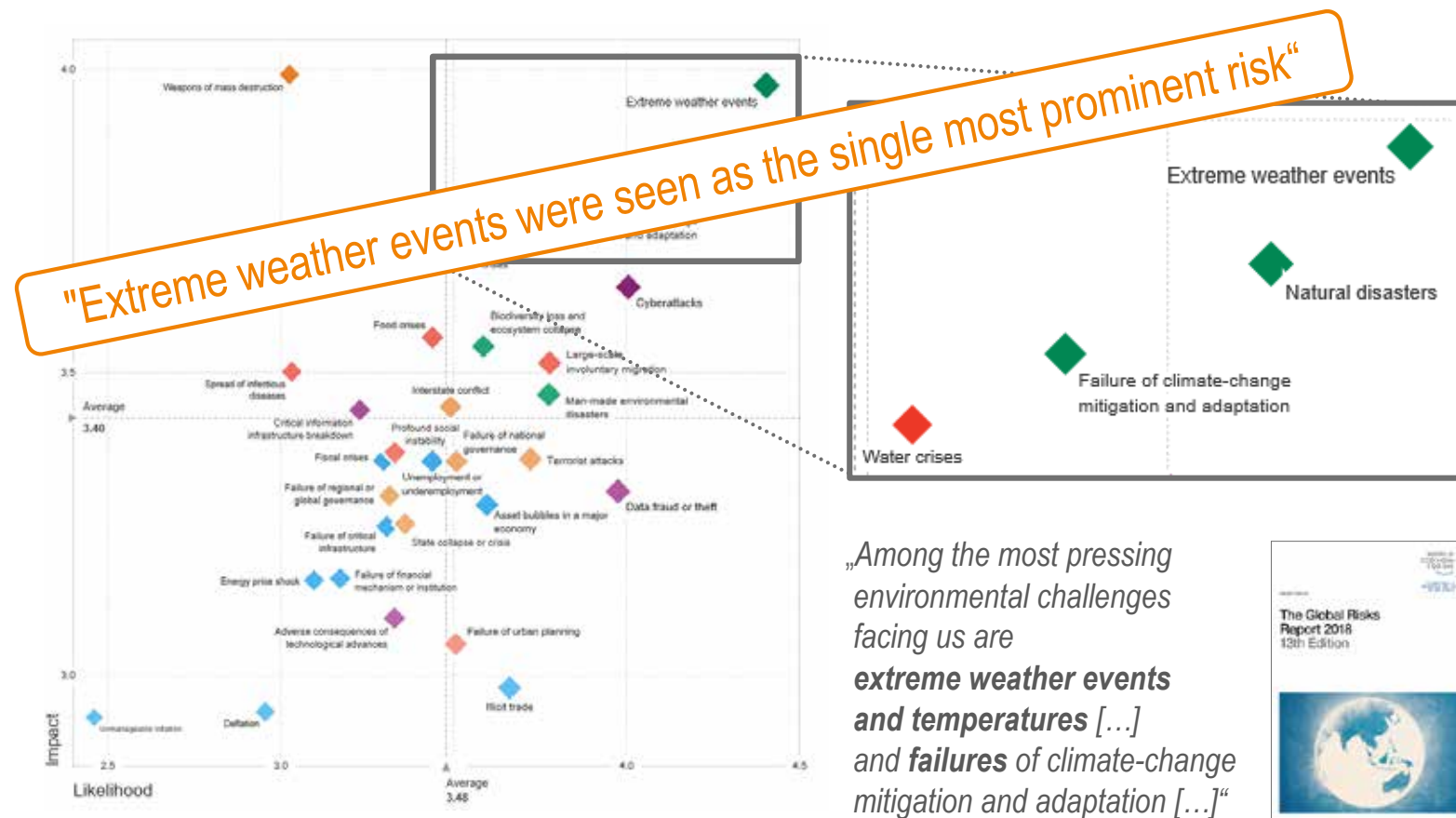
■ Survey

- Please go to www.menti.com
- 1st survey, use code: 54 39 1
- 2nd survey, use code: 82 91 78

■ Survey

- on the **usage of CORDEX data for climate service products**:
 - 1. Have you already analyzed CORDEX data to provide information to end-users? (Yes/No?)
 - 2. Do you think CORDEX data are appropriate for climate service products and what are the major challenges?
- **quality and relevance of the standard CORDEX-output**, by working on the questions:
 - 1. Does the standard CORDEX output (variables, temporal and spatial resolution) match the needs for climate service products? (Yes/No?)
 - 2. What can be improved concerning the temporal and spatial resolution and/or the variables to fit the needs of the end-users?
- **the needs for guideline and meta-information**:
 - 1. Is there enough guidance (meta-data, contact points, guidelines, etc.?) concerning the use and usage of CORDEX data for the provision of Climate Services? (Yes/No?)
 - 2. How can the usage of data be improved and is there a need for help or guidance concerning the data use?

World Economic Forum: The Global Risks Landscape 2018



■ Importance of bridging CORDEX to climate services

- In this session, we will continue to stimulate the dialogue on climate services in connection with CORDEX and its related communities.
- Aims:
 - assess whether CORDEX activities and climate service needs and expectations can be matched
 - highlight the developments of climate services
 - explore their potential transferability (especially between sectors and CORDEX regions).
- Topics:
 - best practises on how CORDEX products were recently used for climate service purposes
 - existing collaborations on co-development of climate services with relevant stakeholders and policymakers
 - How can CORDEX be further integrated in climate service developments?

Examples of observed local climate change impacts

Low river levels



Foto: picture alliance / dpa
<http://www.n-tv.de/mediathek/bilderserien/wissen/Deutschland-leidet-unter-Duerre-article15713066.html>

Molten track bed



Foto: ANC-NEWS
<http://www.derwesten.de/panorama/hitze-laehmt-den-verkehr-gleisbett-in-essen-geschmolzen-id10844539.html>

Heat damage - pavement



http://www.focus.de/fotos/die-hitze-hat-die-fahrbahndecke-der-autobahn-93-ander_mid_1315427.html

River floods



European Environment Agency:Adaptation of transport to climate change in Europe, Report No 8/2014 , S. 33

Flooded roads



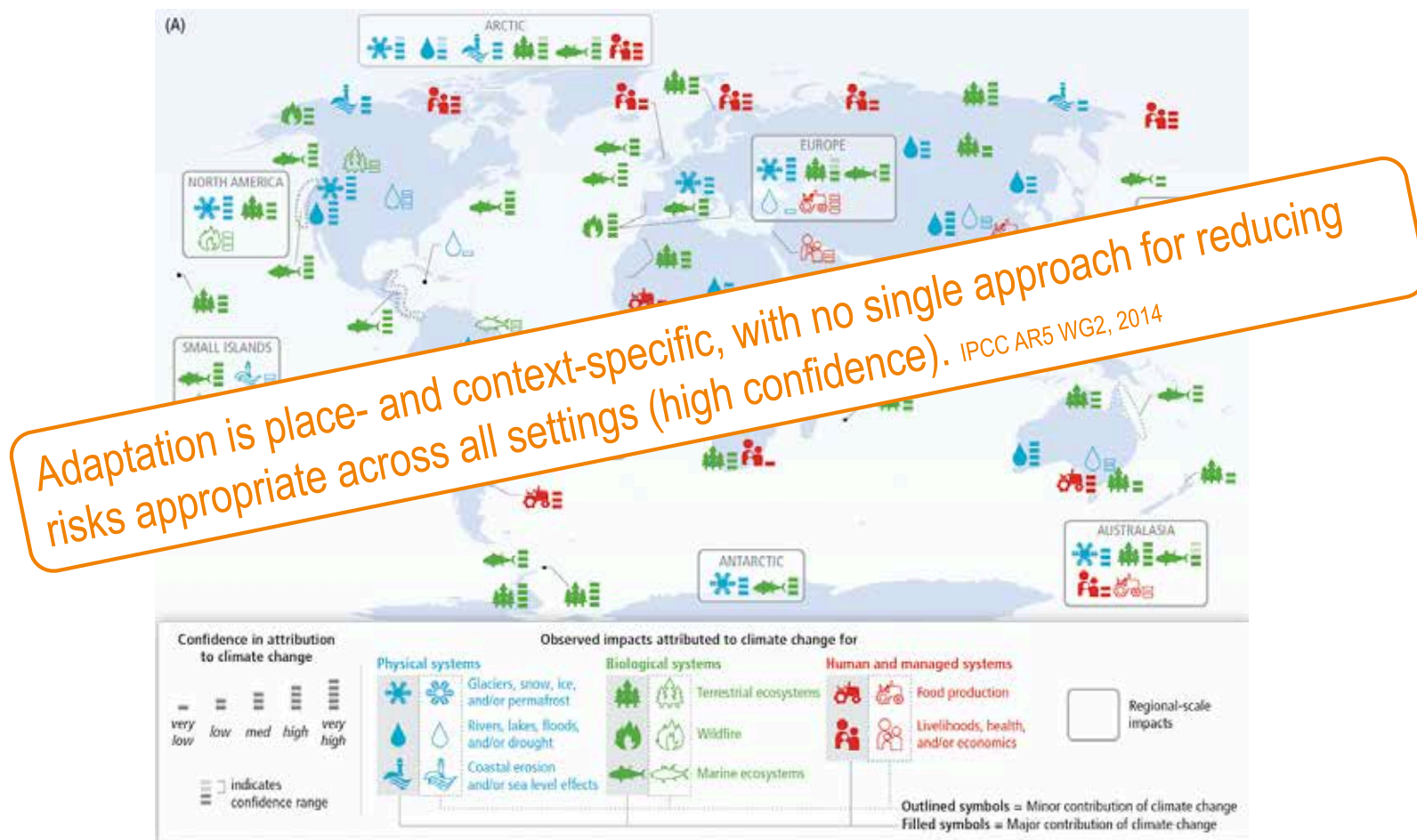
Foto: © Eva Liljegren, Trafikverket
 European Environment Agency:Adaptation of transport

Crop failures



Foto: picture alliance / dpa
<http://www.n-tv.de/mediathek/bilderserien/wissen/Deutschland-leidet-unter-Duerre-article15713066.html>

From IPCC Assessment Report 5 (WG I and II)



■ Outline

- Introduction and short survey
- Oral presentations
- **PICO presentations of all the posters**
 - Smallholder Farmers' Perceptions and Adaptations to Climate Change and Variability in Katakwi district, Uganda – Anthony Esabu
 - The need for flexible selection of climate simulation sub-ensembles for impact assessment in a climate service – Ole B. Christensen
 - The East Africa - Peru - India Climate Capacities (EPICC) project is co-developing climate services for and with partners from the water, agriculture and related sectors – Stephanie Gleixner
- Workshop session with case studies
- Get together at coffee break

■ Outline

- Introduction and short survey
- Oral presentations,
- PICO presentations of all the posters
- **Workshop session with case studies**
 - **For the workshop session, we would like to introduce a couple of case studies demonstrating climate service. Three main topics:**
 - 1) What role does CORDEX data play in the case study? How could it be enhanced to improve the climate service development?
 - 2) How could the case study be transferred to other regions around the world? What are the main opportunities and challenges?
 - 3) How would you advance the case study if \$3 Mill. (or unlimited funding) would be available?
- Get together at coffee break

■ Case studies:

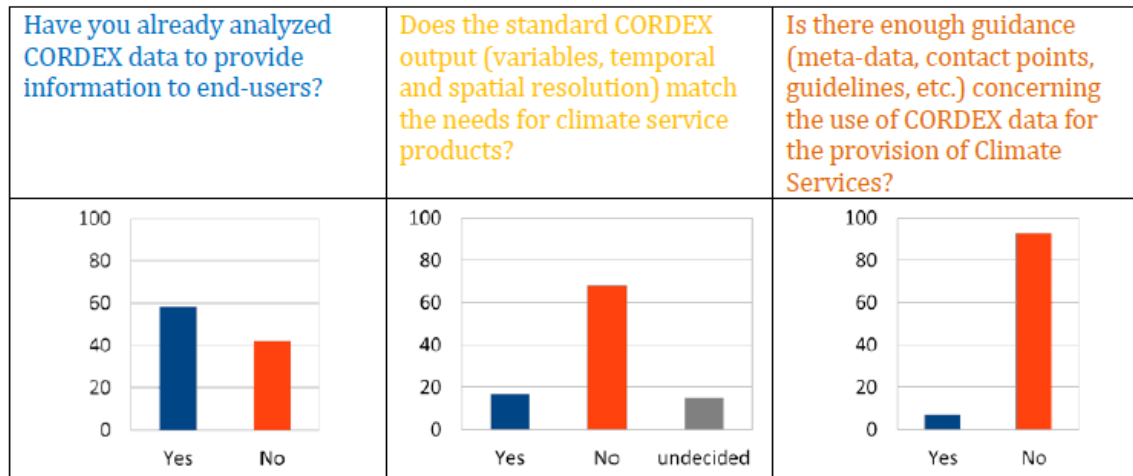
Case Studies:

- Climate change estimations of fluvial discharge from the main Andean rivers - Lluís Fita / Jan Polcher
- Smallholder Farmers' Perceptions and Adaptations to Climate Change and Variability in Katakwi district, Uganda – Anthony Esabu
- The East Africa - Peru - India Climate Capacities (EPICC) project is co-developing climate services for and with partners from the water, agriculture and related sectors – Stephanie Gleixner
- Other suggestions for case studies
 - Invite case studies from other sessions
 - Find relevant topics from the plenary session

■ Questions

- 1) What role does CORDEX data play in the case study? How could it be enhanced to improve the climate service development?
- 2) How could the case study be transferred to other regions around the world? What are the main opportunities and challenges?
- 3) How would you advance the case study if funding is available?

■ Survey results



Reporting