

ECRA 10 year event

Overview of the ECRA Collaborative Programmes

CP-SLC Sea Level Change and Coastal Impacts

Gianmaria Sannino
& Ingo Sasgen



CP-CHC Changes in the Hydrological Cycle

Elisa Palazzi & Ralf Ludwig

CP-HIE High Impact Events and Climate Change

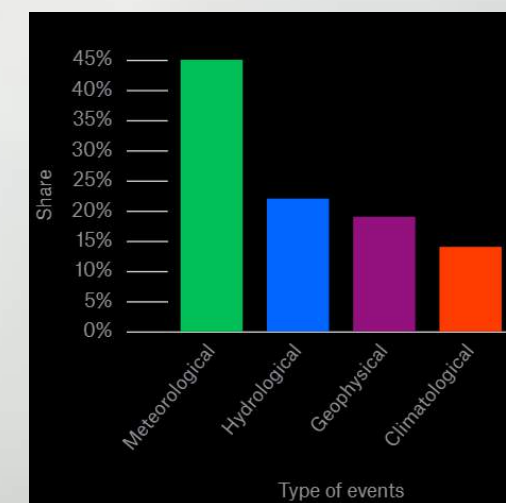
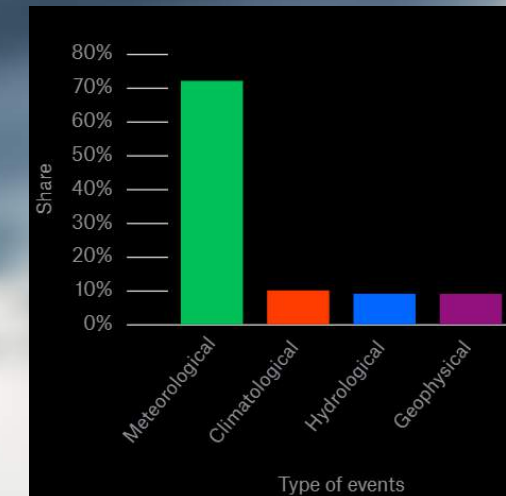
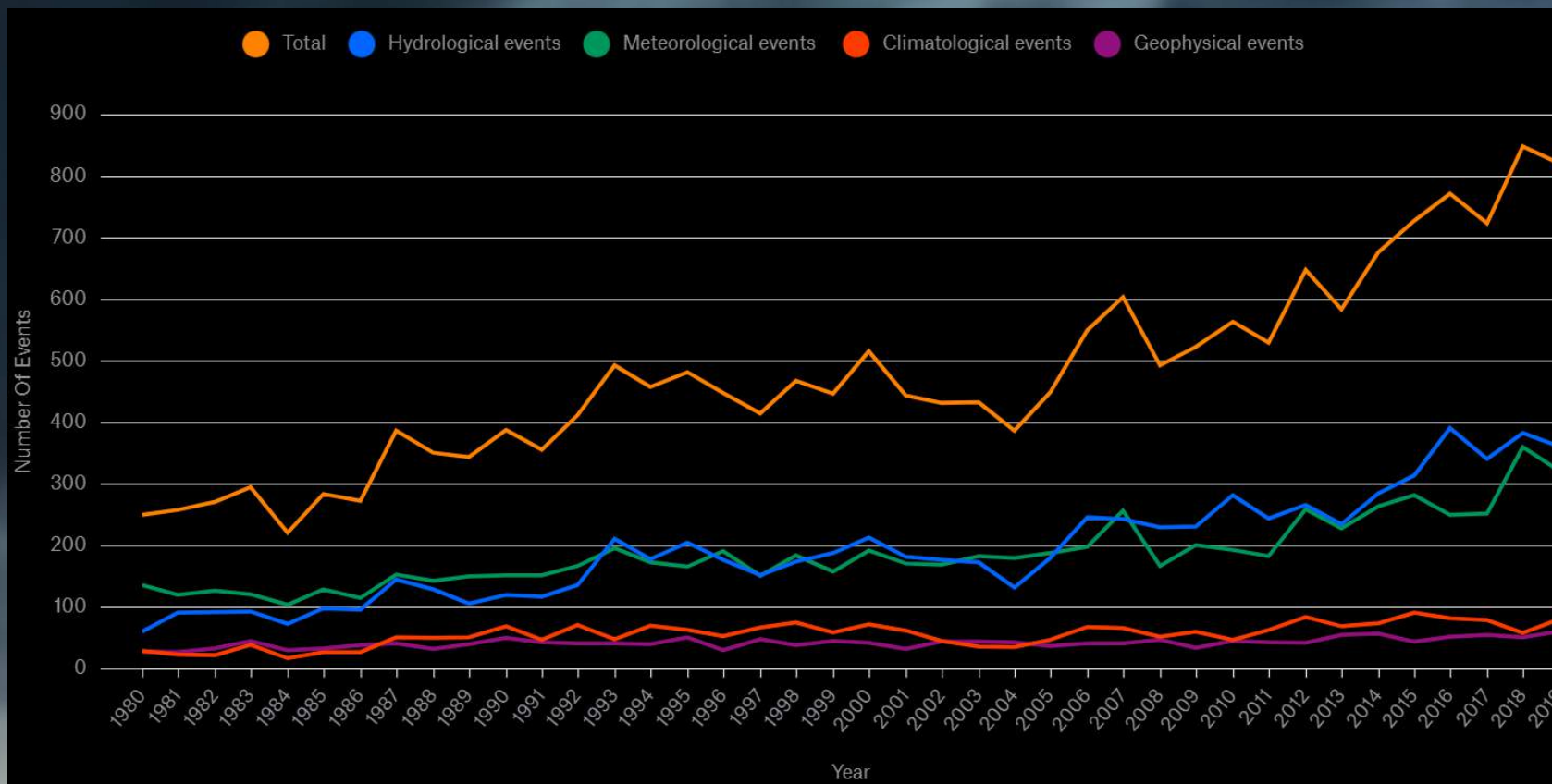
Martin Drews & Hilppa Gregow



CP-ARC Arctic Climate Stability and Change

Lars Smedsrud

With climate change comes more high impact events



Source: NatCatService – Munich RE

CP-HIE Aims and Scope

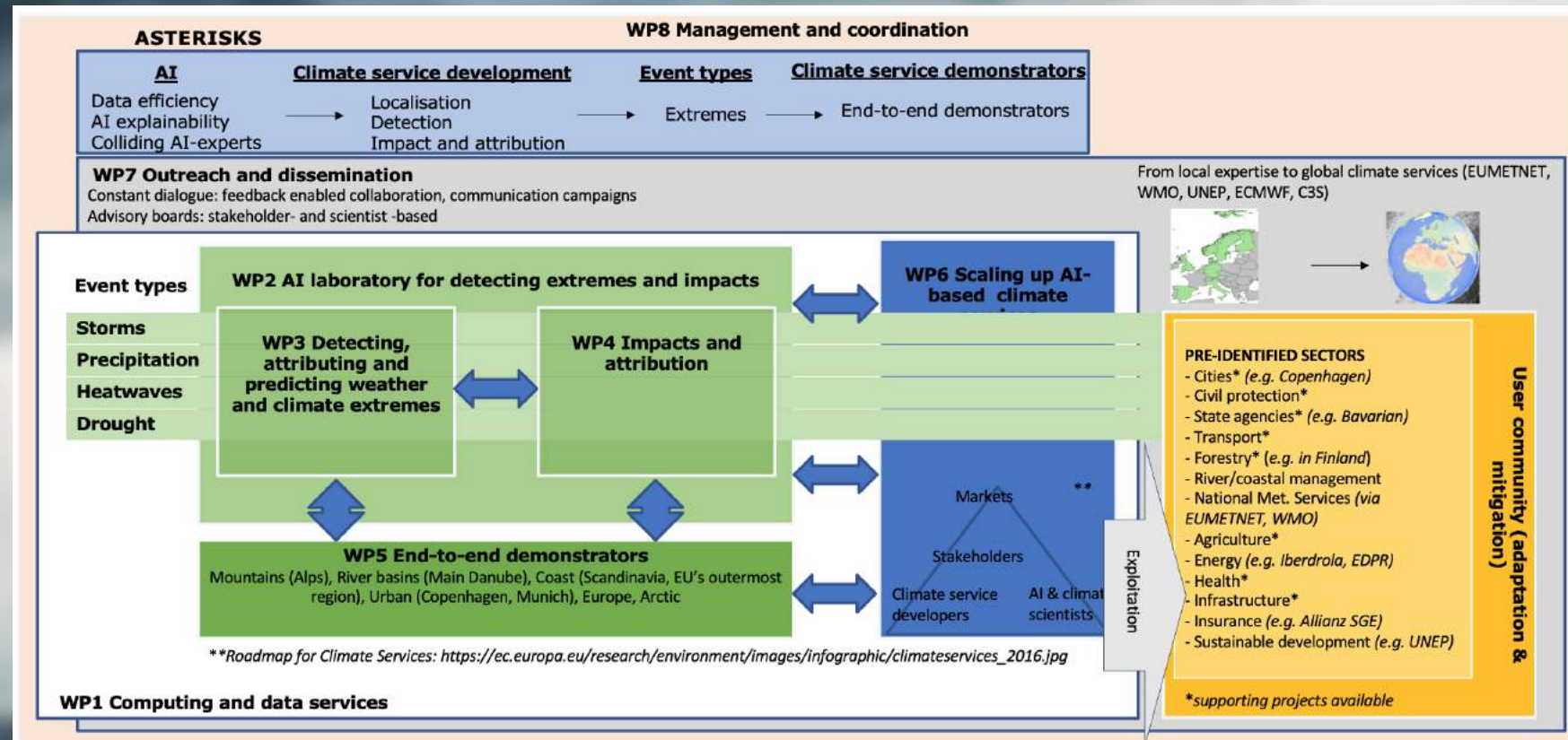
- To improve our understanding of **key mechanisms**, including assessment of past and future high impact events, compound events, detection & attribution
- To advance the science behind **climate change projections**, including high resolution climate and impact modelling, AI
- To produce **climate information at relevant scales**, including statistical and dynamical downscaling
- To contribute to advancing **climate services**: Climate risk analysis, vulnerability and adaptation, interdisciplinary collaboration
- *To reach across all other CPs*

To advance climate and interdisciplinary research on high impact events for society

- **Support & inspire key activities** within H2020/ Horizon Europe, JPI Climate/ ERA4CS, Copernicus programme (e.g. lead and/or support collaborative program research)
- Stimulate **international cooperation** (e.g. researcher exchanges, workshops, conference sessions – EGU, EMS, etc.)
- **Communication and dissemination** (e.g. Special Journal issues)
- Identify **research priorities from the bottom-up**
- Provide **scientifically-based advice**

ASTERISKS - Artificial Intelligence for Climate Services To Enhance Adaptation towards RISKS of Extremes (Second Stage)

- H2020 proposal coordinated by FMI (CP-HIE)
- Core group of ECRA, CP-HIE and CP-CHC partners



Mitigation and Adaptation



ACCC

CLEAN AIR. SAFE CLIMATE.

With Prof Markku Kulmala et al.

With FMI
e.g., LMU
ECMWF,
C3S

Health impacts

VECLIMIT

With Prof Olli Vapalahti et al.

**VECTOR-BORNE DISEASES AND CLIMATE CHANGE IN FINLAND:
MAPPING, MODELLING, MITIGATION**

VECLIMIT Consortium led by Prof. Olli Vapalahti funded by the Academy of Finland for a special call on "Climate Change and Health"



With Prof Markku Kulmala et al.

**LEARNING OF THE COMPETENCIES OF EFFECTIVE
CLIMATE CHANGE MITIGATION AND ADAPTATION
IN THE EDUCATION SYSTEM**

ClimComp project blog 2021-2024

[ABOUT CLIMCOMP](#) [RESEARCH](#) [RESEARCH TEAM](#) [LINKED PROJECTS](#) [CONTACT](#)

About ClimComp

Learning of the competencies of effective climate change mitigation and adaptation in the education system (ClimComp) is a research project funded by the Academy of Science Finland 2021-2024.