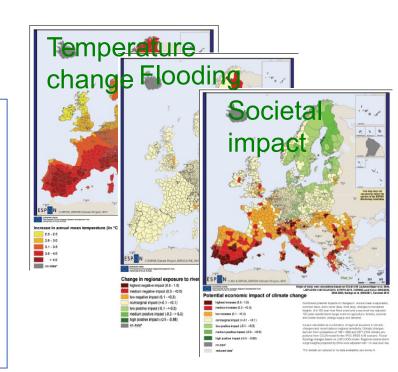
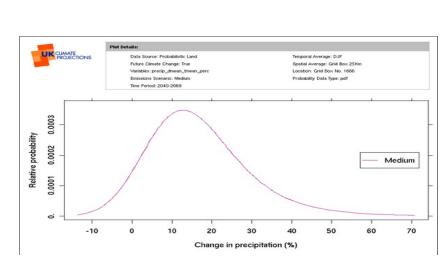
A Climate Information Platform for Copernicus www.clipc.eu

Martin Juckes (martin.juckes@stfc.ac.uk), Rob Swart, Peter Thysse, Wim Som de Cerff, Annemarie Groot, Victoria Bennett, Luis Costa, Johannes Lückenkötter, and Sarah Callaghan

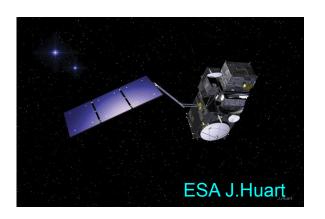
CLIPC Mission

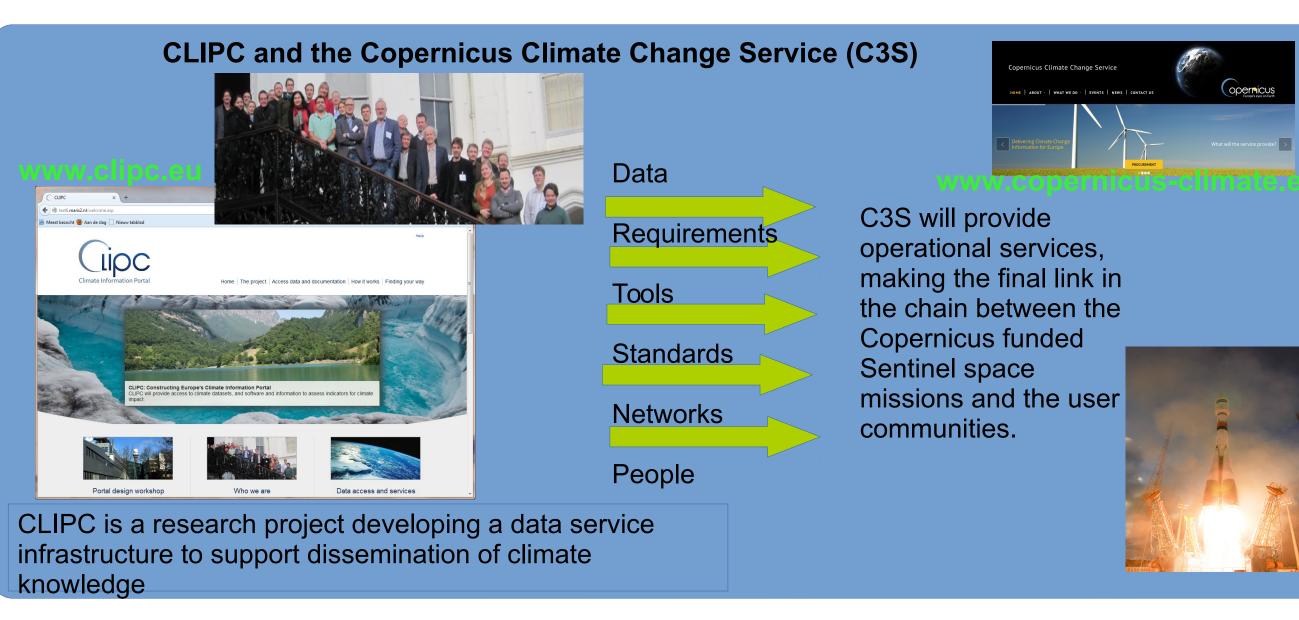
- CLIPC will design a platform to provide access to climate information of direct relevance to a wide variety of users, from scientists to policy makers and private sector decision makers;
- The "one-stop-shop" platform will provide data and information on climate and climate impacts, and ensure that the providence of science and policy relevant data products is thoroughly documented;
- Engage with user communities to inform development.

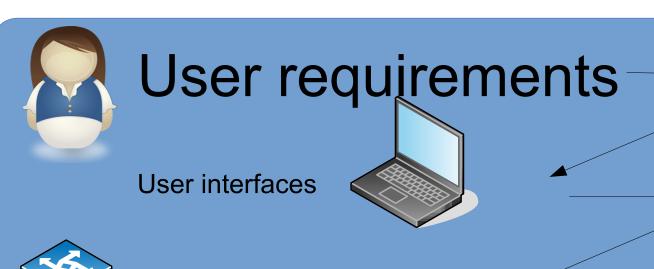












► I want a list of datasets relevant to me

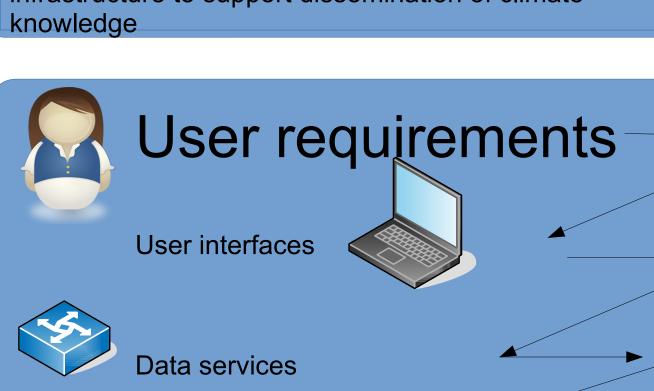
Flexible search options, driven by vocabularies

Exploit standards for flexibility, robustness, and meeting user expectations

Earth System Grid Federation

INSPIRE and ISO 19115 compliant catalogues; well known file formats; interdisciplinary data format standards; well documented data format protocols.

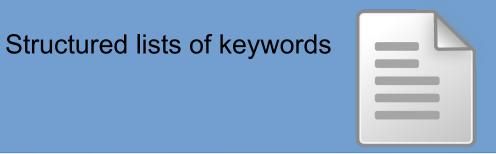
All terms defined in trans-disciplinary W3C standard documents, including definitions of relations between terms.



Structured archives and repositories

Standards for data and meta-data

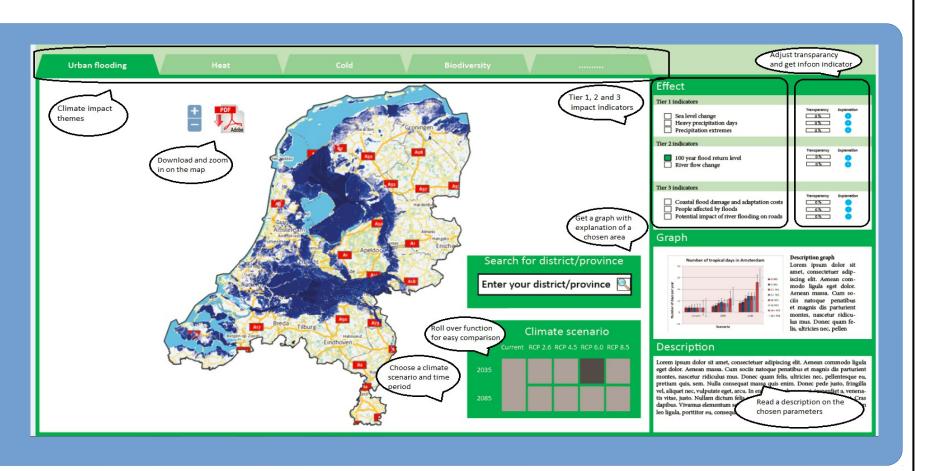




Visualisation and transformation

A dedicated visualisation portal, building on generic data standards and Web Map Services, will provde users with a flexible and intuitive tool for navigation of climate impact indicators.

Additional interfaces will support access to climate data and a toolbox for ranking and aggregating indicators.



Exploring uncertainty



Ross Salawitch Research Group

While projections of global mean surface temperature are now well understood, substantial uncertainty remains in many areas of more direct relevance to climate service users.



Daintree Rainforest, Queensland, Australia, Wikipedia

Standards

European Commission

• INSPIRE: Infrastructure for Spatial Information in the European Community

International Standards Organisation

• ISO 19115 for catalogue meta-data

World Wide Web Consortium

- SKOS for knowledge organisation
- PROV for provenance information
- PRO for publishing roles

Open Geospatial Consortium

• WMS, WPS for visualisation and transformation services.

Global Climate Observing System

• Essential Climate Variables

Domain standards

- Climate Forecast Conventions (CF) for scientific data
- Gridded Binary format for re-analysis (GRIB)

CMIP conventions for climate scenario data

• Expert Team on Climate Change Detection Indices (ETCCDI)















University of Reading

















