

Copernicus Climate Change Service

Climate Change

Stijn Vermoote, ECMWF Tervuren, 13 November 2019









A Union that strives for more

- ➤ Within 100 days introduction of the European Green Deal, which will include:
- European Climate Law
- Extension of Emission Trading System
- European Climate Pact for education and motivation purposes
- The Sustainable Europe Investment Plan supporting €1 trillion of investment
- ➤ By 2050 Europe should be the first climate-neutral continent in the world





Copernicus Climate Change Service: our mission

To support European adaptation and mitigation policies by:

- Providing consistent and authoritative information about climate (past, present, future)
- Building on existing capabilities and infrastructures (nationally, in Europe and worldwide)
- Stimulating the market for climate services in Europe











the C3S European entreprise^{*}

C3S builds upon a strong European capacity

295 different entities from 29 EU and ECMWF Member States, International Organisations and third countries

Total budget: 215 Meuros over 7 years





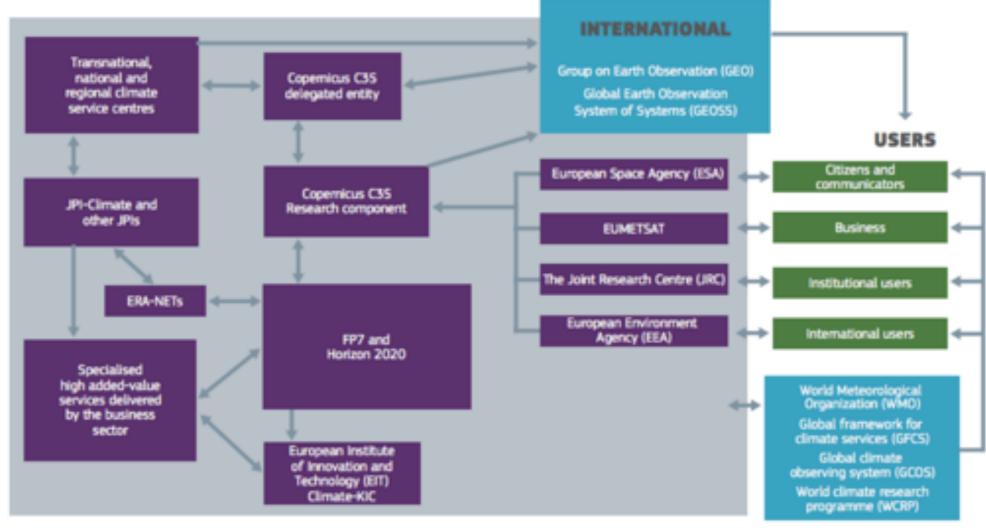






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C3S... part of a bigger picture



Credit: European Commission







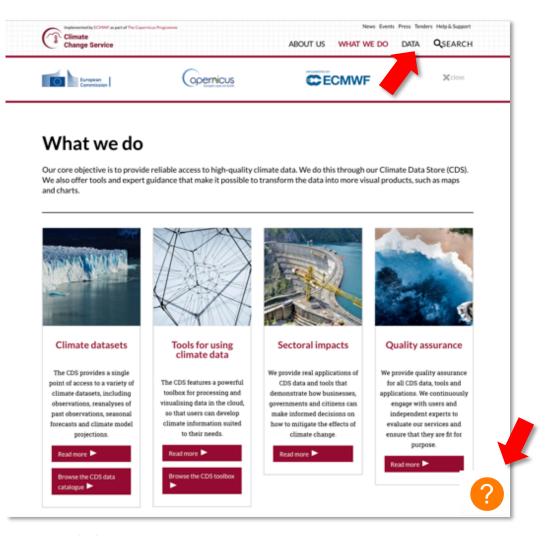


What the Climate Change Service has to offer

- Open and free access to climate data
- Tools needed to use the data
- Information on sectoral impacts
- Quality assurance
- User support and training
- Climate change assessments
- Outreach and communication

A one-stop Climate Data Store

climate.copernicus.eu





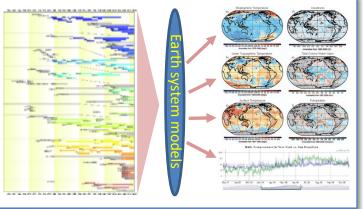






C3S portfolio:

past, present and future climate data and information



Climate Change

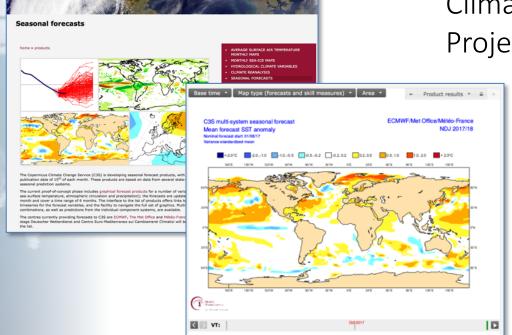
Observations, climate data records, ECVs and climate reanalyses

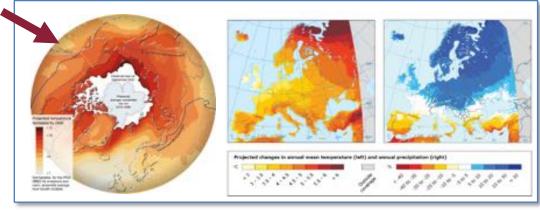
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Courtesy: Philip Brohan

Seasonal forecast data and products

Climate Projections Sectoral climate impact indicators







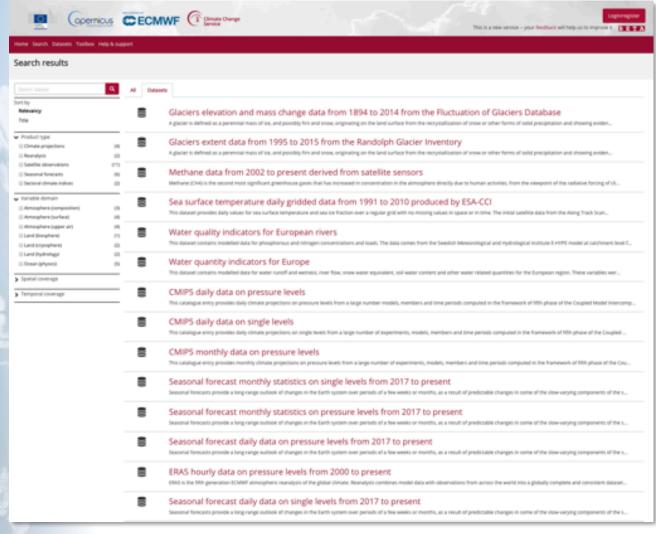


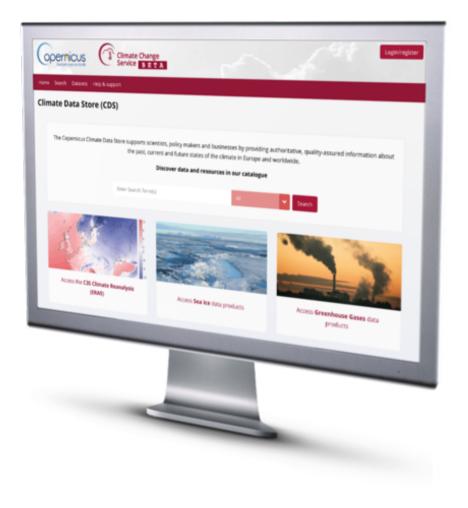




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Catalogue of climate datasets: uniform look and feel





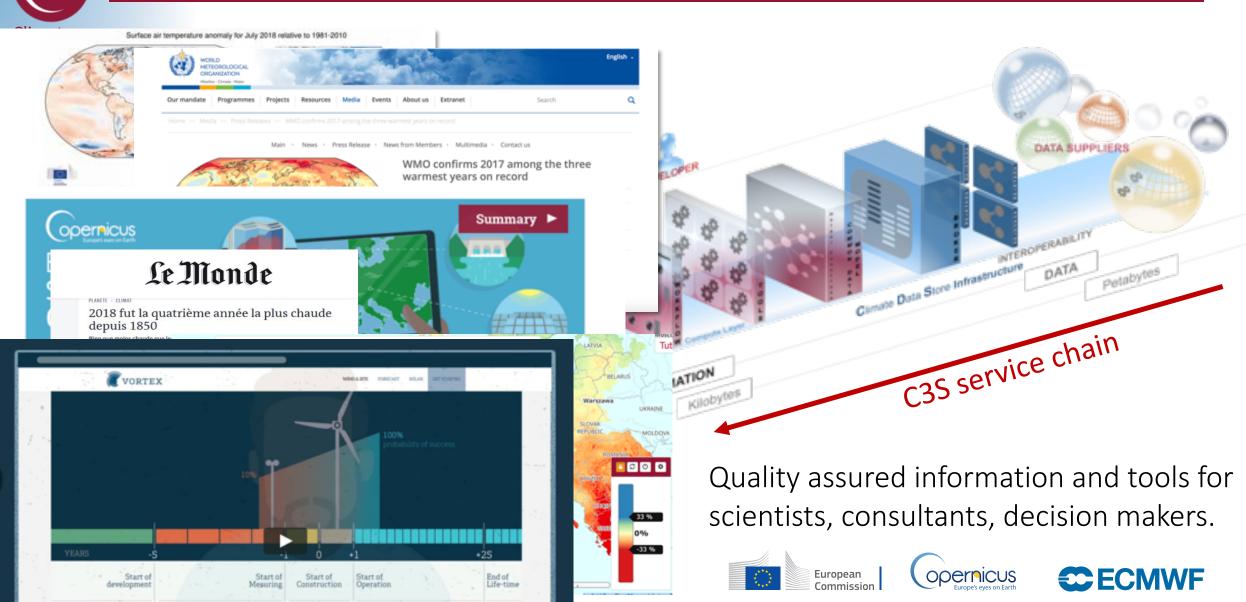








Transforming data into useful information products

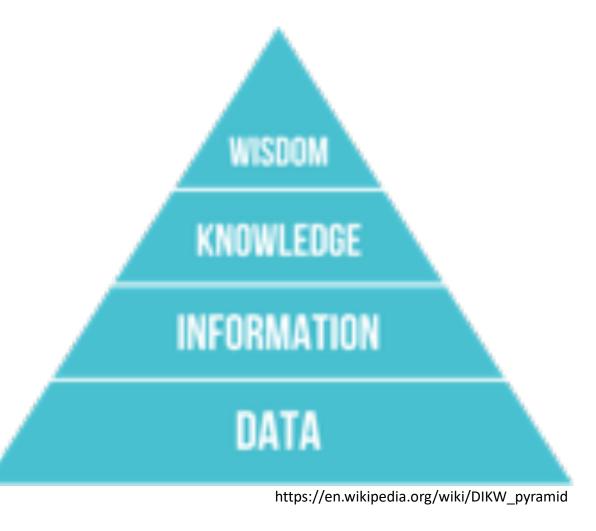




Data and information ≠ the endpoint

We are part of a value chain which we need to foster and enable to create value to users

... this does not only happen at the level of data or information but at knowledge and wisdom







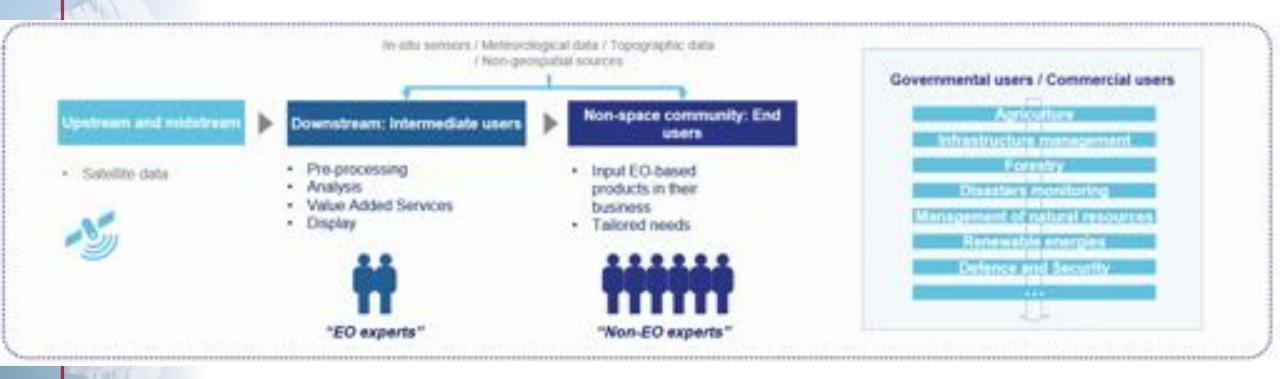




The value chain from a user perspective

C3S acts as an enabler:

we are part of a solution which in many occasions also requires input from the downstream sector







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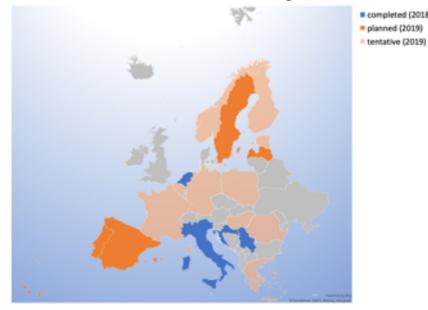
USER LEARNING SERVICES

Focus on the use of the Climate Data Store to address climate change adaptation challenges

Key elements:

- Blended training
- Online training resources freely available anywhere and anytime
- Personalized learning
- 3 main target audiences
- In-country training events in local language in more than 30 EU countries
- Train the trainers to widen the reach of the training and increase the impact

Past, current and future training events



In the pipeline: the first C3S MOOC



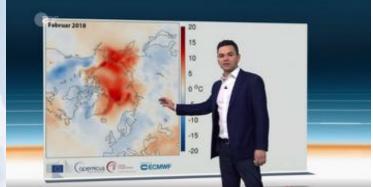




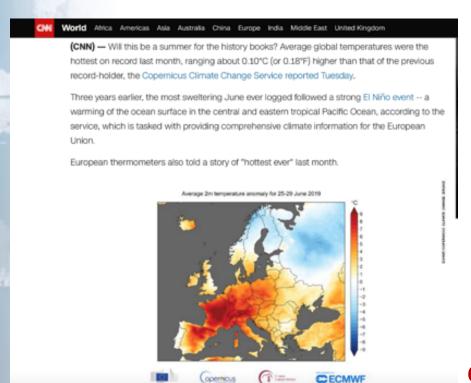


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Examples of user uptake by the media



Credit: ZDF – German State TV, Özden Terli, C3S





BBC, July 2018







CONCLUSION

C3S: an operational service since summer 2018

C3S benefits from European underpinning research and provides an infrastructure for downstream applications



Climate Change

C3S delivers > 60 Tbytes /day to ~ 25 000 CDS users (total number of users is much higher)

C3S is now a mainstream resource in the media

Huge effort has been made on the infrastructure (CDS), traceability and quality assurance, as well as on training and outreach

C3S acts as an enabler for the climate services market, active User Engagement is part of the future service delivery







