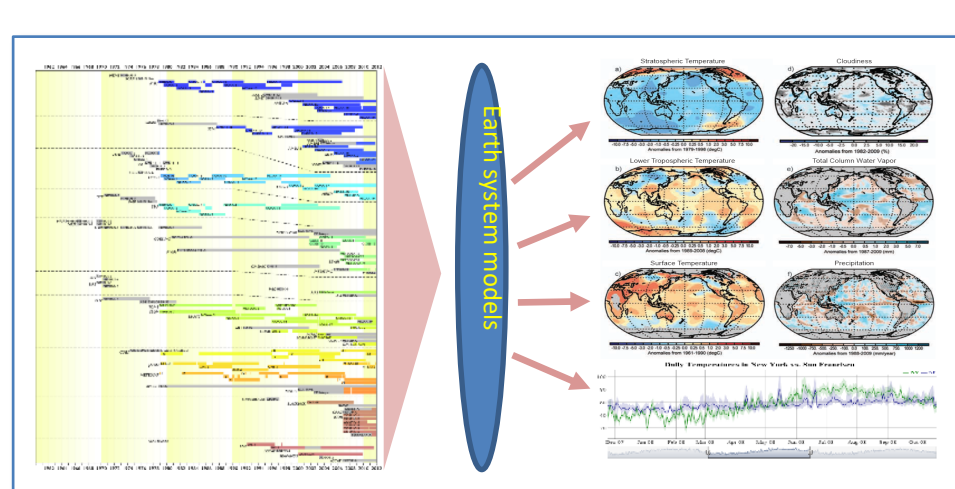


## The Copernicus Climate Change Service (C3S):

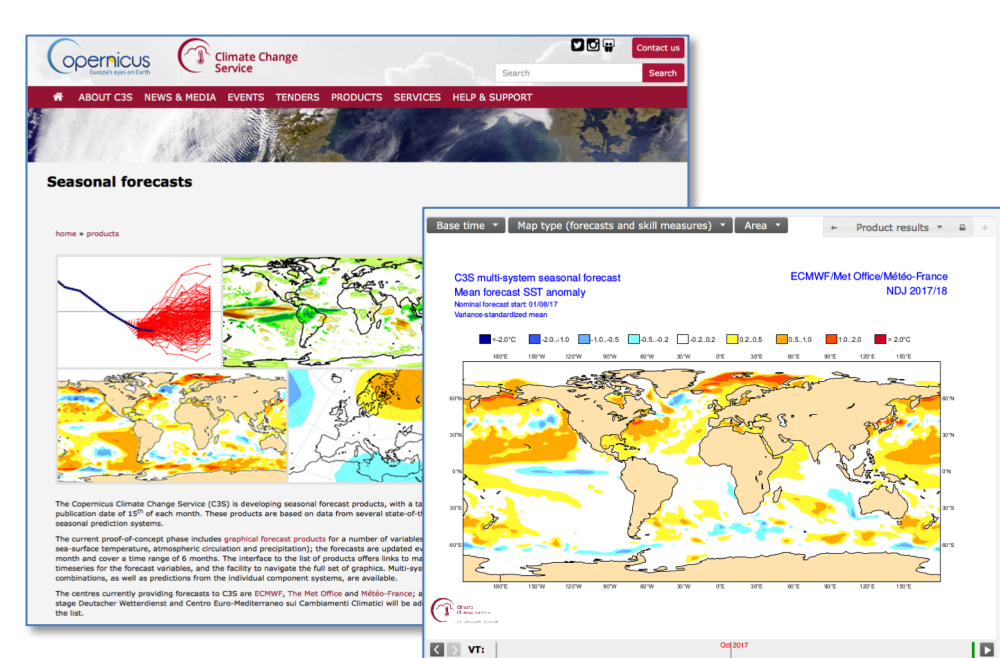
### Data and tools to support adaptation actions around the globe



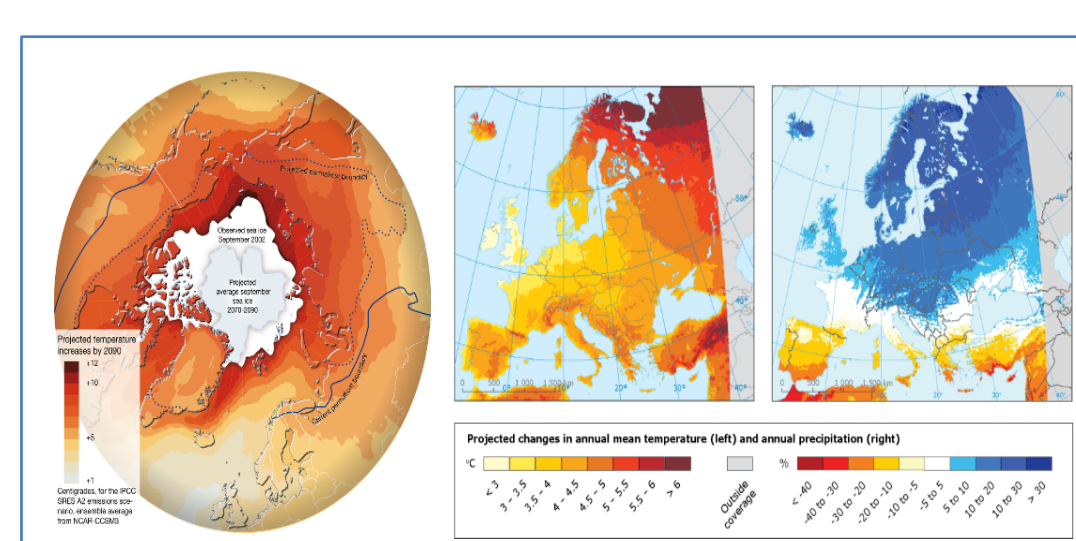
C3S is a free information service of the EU's Copernicus programme on Earth observations. The service offers free and open access via the internet to the best available climate data and to the tools needed to use these data. We listen to our users and endeavour to help them meet their goals in dealing with the impacts of climate change.



Reanalyses, Climate Data Records and ECV products



Multi-model seasonal forecasts



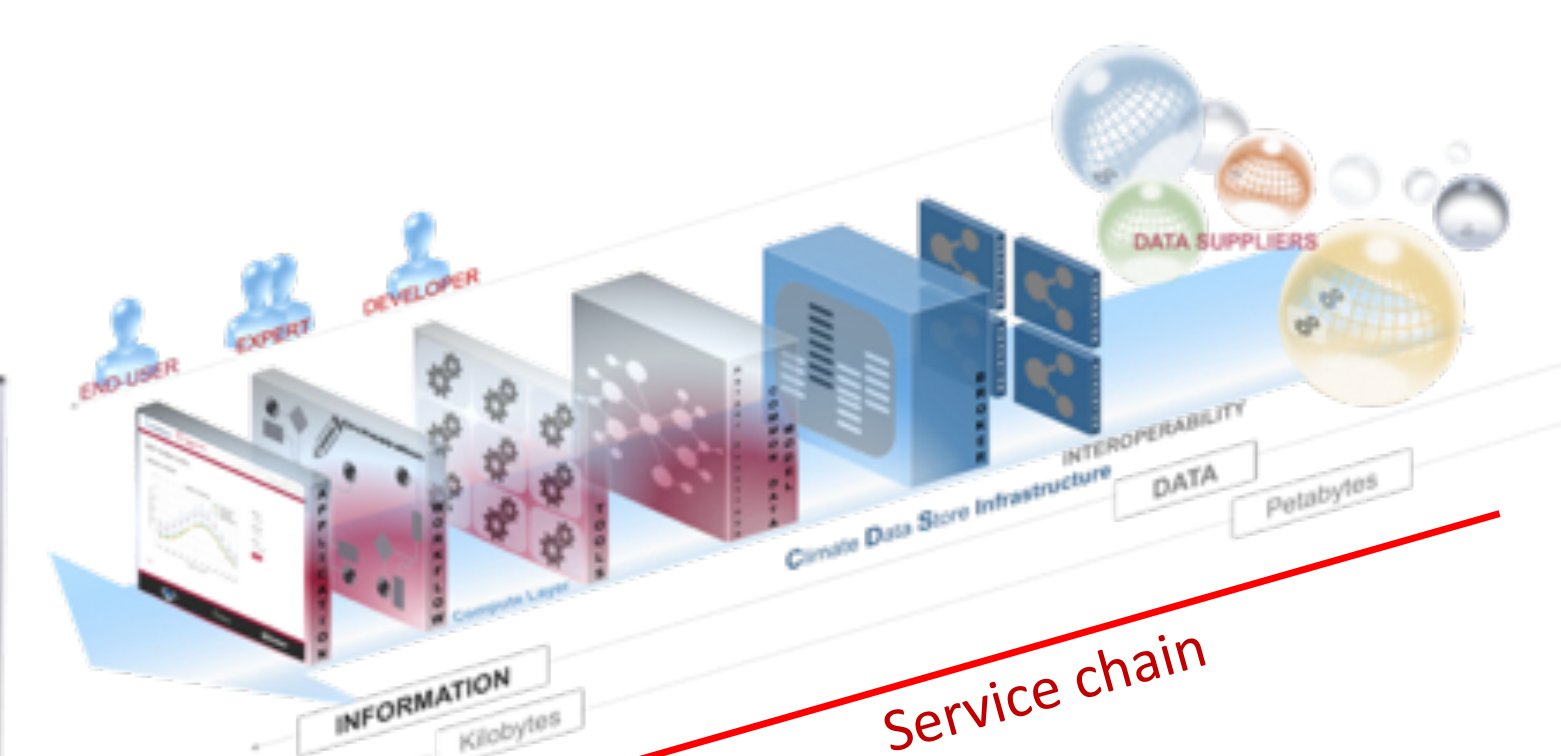
Global and regional climate projections

#### Climate Data Store and Toolbox

C3S has developed a **Climate Data Store** that provides easy access on the internet to a variety of high-quality, up-to-date, global datasets about the impacts of past, present and future climate change.

The **Climate Data Store** is continually updated with new data based on the latest science, including observations, reanalyses of past observations, seasonal forecasts and climate model projections.

The **Climate Data Store** offers tools and expert guidance that make it possible to transform complex climate datasets into useful visual products, such as maps and charts.



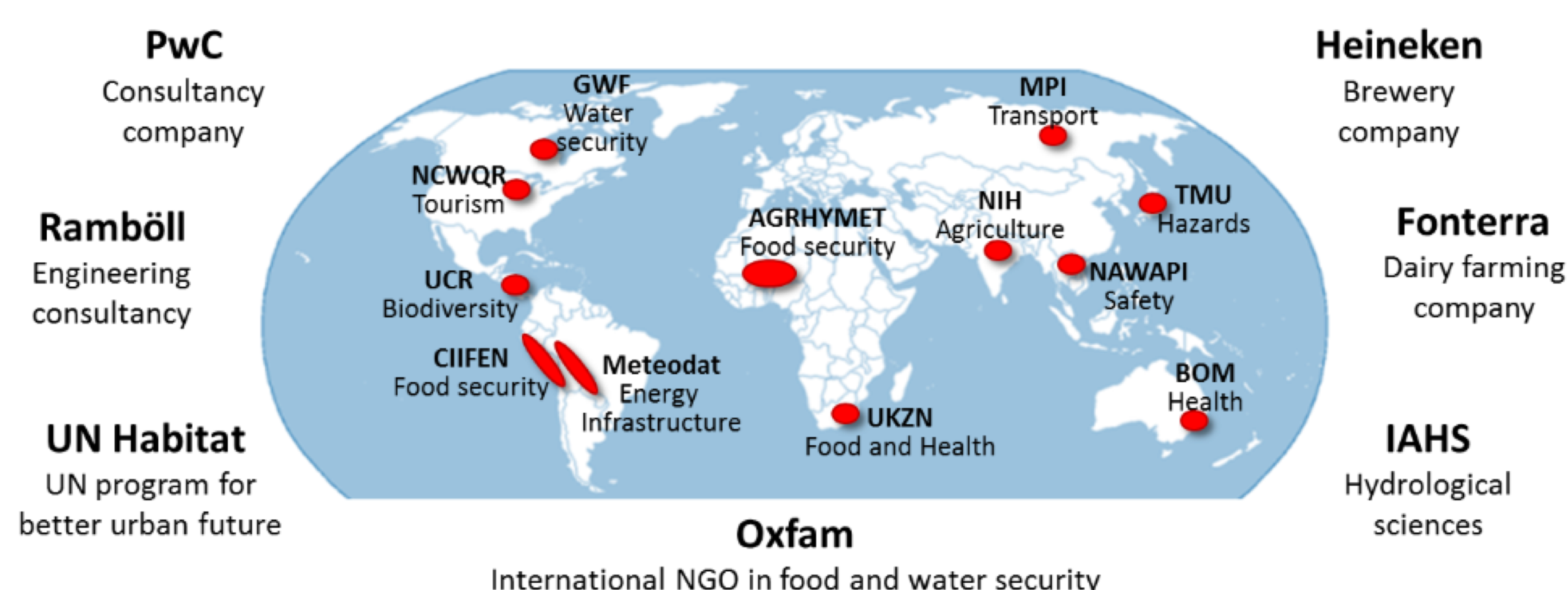
Quality assured information and tools for users: scientists, consultants, decision makers.

[cds.climate.copernicus.eu](https://cds.climate.copernicus.eu)

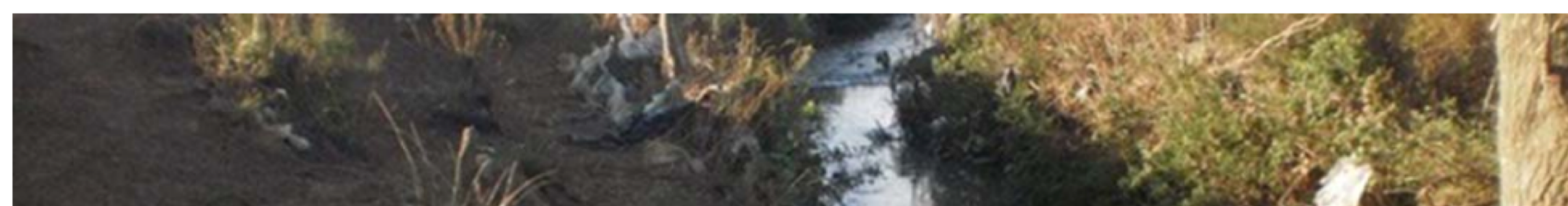
#### C3S support for global adaptation

Users anywhere can use data and tools available on the **Climate Data Store** for their own local needs. C3S can provide user support, training and guidance where needed.

The C3S website contains many examples that demonstrate the potential of the **Climate Data Store** in supporting adaptation in different industrial sectors and regions of the world.



#### Health, food and water security in South Africa (UKZN)



##### Description and Results

##### Quality Assurance

##### Climate Atlas

The 3<sup>rd</sup> highest risk facing the water utility - Umgeni Water - responsible for supplying potable water to consumers within the uMngeni catchment, including those in the greater Durban-Pietermaritzburg area in South Africa, is the potential impact of a changing climate on both the quantity and quality of the water resource. This case study will focus on improving the understanding of the potential changes in water quality in the uMngeni catchment under a future climate.

#### Food security in West Africa (AGRHYMET)



##### Description and Results

##### Quality Assurance

##### Climate Atlas

Due to variability and climate change, extreme hydroclimatic phenomena such as droughts and floods have become recurrent in West Africa. This greatly affects the main socio-economic sectors such as agriculture and livestock and therefore food security. Forecasts of the characteristics of the rainy season need to be improved to help decision-making. As part of this case study, we will use seasonal climate forecasts and the HYPE hydrological model to predict the different characteristics of the rainy season.



English



French

<https://climate.copernicus.eu/global-showcases>