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COPERNICUS Climate Change Service (C3S)
National User Forum Workshop

Roma, February 27, 2017

The National Climate Service Network
La Rete Nazionale dei Servizi Climatici

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The **National Climate Services Network of Italy (NCSNI)**

In answer to the need of increasing and improving the participation to **WMO and GFCS** programs on operational climatology, the National Permanent Representative to WMO took the initiative of establishing a **National Climate Services Network of Italy**.

The NCSNI It is a network of Italian public entities expressing a national portfolio of existing operational climate products and capabilities, with requirements and characteristics already adopted (or to be adopted) by territorial management entities.


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AERONAUTICA MILITARE
SERVIZIO METEOROLOGICO
1923
2008
Sistema Nazionale
per la Protezione
dell'Ambiente
cmcc
Centro Euro-Mediterraneo
sui Cambiamenti Climatici
PROTEZIONE CIVILE
Presidenza del Consiglio dei Ministri
Dipartimento della Protezione Civile
National Climate Services
Network of Italy
(NCSNI)
crea
Consiglio per la ricerca in agricoltura
e l'analisi dell'economia agraria
Consiglio
Nazionale delle
Ricerche
ENEA
Agenzia nazionale per le nuove tecnologie,
l'energia e lo sviluppo economico sostenibile

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ISPRA and the network or Regional Environmental Protection Agencies (ARPA) all together form the

National System for Environmental Protection – SNPA

Sistema Nazionale per la Protezione dell'Ambiente

recently established by the primary law n. 132 , June 28 2016
come into force: January 14, 2017

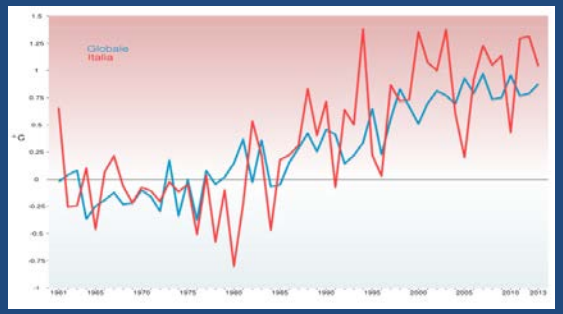
As defined by his duties and activities, with respect to CLIMATE INFORMATION the SNPA represents both a PRODUCER and a STAKEHOLDER

ARPA, more than ISPRA, are on the side of stakeholders, due to their direct link with the regional territory, and the environmental and socio-economic sectors present in their territory.

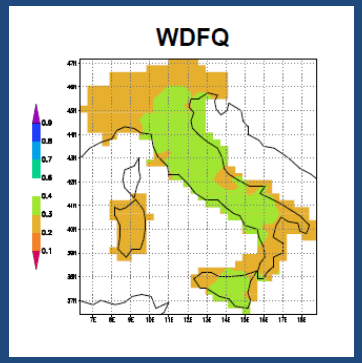
A **CONCEPT PAPER** of the **NCSNI** has been adopted, which contains a description of the objectives and user's needs, and a list of operational products in the fields of:

Climate monitoring

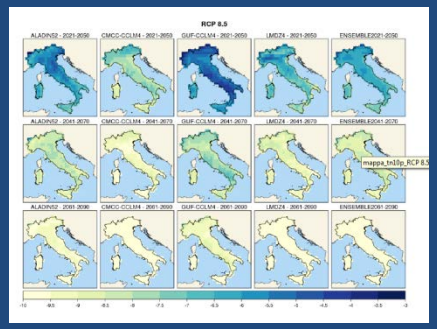
Climate variations and trends estimate



Seasonal forecast



Climate projections



\+ Sectoral Applications in:

Agriculture and Water Resources,
Flood Risk, Energy, Health, etc.

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NCSNI as both a PROVIDER and a PRIMARY USER of CLIMATE SERVICES

WMO OMM

GFCS GLOBAL FRAMEWORK FOR CLIMATE SERVICES

WMO RA VI RCC Network

opernicus Europe's eyes on Earth

Climate Change Service

CORE SERVICES

Products and Services

NCSNI

Sectoral knowledge, Stakeholders

National level

DOWNSTREAM SERVICES

Regional, Local level

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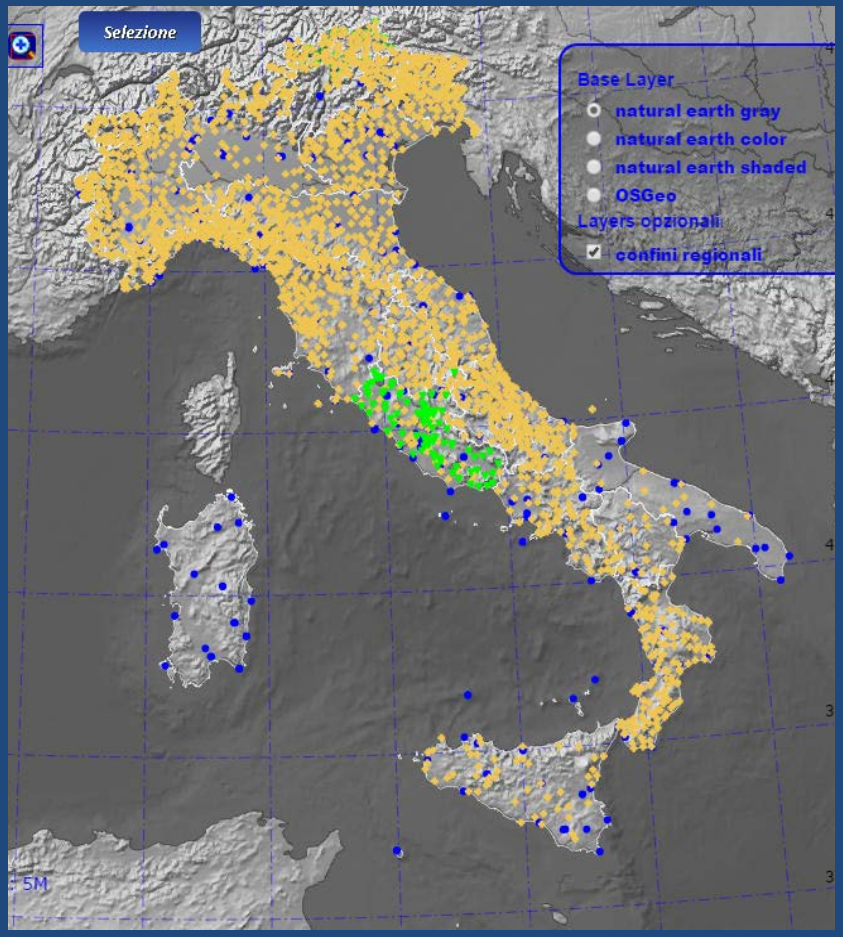
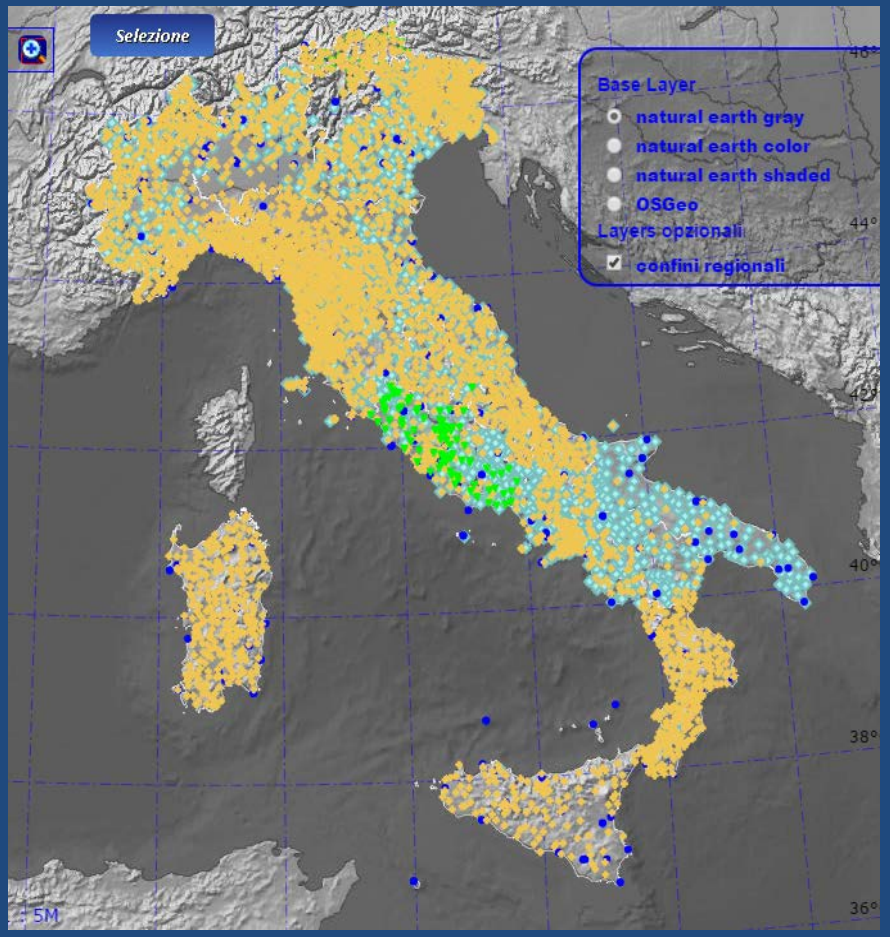
Climate observations and time series (quality colntrolled)

Daily **TEMPERATURE** 1981 -2010
stations n.: >1000



Daily **PRECIPITATION** 1981 -2010
stations n.: > 2500



Climate monitoring products - RA VI Bulletin

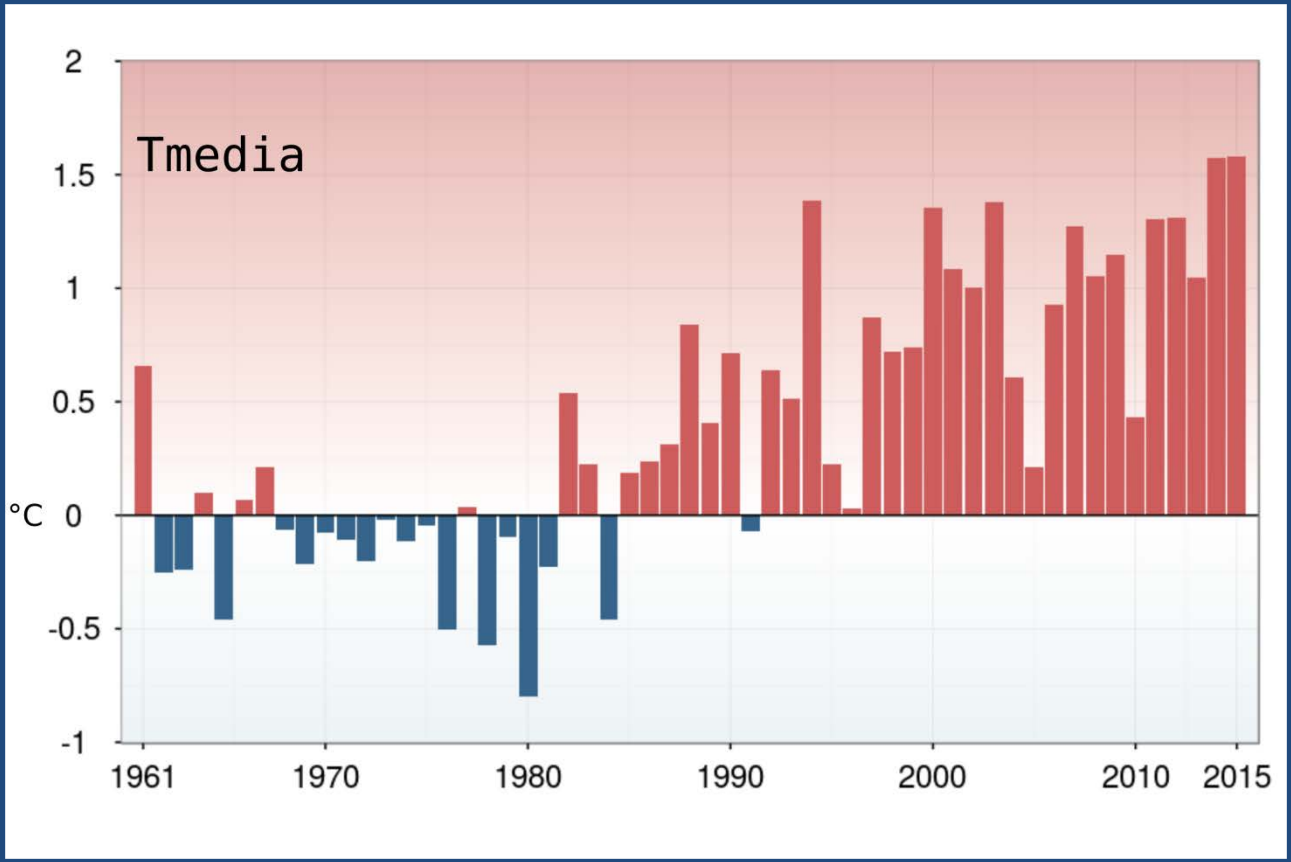


Figure 5.23: Time series of annual temperature anomalies for Italy for the period 1961-2015 (reference period 1961-1990; diagram as provided by ISPRA)

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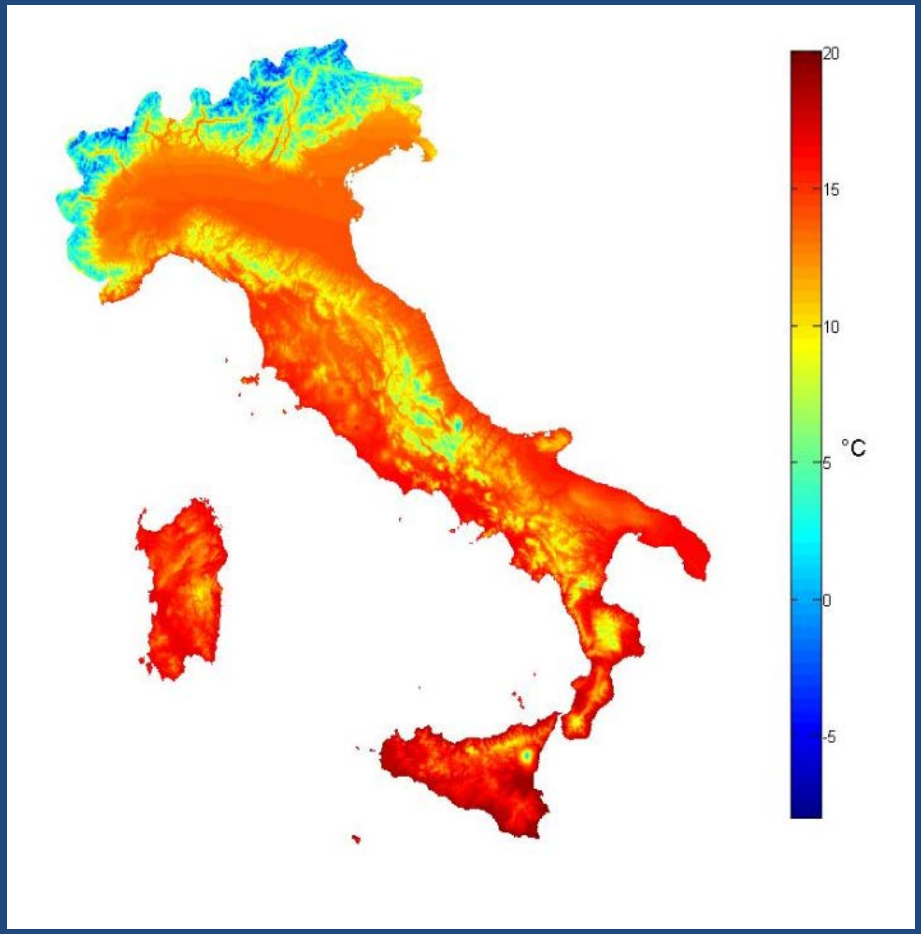
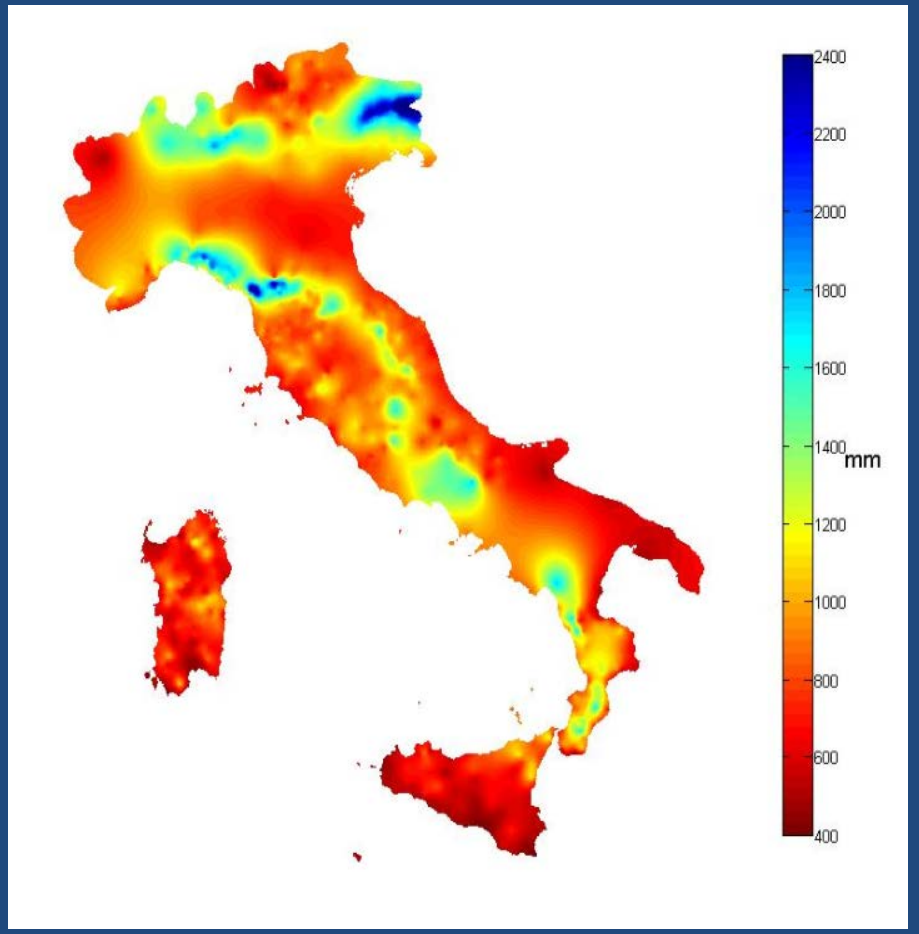
Climate normals

Nat.l and regional networks – high resolution

Mean TEMPERATURE 1961-1990

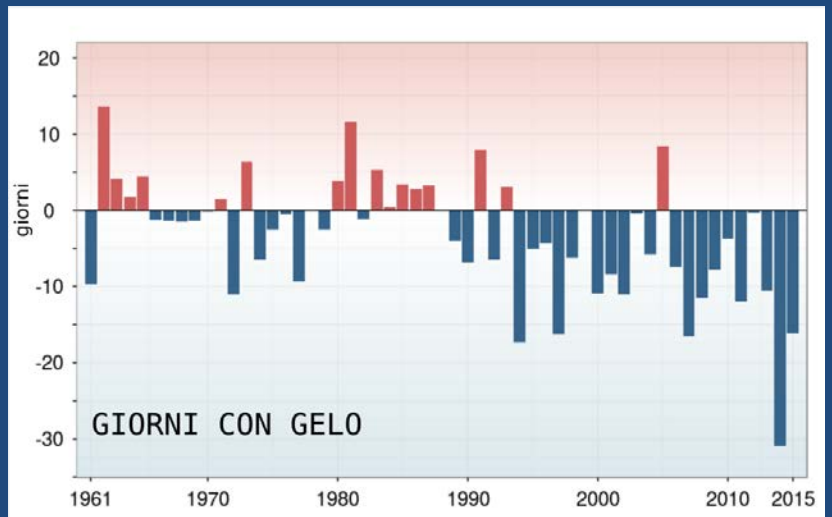


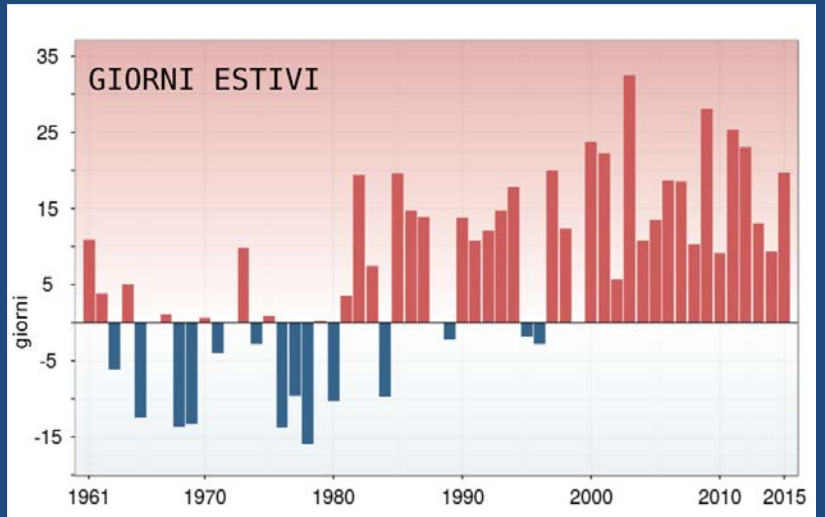
PRECIPITATION 1961-1990

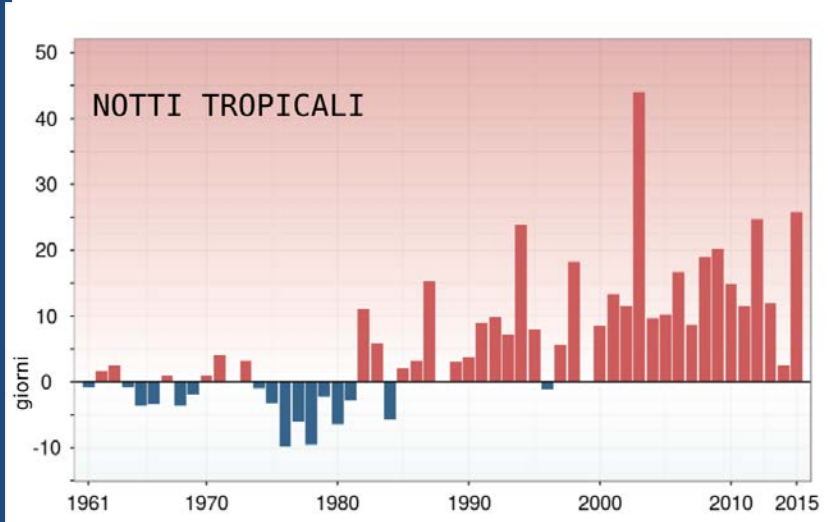


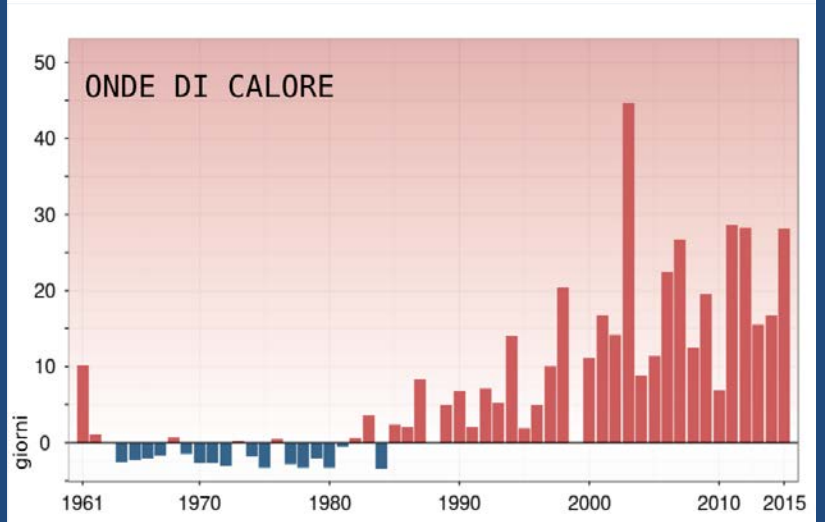
Current use of climatological information based on observations: Examples

Time series of anomalies of temperature EXTREMES indices (**WMO-CCI**)





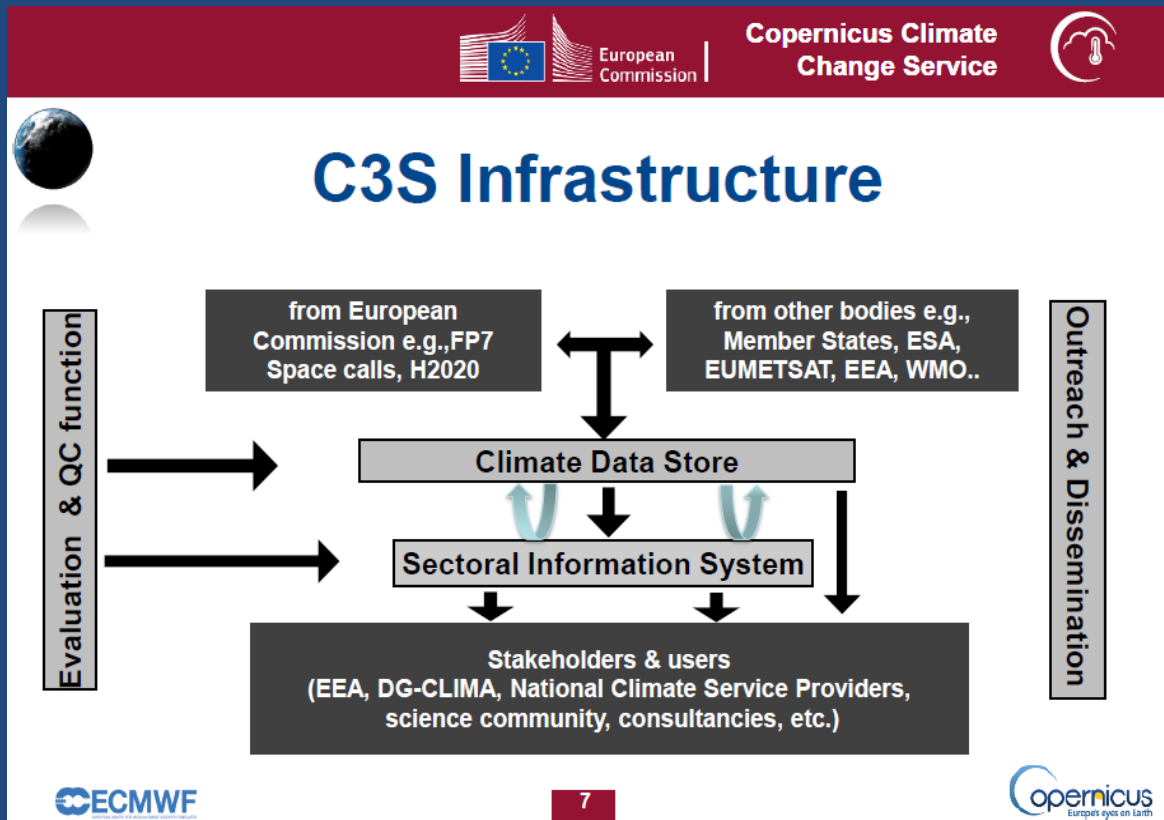




REQUIREMENTS

The main requirement from the NCSNI as COPERNICUS C3S primamary USER is that C3S delivers CORE services and products which are suitable, easily usable and applicable to develop and deliver DOWNSTREAM Services to be used by national and regional/local stakeholders

This requirement concerns all C3S components (pillars)




Thank you