



The Space Climate Observatory

Supporting EO-based applications for
climate action

The SCO aims to **provide operational tools and studies to help decision-makers to adapt to climate change,** especially at a **local scale**, using satellite-based observation tools together with in-situ data and models.



Transparency
of its actions, of data used and provided



local capacity building



Sharing of knowledge



effective applications
for climate change adaptation

The four pillars of SCO



Addressing the SDGs

An alliance of 36 space agencies and international organisations



Stimulate actions through projects

← to design operational tools for decision-makers →

- Governments
- Local authorities
- Space agencies
- Meteorological agencies
- R&D centres
- Copernicus program
- Private companies
- Computing infrastructures
- Group of Earth Observations
- Etc.

Local implementations



SAC
Gabon

SAC
China

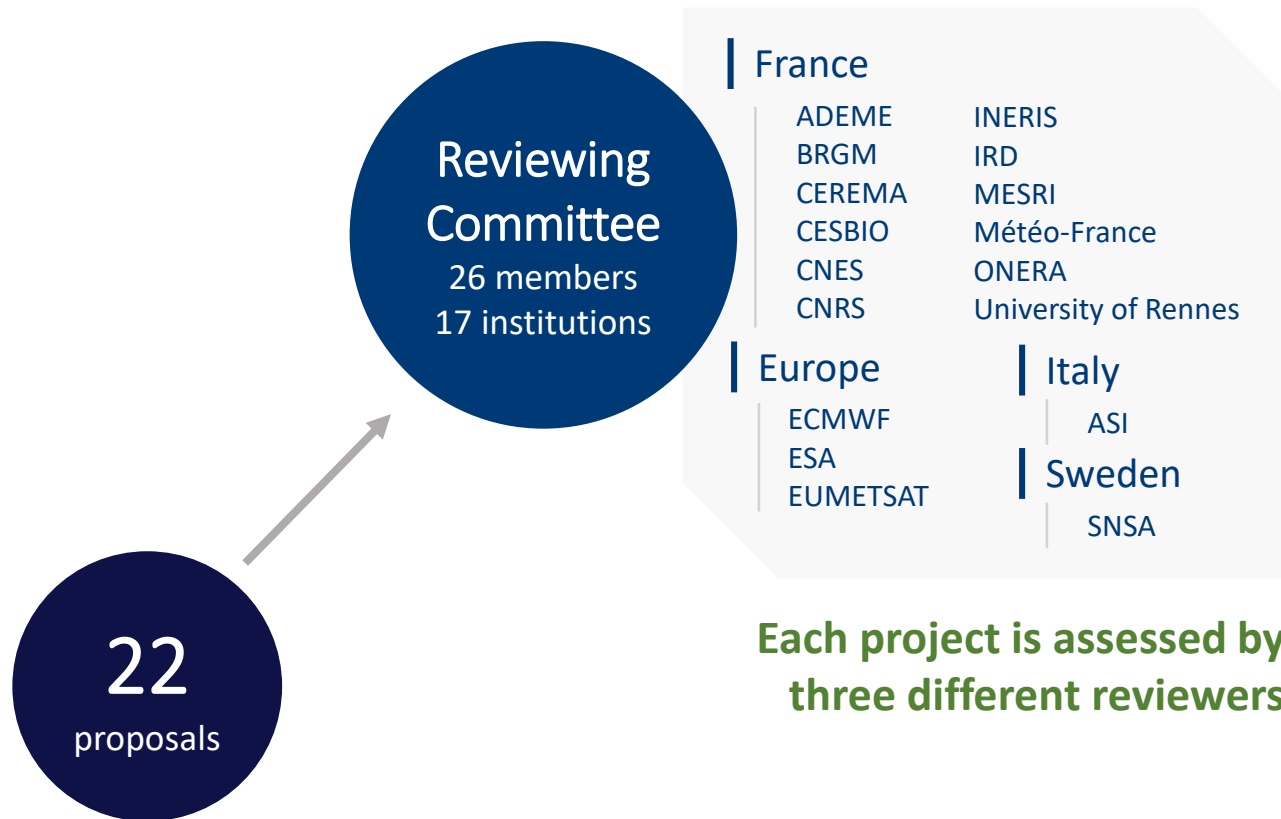
SAC
Mexico

Overview of the SCO since its launch

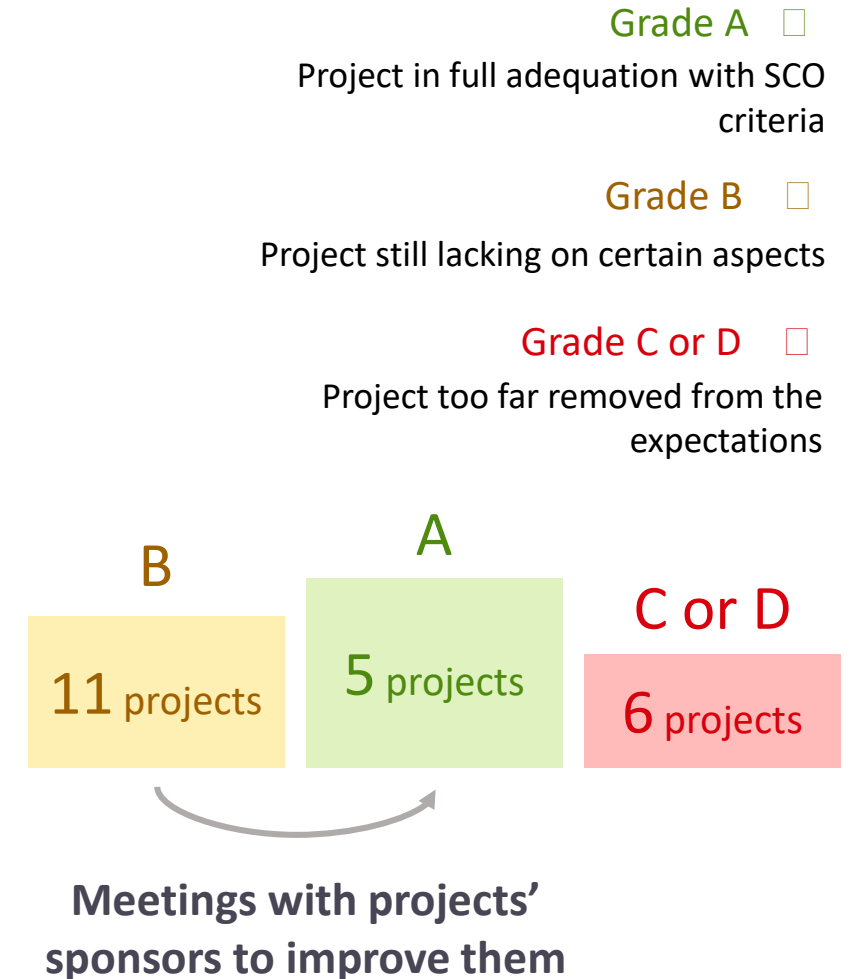


France and Europe call for SCO Projects

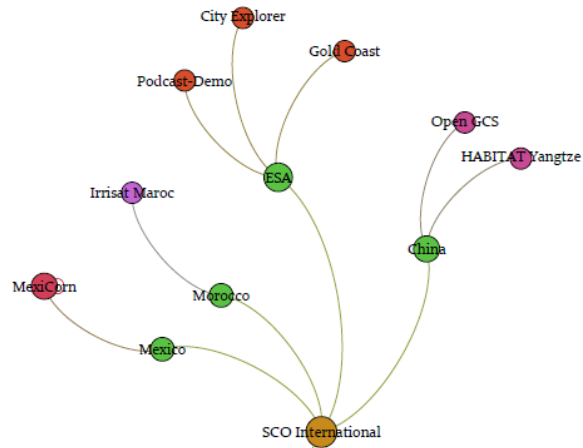
- From Sep. 1st to Nov. 30th, 2021
- All of Europe



Each project is assessed by three different reviewers



Implementation of the SCO



Projects

56 projects on a wide diversity of climate stakes, with a **strong accreditation process**

14 new projects following the 2021 campaign

Governance

36 signatories

8 Steering Committee meetings

Charter for the establishment of the Space for Climate Observatory

5 SCO Accelerated Committees

Communication

Website (300 p/week)

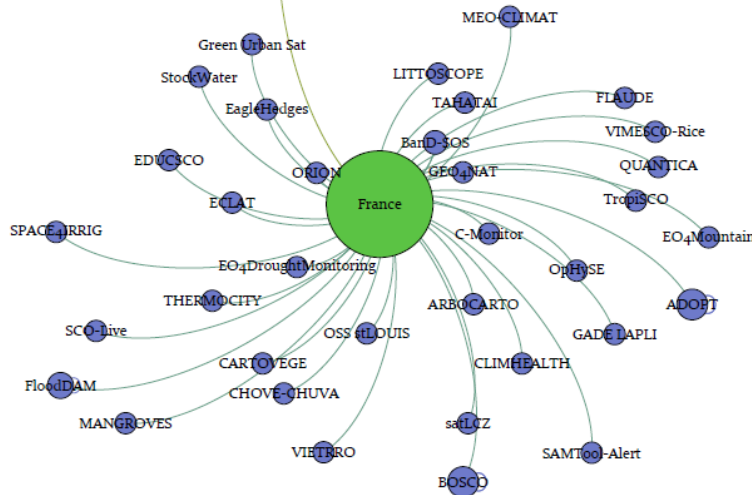
60 news online

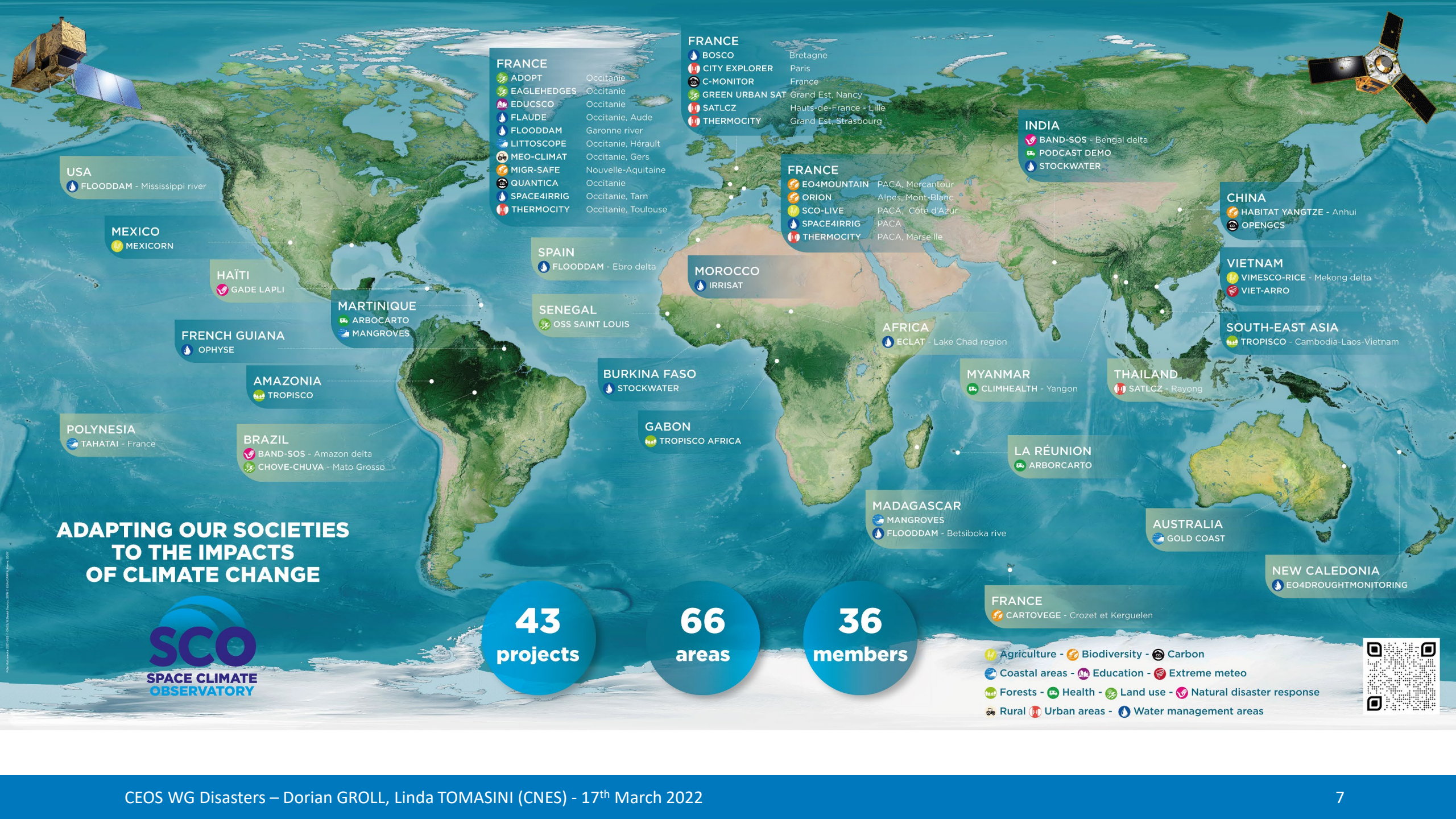
1 monthly newsletter

~20 webinars dedicated to SCO

2022 perspectives

- Emergence of new projects
- Signature of the *Charter on the establishment of the Space for Climate Observatory* in June 2022
- Strengthening of the relations with GEO
- Upcoming events: IAC, COP 27





- FRANCE**
- ADOPT Occitanie
 - EAGLEHEDGES Occitanie
 - EDUCSCO Occitanie
 - FLAUDE Occitanie, Aude
 - FLOODDAM Garonne river
 - LITTOSCOPE Occitanie, Hérault
 - MEO-CLIMAT Occitanie, Gers
 - MIGR-SAFE Nouvelle-Aquitaine
 - QUANTICA Occitanie
 - SPACE4IRRIG Occitanie, Tarn
 - THERMOCITY Occitanie, Toulouse

- FRANCE**
- BOSCO Bretagne
 - CITY EXPLORER Paris
 - C-MONITOR France
 - GREEN URBAN SAT Grand Est, Nancy
 - SATLCZ Hauts-de-France - Lille
 - THERMOCITY Grand Est, Strasbourg

- FRANCE**
- EO4MOUNTAIN PACA, Mercantour
 - ORION Alpes, Mont-Blanc
 - SCO-LIVE PACA, Côte d'Azur
 - SPACE4IRRIG PACA
 - THERMOCITY PACA, Marseille

- INDIA**
- BAND-SOS - Bengal delta
 - PODCAST DEMO
 - STOCKWATER

- CHINA**
- HABITAT YANGTZE - Anhui
 - OPENGCS

- VIETNAM**
- VIMESCO-RICE - Mekong delta
 - VIET-ARRO

- SOUTH-EAST ASIA**
- TROPISCO - Cambodia-Laos-Vietnam

- USA**
- FLOODDAM - Mississippi river

- MEXICO**
- MEXICORN

- HAÏTI**
- GADE LAPLI

- MARTINIQUE**
- ARBOCARTO
 - MANGROVES

- FRENCH GUIANA**
- OPHYSE

- AMAZONIA**
- TROPISCO

- POLYNESIA**
- TAHATAI - France

- BRAZIL**
- BAND-SOS - Amazon delta
 - CHOVE-CHUVA - Mato Grosso

- SPAIN**
- FLOODDAM - Ebro delta

- MOROCCO**
- IRRISAT

- SENEGAL**
- OSS SAINT LOUIS

- BURKINA FASO**
- STOCKWATER

- GABON**
- TROPISCO AFRICA

- AFRICA**
- ECLAT - Lake Chad region

- MYANMAR**
- CLIMHEALTH - Yangon

- THAILAND**
- SATLCZ - Rayong

- LA RÉUNION**
- ARBOCARTO

- MADAGASCAR**
- MANGROVES
 - FLOODDAM - Betsiboka rive

- AUSTRALIA**
- GOLD COAST

- NEW CALEDONIA**
- EO4DROUGHTMONITORING

ADAPTING OUR SOCIETIES TO THE IMPACTS OF CLIMATE CHANGE



43
projects

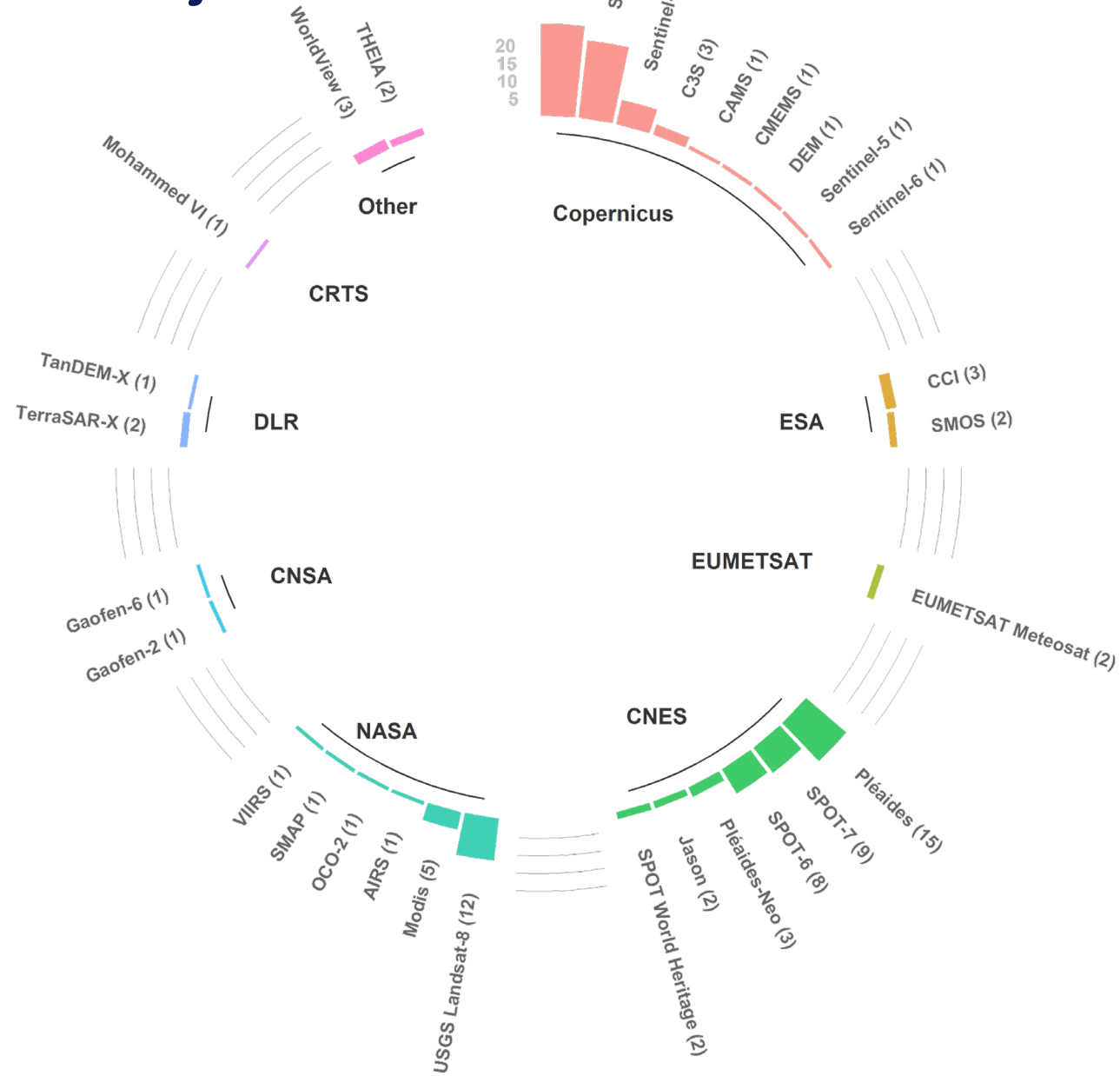
66
areas

36
members

- FRANCE**
- CARTOVEGE - Crozet et Kerguelen
- Agriculture - Biodiversity - Carbon
 - Coastal areas - Education - Extreme meteo
 - Forests - Health - Land use - Natural disaster response
 - Rural - Urban areas - Water management areas



Satellite data in SCO Projects



An overview of SCO France



36 accredited projects



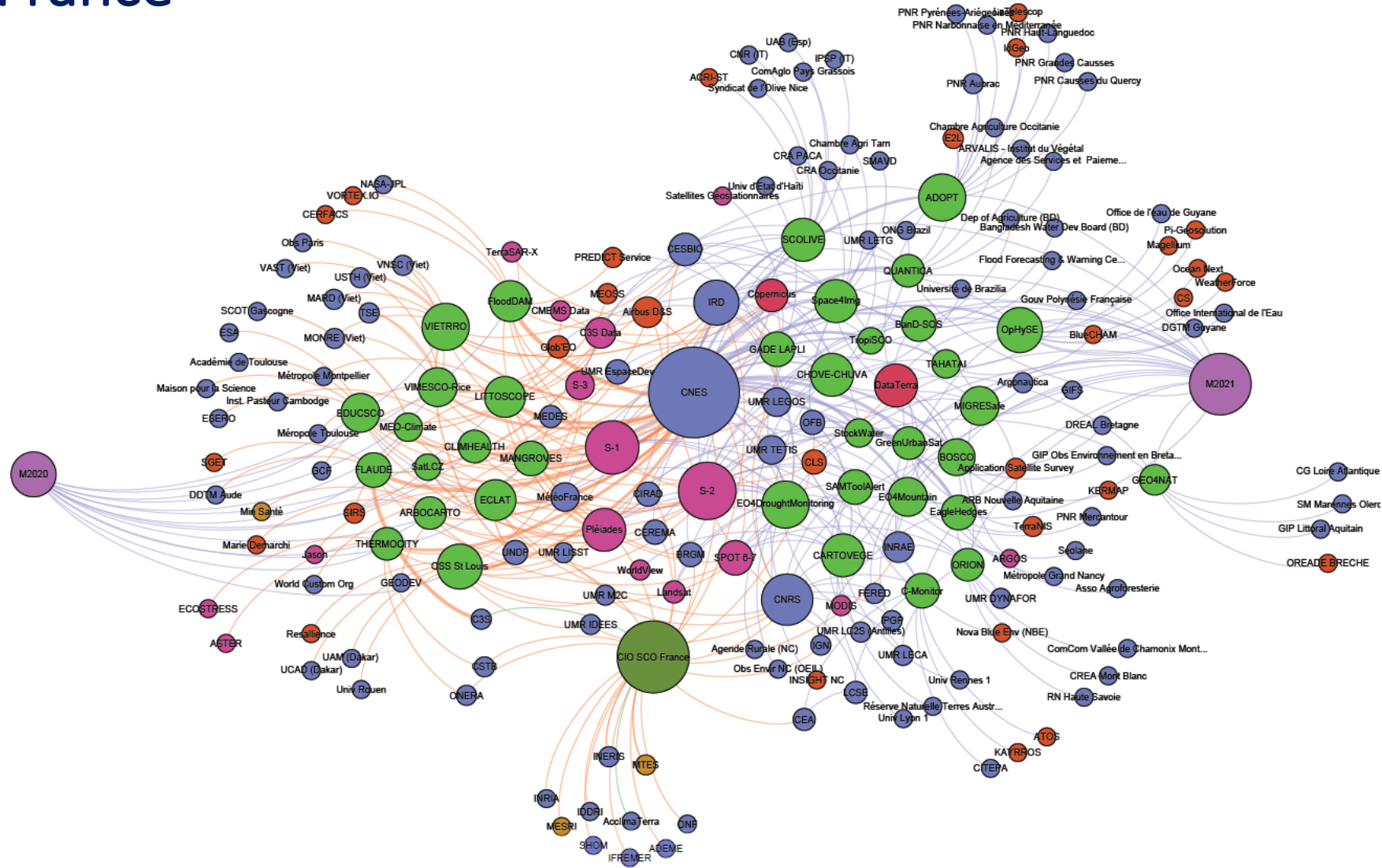
110 entities



30 private companies

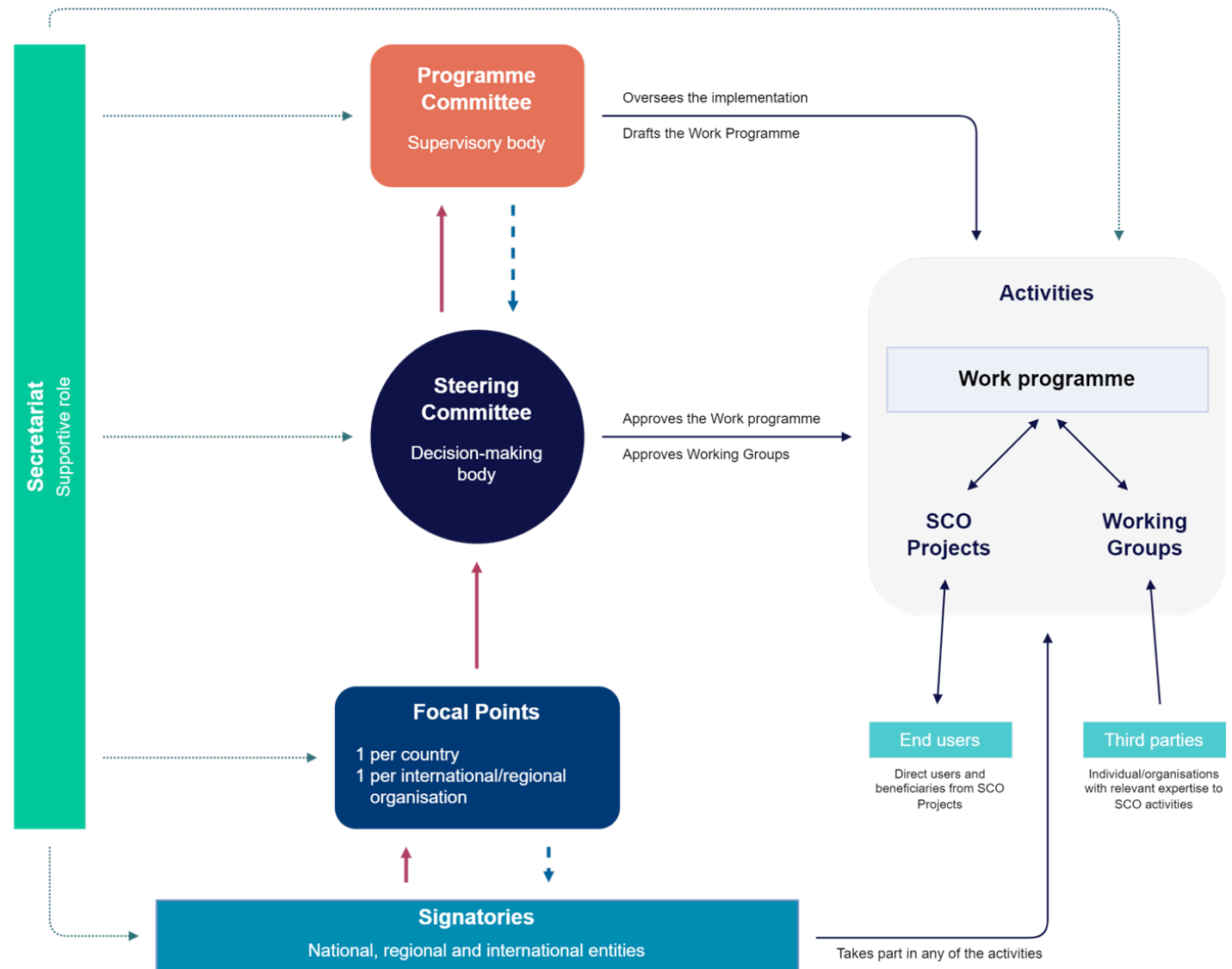


~250 people



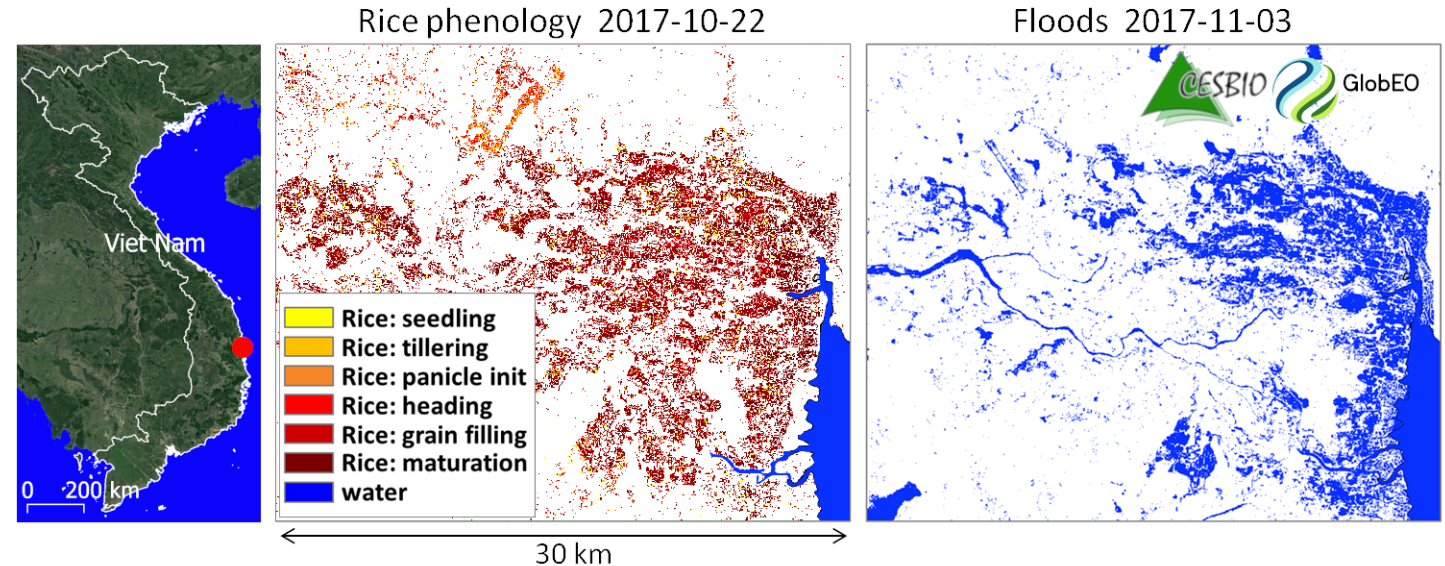
The Charter on the establishment of the Space for Climate Observatory (SCO)

- Long-standing drafting process involving all members and under coordination of UNOOSA
- Formalising and clarifying the objectives, activities and functioning of the SCO
- Creating new opportunities for cooperation (Working Groups, Work Programme, etc.)
- Developing a more multilateral and decentralised governance



VietARRO _ Vietnam Agriculture Resilient Recovery Observatory

- Triggered in the framework of SCO (**Typhoon Damrey**, 2017)
- Managed by CNES and VAST/VNSC with the support of Athena Global
- **Target user** : Ministry of Agriculture and Rural Development, Vietnam National Disasters Management Agency (MARD/VNDMA)
- Need to assess accurately affected rice extent and yield loss and to monitor agriculture recovery process
- **Products** : Water extent/flood maps (time series, duration), Rice maps, Growth status, Sowing dates,...



Online activity

www.spaceclimateobservatory.org



Newsletter: www.spaceclimateobservatory.org/newsletter

Projects: <https://www.spaceclimateobservatory.org/projects>



SCOlive, a very civic-minded observatory
[Read more](#)



Thermocity entrusts its data to Theia
[Read more](#)



ADOPT: full speed ahead!
[Read more](#)



Participate in the 4th Quarterly Meeting of the SCO France
[Read more](#)



8th SCO International Steering Committee
[Read more](#)



Direction Guyana with OpHySE
[Read more](#)



Gade Lapi: top start in Haiti
[Read more](#)



OSS Saint Louis takes stock in 2021
[Read more](#)



6e SCO France meeting: the rails are laid
[Read more](#)



One to one with ADEME
[Read more](#)



European data at the heart of SCO projects
[Read more](#)



Success of the 1st Congress of the SCO France
[Read more](#)