



Atmosphere Monitoring

SEEDS and CAMS User Uptake

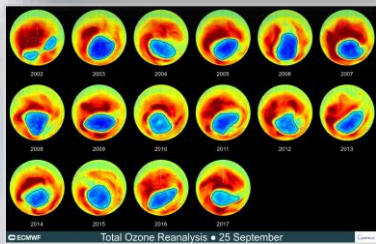
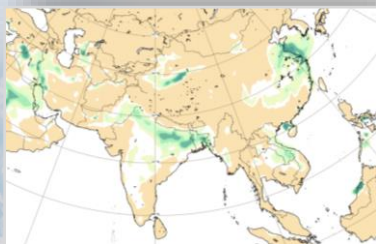
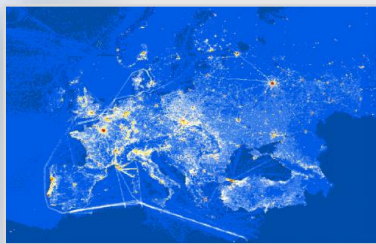
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CAMS SCOPE

Atmosphere
Monitoring



CAMS provides open & free information products based on Earth Observation about:

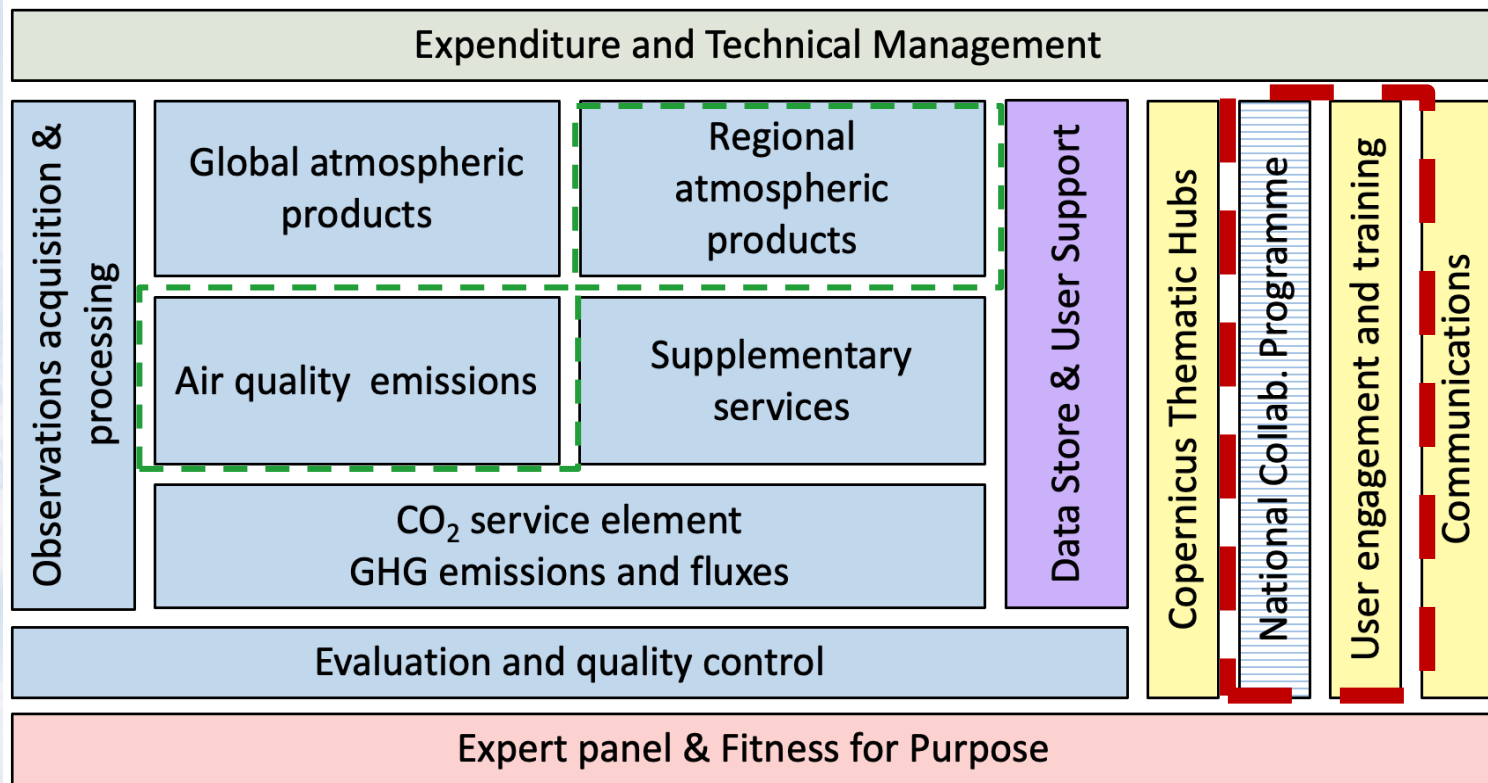
- past, current and near-future (forecasts) global atmospheric composition;
- the ozone layer;
- European air quality;
- emissions and surface fluxes of key pollutants and greenhouse gases;
- solar radiation;
- climate radiative forcing.

SEEDS

<http://atmosphere.copernicus.eu>
<http://ads.atmosphere.copernicus.eu>



CAMS architecture



SEEDS

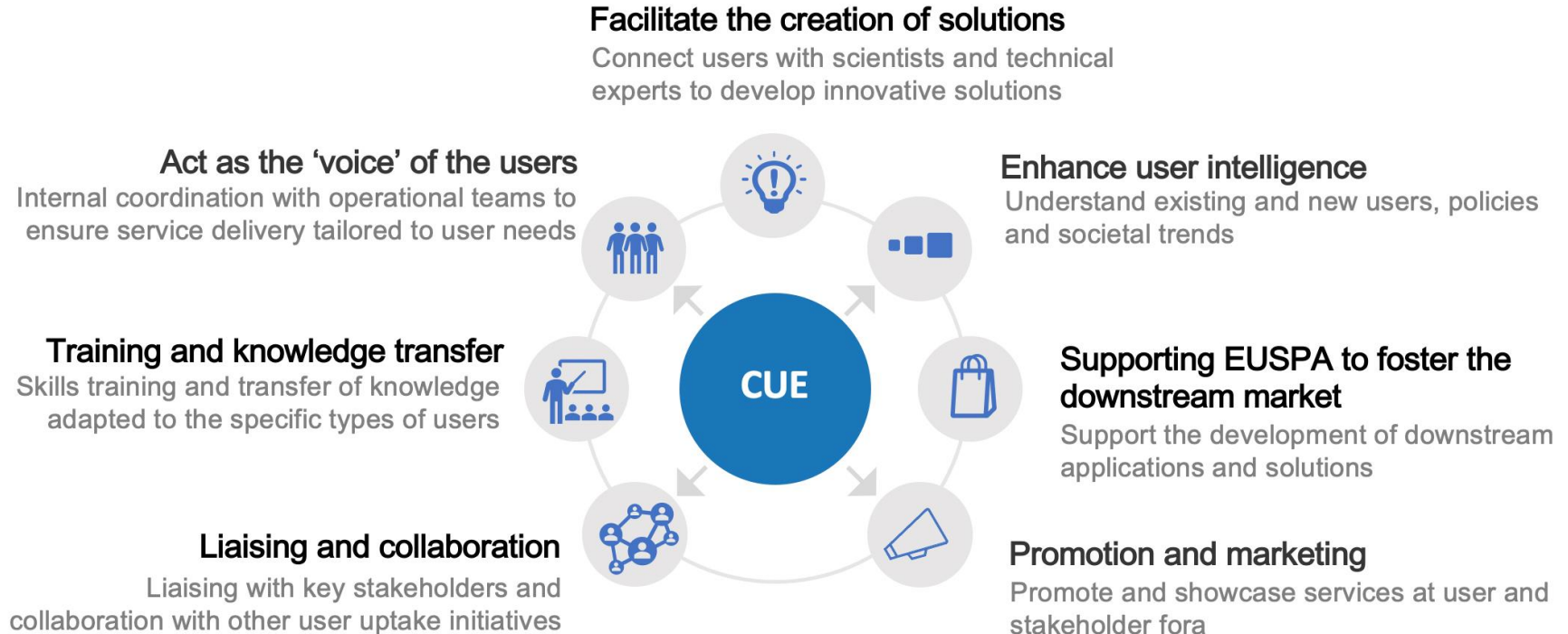


Atmosphere
Monitoring

CAMS & C3S joint User Engagement at ECMWF

Closely engage with EU institutions and bodies and the European national and regional public authorities to serve data and application needs

Support activities to boost the uptake by the academic, public and private sector as part of the Copernicus downstream sector as well as by the UN agencies





Atmosphere
Monitoring

The NCP is to support the users improving the uptake of CAMS products and promoting a joint work between CAMS and MSs

2-way process (1 project for each MS)

CAMS provides:

- products that are directly relevant for a number of European and international policies, where Member States have mandate and responsibility:
 - National Emissions Ceiling and attainment of air quality objectives (limit and target values);
 - Paris Agreement and Intended Nationally Determined Contributions;
 - air quality monitoring strategy (measurement and modelling) and analysis of main drivers of air pollution episodes, including transboundary and natural contributions;
- support & expertise
- information to the general public



MS with its own institutional administration will:

- Uptake CAMS products for its national and regional mandates
- Assess the quality of CAMS products over their national/regional domain (user feedback)
- Develop national module(s) *fully integrated* into the CAMS service
- Improve the communication with local audience (newspaper, media, ...)



Products vs Modules for “a la carte” approach

CAMS products

1. Regional (Europe) products
2. Global products (troposphere and stratosphere)
3. Supplementary products
4. Emissions datasets from inventories
5. Emissions datasets based on satellite detection
6. CO₂ emissions service element

Modules (*proposal*)

- a. *Reporting Module*
- b. *Direct use of CAMS products Module*
- c. *Air quality downscaling Module*
- d. *Emissions Module*
- e. *Support monitoring to in-situ network Module*
- f. *Communication Module*
- g. *Training Module*
- h. *...others??*



- Development of **user oriented turn-key solutions**
- Collection and feedback on specific **user requirements**
- **Importance of user stories and testimonials** to illustrate the actual use of the development of data products and services by end users
- **Support on user engagement activities** presenting your results at user workshops and meetings

**Let us know what you are doing
&
be part of the wider CAMS context!**