

Cyprus Information Day – 7th October 2024



The Cyprus Institute

Activities and lessons learnt

True colour image
acquired by Copernicus Sentinel-2
July 16, 2024



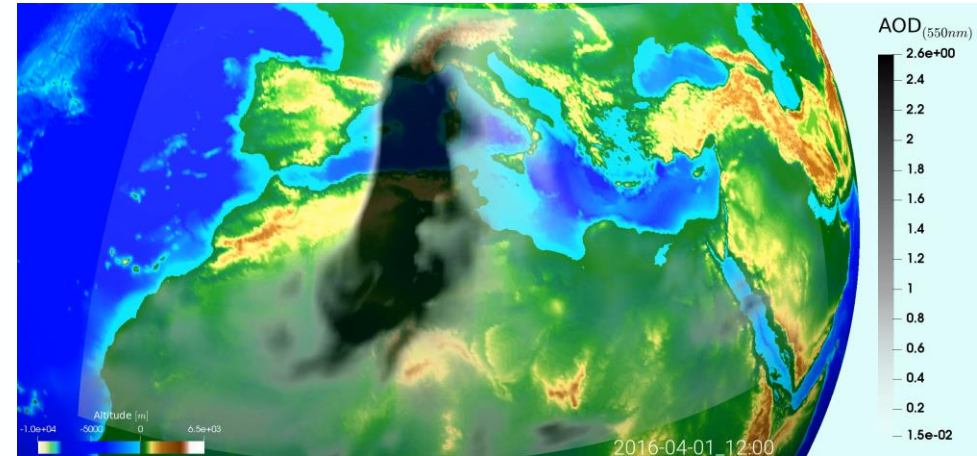
PROGRAMME OF
THE EUROPEAN UNION



Name: *The Cyprus Institute*

Creation date: *27/10/2005*

Number of employees: *271*

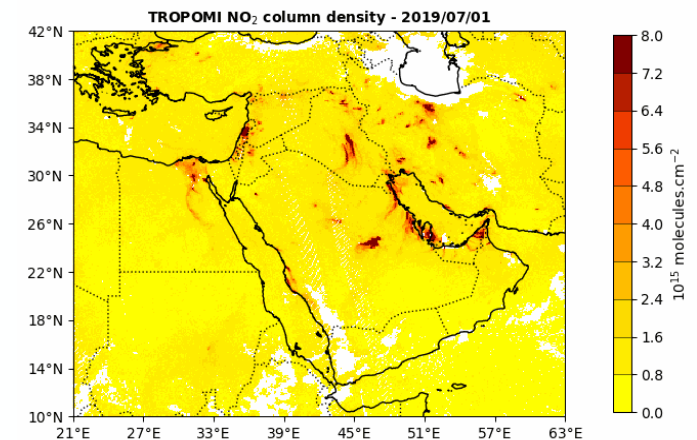


Core competences: *Earth observation applications, climate and atmosphere research (EO for atmospheric composition (S5P), Lidar and UAV monitoring, Meteorological and air pollution modelling, desert dust, cal/val activities).*

% Space Revenue: *Total 16M Euro, 200k Space (1.23%).*

Key customers: *EU, ESA.*

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Space project(s) with ESA overview



Highlighted Space Project: Modeling of Emissions, Trends and Air quality, using Satellite measurements META-SAT.

Purpose/ Goal of the project: Use satellite atmospheric composition information to verify and monitor emissions of pollutants from anthropogenic activities, air quality over the region and long-term trends.

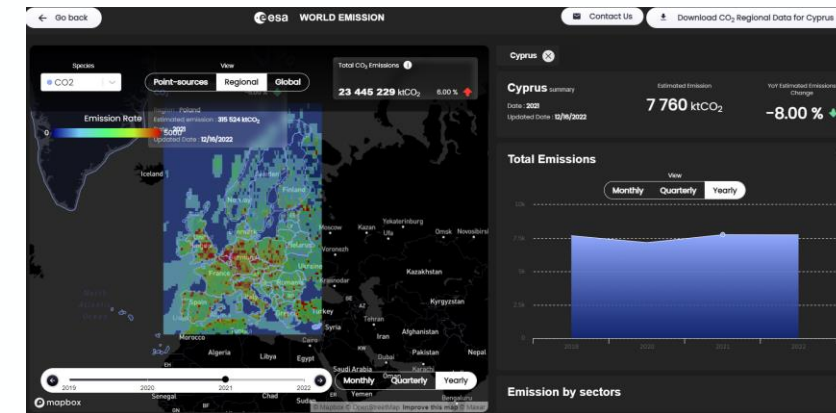
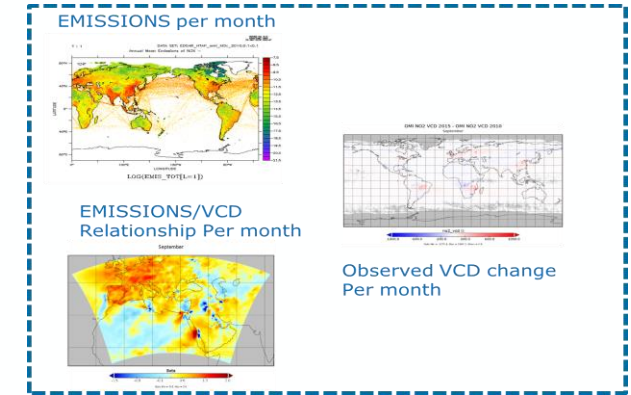
Keywords and key technologies: emission inventories, TROPOMI, atmospheric composition, air quality directive, reporting UNFCCC, SCPs.

Target customers: Public/governmental entities and private corporates that are monitored for their emissions (GHG and APs).

Key successes to date: Highlighted discrepancies in what companies/ countries report vs what is observed from space – policy implications.

Key difficulties to date: Digitalize the process, reduce uncertainties.

Other Space projects: NEWTON, World Emissions.



Writing proposals:

1. Well-described idea and technological steps to achieve its materialization.
2. No matter the timeline, have a strategy in mind for utilization and commercialisation.
3. Align requested funding with the program description and work packages.

Running ESA Activities:

1. Including an industry partner is advantageous: Prefer CYPRIOT industry/spin-offs.
2. Communication and dissemination activities.
3. Partnership with international players for the scale-up.

Finding and Working with International Partners:

1. In research, identify partners that are interested and participate in projects.
2. Customer/investor (defines the needs and targeted solutions/sustainability and improvement)
3. Bridge the language/definition/terminology gap!

Finding Customers and commercialisation:

1. Leverage European and International Networks.
2. Approach Commercial Spin-offs and Start-ups.
3. Engage in Industry Events and Technology Showcases.

Vision of the future for the company and the product (10yrs from now)

Convert the methodology into an interface tool.

Optimize and harmonize the toolbox.

Showcase use and applicability.

Target public entities for complementary use in reporting obligations.

Find support for benchmarking (endorsement) at EU level.

Key next steps to achieve this:

1. Fine-tune scientific components and develop an online tool.
2. Survey user needs and requirements for the optimization of the toolbox.
3. Case studies of validation exercises in various countries in the region.
4. Perform live demo in relevant meetings/workshops/infodays (national and regional).
5. Network with policy-oriented scientific communities in multiplying exercises (intercomparison exercises) with the aim of endorsement in recommendation and guideline documents.

Sentinel-5P



EARTH-CARE

