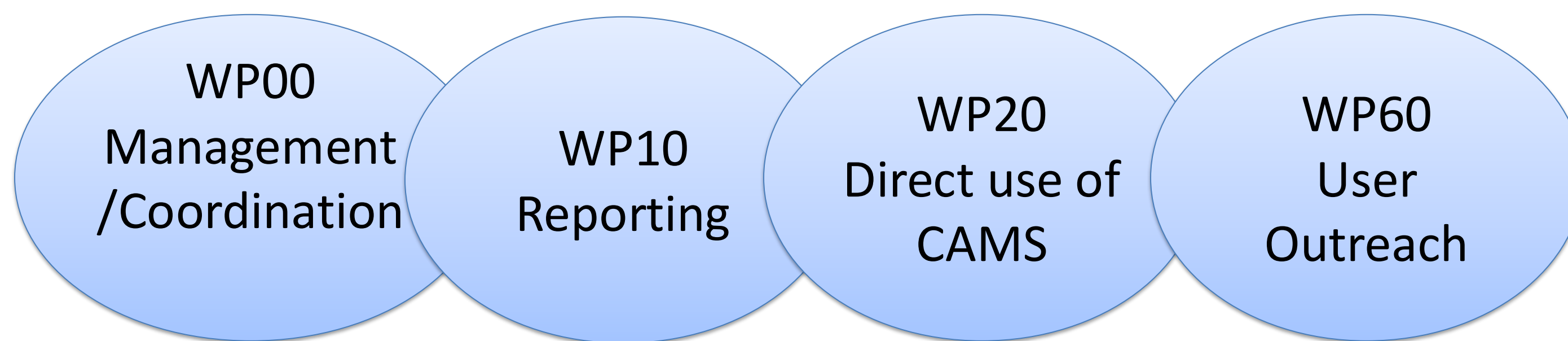


CAMS National Collaboration Programme – Cyprus

Title of Project: “National Integration and Optimization of CAMS Products: A Collaborative Approach for Monitoring”

Contractor and Subcontractors: ERATOSTHENES CoE and SPECTRUM Ltd



Project Duration: 18 months
Start Date: 01/04/2024
End Date: 31/12/2025

CAMS Products:

- CAMS Global Forecast (WP1, WP2)
- CAMS Global Dust Forecasts (WP2)
- CAMS European Air Quality Reanalysis (EAC4) (WP1)
- CAMS Global UV Index Forecast (WP2)

Main Activities:

- **National Integration:** Customized integration of CAMS products into Cyprus' reporting systems in collaboration with government authorities (e.g., Department of Environment).
- **Tool Development:** Design of localized applications using CAMS data to support air quality monitoring and public health (e.g., UV Index, Dust Data Cube).
- **Stakeholder Coordination:** Establishment of a national coordination framework through meetings and QA procedures aligning with ECMWF standards.
- **Outreach and Communication:** Delivery of multilingual content, targeted workshops, and public engagement campaigns to promote CAMS services in Cyprus.

Outcomes: The CAMS UV Index forecast has been successfully integrated into a national platform, delivering multilingual content to schools, health services, and the wider public. The Dust Data Cube supports aviation forecasting during Saharan dust events for use from Department of Meteorology. Authorities such as the Department of Labor Inspection are exploring CAMS-derived datasets for compliance and planning, while CAMS products are increasingly used in early warning systems and public health assessments.

Main take-home message for CAMS (including challenges and opportunities):
Tailoring CAMS to Cyprus works — co-design with users enabled UV, dust, and air quality services to become embedded. **Challenge:** aligning with national standards. **Opportunity:** turning pilots into policy tools via AirData Hub.



Figure 1: : Snapshot from the national stakeholder event “Atmosphere, Health, Environment: The CAMS NCP Services in Cyprus” as part of the CAMS-NCP initiative

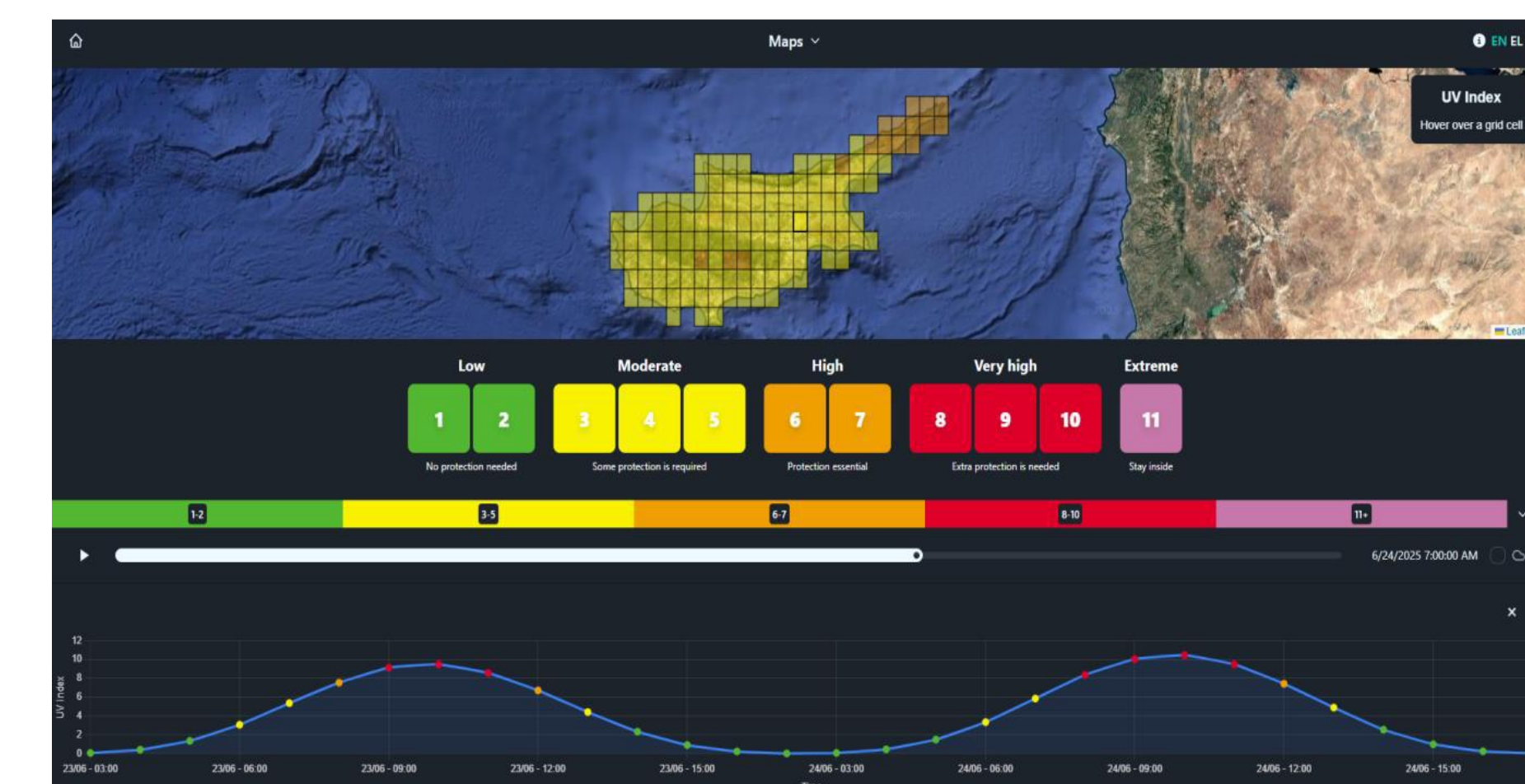


Figure 2: UV Index map over Cyprus, provided by ERATOSTHENES CoE and CAMS, showing spatial distribution and hourly variation of UV intensity levels.

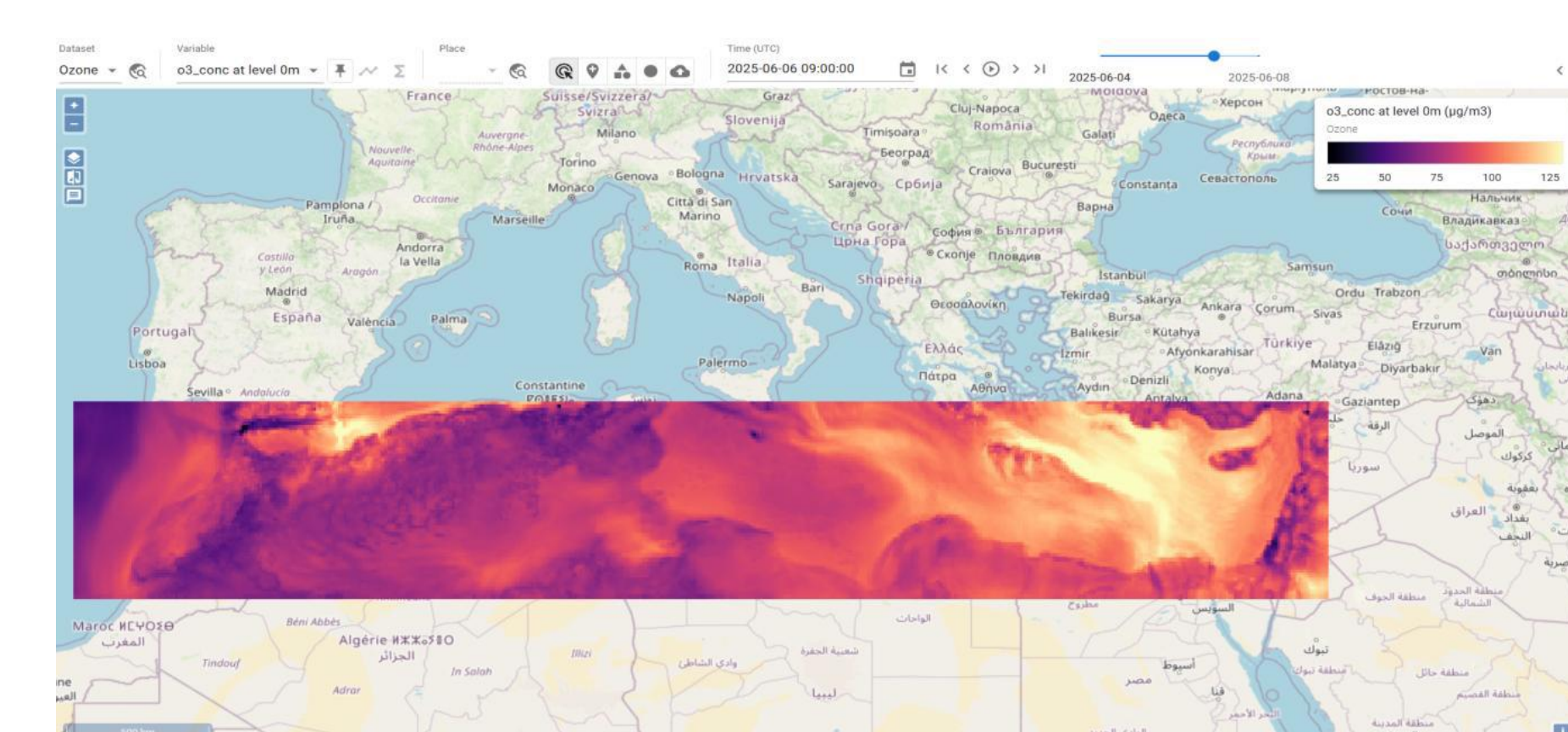


Figure 3: Dust Data Cubes demonstrating the Surface-level ozone concentration ($\mu\text{g}/\text{m}^3$) over the Mediterranean and North Africa on 6 June 2025, visualized using CAMS data.

Communication pathways: Adapting CAMS material into national languages, social media engagement with the public on air-quality matters, press relations, and organizing online and physical events to increase awareness (workshops, campaigns, engaging content, factsheets, videos, etc.)

Testimonial: “The Dust Data Cube developed by Eratosthenes CoE under the CAMS NCP project provides valuable support for aviation meteorology in Cyprus. Its localized, time-resolved insights enhance our capacity to assess dust events and issue timely alerts for flight safety, particularly during high-risk transboundary episodes.” — Officer, Department of Meteorology, Cyprus.

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