



CyCLOPS

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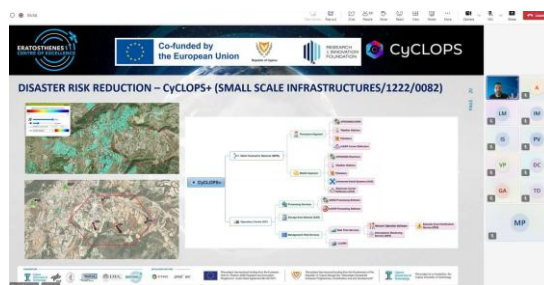
NEWSLETTER ISSUE #2

March 2025– February 2026

Presentation at EXPERT Twinning Project Training Week



On the 16th of March 2025 Dr. Marios Tzouvaras presented online the CyCLOPS+ objectives to a webinar held under the EXPERT Twinning project training week organized by Italian Space Agency. During the presentation, Dr. Tzouvaras had the opportunity to exchange ideas regarding the role of the CyCLOPS infrastructure to European projects such as Horizon, etc.

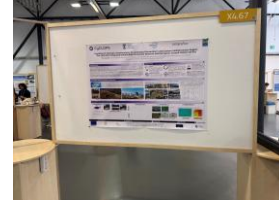
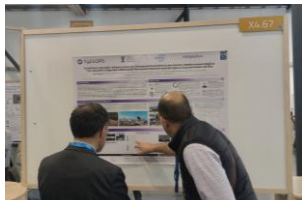


EGU 2025, Vienna, Austria



CyCLOPS+ team participated in the EGU General Assembly 2025, held in Vienna, Austria, one of the world's leading scientific conferences in the field of geosciences, bringing together researchers, practitioners, and decision-makers from across the globe. The delegation included Dr. Chris Danezis and Dr. Kyriaki Fotiou, representing our ongoing work in geohazard monitoring, Earth observation, and strategic geodetic infrastructures in Cyprus.

- **Dr. Chris Danezis** presented a poster entitled "Investing in Strategic Infrastructures for Geohazard Prevention in the Eastern Mediterranean Region: The CyCLOPS Integrated GNSS/InSAR Permanent Network and the Cyprus Ground Motion Service." The poster showcased the strategic role of permanent GNSS and InSAR infrastructures in regional geohazard prevention, with a particular focus on the CyCLOPS integrated monitoring network and the development of the Cyprus Ground Motion Service (CyGMS) as a national-scale tool for ground deformation monitoring.
- **Dr. Kyriaki Fotiou** delivered an oral presentation entitled "Comprehensive Monitoring of the Active and Fast-moving Landslide of Pissouri Village, Cyprus: Integrating SAR, GNSS, Rainfall and Laser Scanner Data." The presentation focused on an integrated, multi-sensor monitoring framework for the active landslide of Pissouri village, combining satellite-based SAR interferometry, in-situ GNSS measurements, rainfall data, and terrestrial laser scanning. The results highlighted the value of data fusion for understanding complex landslide dynamics, improving deformation detection, and supporting early warning and risk mitigation strategies.



Overall, the participation in EGU 2025 strengthened international visibility for Cyprus-based research, fostered scientific exchange with leading institutions, and reinforced the importance of long-term, integrated monitoring infrastructures for geohazard assessment in the Eastern Mediterranean region.



CyCLOPS

SMALL SCALE INFRASTRUCTURES/1222/0082



Participation at European Researchers' Night 2025



CyCLOPS+ team participated in the European Researchers' Night 2025, organised by the Research and Innovation Foundation (RIF), which took place on 26 September 2025. Visitors had the opportunity to meet the research teams at Booths #47 and #48, learn about advanced geospatial and Earth observation technologies, and explore how integrated GNSS and satellite-based monitoring systems contribute to geohazard assessment, ground motion monitoring, and societal resilience. Through interactive discussions and hands-on engagement, CyCLOPS+ raised awareness of the value of scientific research, innovation, and strategic infrastructures, while inspiring young people and the wider public to engage with science in an accessible and meaningful way.



Presentation at GIS Day 2025



CyCLOPS+ participated in GIS Day 2025, contributing to the promotion of Geographic Information Systems (GIS) and their role in supporting evidence-based decision-making and geohazard monitoring. As part of the event, the CyCLOPS+ team presented recent work related to the site determination of monitoring locations, which was completed using a multi-criteria analysis within a GIS environment. The analysis integrated multiple spatial datasets and thematic layers, demonstrating how GIS-based methodologies can support objective and transparent decision-making processes in the design of geodetic and Earth observation infrastructures. The presentation highlighted the importance of GIS as a core tool

for combining environmental, geological, and infrastructural information, enabling the optimal selection of sites for monitoring ground motion and geohazards. Through this contribution, CyCLOPS+ showcased the practical application of GIS techniques in real-world research and infrastructure planning scenarios. Participation in GIS Day 2025 provided an excellent opportunity to engage with students, professionals, and the wider community, raising awareness of the value of GIS technologies and their integration with GNSS, InSAR, and multi-sensor monitoring approaches.



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Presentation at Technical Workshop organized by CARSE



CyCLOPS+ participated in the technical workshop Topography Without Limits: Modern Equipment and Digital Solutions, organised by the Association of Rural and Surveying Engineers of Cyprus. The event took place on 7 February 2026 at the Cosmopolis Multi-venue in Nicosia and brought together professionals, academics, technology providers, and institutional stakeholders from the geospatial sector. As part of the programme, Dr. Christodoulos Danezis delivered a presentation entitled "The Strategic Research Infrastructure CyCLOPS", highlighting the role of long-term geodetic and Earth observation infrastructures in geohazard monitoring and prevention.

The presentation introduced the CyCLOPS integrated GNSS/InSAR permanent network, designed to support systematic monitoring of ground deformation in Cyprus. Particular emphasis was placed on the Cyprus Ground Motion Service (CyGMS), a national-scale service under development that aims to provide reliable, high-quality ground motion products based on satellite SAR data, calibrated and validated through in-situ GNSS observations. CyCLOPS+'s participation in the workshop underscored the importance of bridging research infrastructures with professional practice, demonstrating how advanced geospatial technologies can support surveyors, engineers, and public authorities in risk assessment, infrastructure monitoring, and informed decision-making. The event provided an excellent platform for knowledge exchange and dialogue, reinforcing the value of collaboration between the professional community, academia, and research infrastructures in shaping the future of modern topography and geospatial services in Cyprus.





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SMALL SCALE INFRASTRUCTURES/1222/0082



Regional Stakeholder Seminar I

As part of its industrial and end-user targeted dissemination activities under Work Package 2 (WP2), the CyCLOPS+ project implemented its first Regional Stakeholder Seminar on the 20th of November 2025, engaging stakeholders beyond the research community.

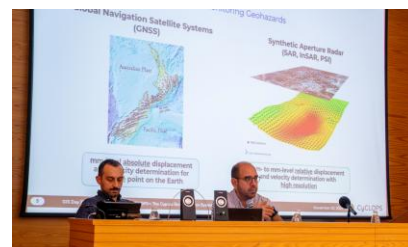
The event brought together professionals, regional stakeholders, competent authorities, and end-users, providing a platform to present the objectives, scope, and strategic direction of the CyCLOPS+ project. The seminar aimed to promote awareness of the project's contribution to ground motion monitoring, geohazard assessment, and evidence-based decision-making in Cyprus through the enhancement of existing national infrastructures and services.

During the seminar, the CyCLOPS+ team presented the overall vision of the project, which focuses on augmenting and upgrading the existing CyCLOPS GNSS and InSAR monitoring network and on the development of the Cyprus Ground Motion Service (CyGMS). CyGMS is designed as a national-scale service that will provide reliable, consistent, and high-quality ground motion products, supporting authorities, professionals, and stakeholders in geohazard monitoring, infrastructure management, spatial planning, and risk mitigation.

Emphasis was placed on the added value of CyCLOPS+, which builds upon the foundations of the established CyCLOPS infrastructure by expanding monitoring capabilities, improving data integration, and enhancing the accessibility and usability of ground motion information. Through the systematic combination of satellite-based Earth Observation data and in-situ measurements, CyCLOPS+ aims to strengthen Cyprus' capacity for long-term ground deformation monitoring and resilience to natural hazards.

The seminar also highlighted the collaborative nature of the CyCLOPS+ consortium, which brings together key academic, research, and industrial partners, including the Cyprus University of Technology, the Eratosthenes Centre of Excellence, and industry stakeholders. This partnership framework supports the effective transfer of scientific knowledge to end-users and ensures that the developed services respond to real operational and societal needs.

Through presentations and discussions, participants were encouraged to engage in knowledge exchange and dialogue, sharing perspectives and identifying opportunities for future collaboration. This interaction is a core element of the CyCLOPS+ dissemination and exploitation strategy, supporting the alignment of project outcomes with stakeholder requirements and facilitating the long-term sustainability of the Cyprus Ground Motion Service.





CyCLOPS

SMALL SCALE INFRASTRUCTURES/1222/0082



Regional Stakeholder Seminar II



The second Regional Stakeholder Seminar was organized as a targeted closed stakeholder session, following the official presentation of CyCLOPS+ at the technical workshop of the Cyprus Association of Rural and Surveying Engineers (CARSE).

The dissemination activity was divided into two main parts:

1. Open Technical Presentation (CARSE Workshop)

CyCLOPS+ scientific and technological objectives were presented to a broader technical audience during the CARSE technical workshop. The presentation focused on the integration of GNSS and InSAR technologies, as well as the Cyprus Ground Motion Service (CyGMS) platform.

2. Closed Stakeholder Session

Immediately following the workshop presentation, a dedicated closed session was conducted with selected stakeholders and professionals. This session aimed to: (a) Facilitate in-depth technical discussion regarding the CyCLOPS infrastructure and its use by the surveyor engineers and (b) address implementation-related questions including the update of the national datum. Finally, targeted feedback was collected from the end-users.





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SMALL SCALE INFRASTRUCTURES/1222/0082



CyGOS – The Cyprus Geohazards Observatory Supersite



The **Cyprus Geohazard Observatory Supersite (CyGOS)** has been officially approved as a Permanent Geohazard Supersite under the Group on Earth Observations (GEO) – Geohazard Supersites and Natural Laboratories (GEOGSLN) initiative, with support from CEOS (Committee on Earth Observation Satellites).

Coordinated by Cyprus University of Technology (CUT), CyGOS places Cyprus among only a few Supersites worldwide, providing privileged access to high-resolution satellite data (SAR & EO) from major space agencies.

The Supersite is implemented in collaboration with:

- Cyprus Geological Survey Department (GSD)
- German Aerospace Center (DLR)
- National Observatory of Athens (NOA)
- Aristotle University of Thessaloniki (AUTH)



This achievement builds directly on the CyCLOPS strategic research infrastructure, highlighting our long-term investment in state-of-the-art space-based techniques and specifically our permanent GNSS stations and InSAR corner reflector arrays.

A major step positioning Cyprus as an active and credible contributor in the global Space and Earth Observation ecosystem!



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PUBLICATIONS



1. Fotiou, K., Kakoullis, D., Kotsakis, C., Hatzinikos, M., and Danezis, C., "Comprehensive Monitoring of the Active and Fast-moving Landslide of Pissouri village, Cyprus: Integrating SAR, GNSS, Rainfall and Laser Scanner Data", Art. no. EGU25-9566, 2025. doi:10.5194/egusphere-egu25-9566.
2. Danezis, C., "Investing in Strategic Infrastructures for Geohazard Prevention in the Eastern Mediterranean Region: The CyCLOPS Integrated GNSS/InSAR Permanent Network and the Cyprus Ground Motion Service", Art. no. EGU25-6796, 2025. doi:10.5194/egusphere-egu25-6796.



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