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EXCELSIOR Project

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Project acronym:	EXCELSIOR
Work Package:	WP6 Knowledge transfer and capacity building
Deliverable:	D6.10 Report on visiting experts Seminars and trainings (update 1)
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<p>Project acronym:</p>	<p>EXCELSIOR</p>	
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Document Sign-off

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APPROVED	AI Partners			

Work Package 6: Knowledge transfer and capacity building

D6.6 Report on ECoE personnel mobility and secondments

Sections to be protected	Description	Owner	Access Rights	
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Executive Summary

Deliverable D6.10: Report on visiting experts Seminars and trainings (update 1) focuses on the implementation of technical short courses aimed at keeping ERATOSTHENES CoE researchers and administration staff up to date with state-of-the-art equipment, new software, models, EO data assimilation techniques, advanced algorithms, and machine learning theory and practice. Throughout RP4 (M49–M66), several expert-led talks and training sessions have been implemented to enhance knowledge exchange and professional development. Additionally, this report outlines the implemented talks by invited experts, seminars, workshops, summer school activities and trainings during RP4 and presents the plan for knowledge-transfer and training activities in RP5 (M67–M84), ensuring the continuous upskilling of ERATOSTHENES CoE researchers and strengthening collaborations with leading experts and institutions.



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Abbreviations

CUT	Cyprus University of Technology
ECOE	Eratosthenes Centre of Excellence
EO	Earth Observation
EXCELSIOR	Eratosthenes: Excellence Research Centre for Earth Surveillance and Space-based Monitoring of the Environment
NOA	National Observatory of Athens
PMOD/WRC	Physikalisch-Meteorologisches Observatorium Davos / World Radiation Center
TROPOS	Leibniz Institute for TROPOSpheric Research
DLR	German Aerospace Centre
TBD	To be determined



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1 Introduction

The deliverable D6.10: Report on visiting experts Seminars and trainings (update 1) provides comprehensive updates on the visiting experts, seminars, and training activities implemented within RP4 (M49-M66) as part of the ERATOSTHENES CoE's commitment to knowledge transfer and professional development. These activities aim to enhance the expertise of staff, both administrative and research, foster collaboration with external specialists, and ensure continuous professional development within the Centre. By inviting distinguished experts and participating in workshops in conferences, targeted training and seminar sessions, the Centre has facilitated the exchange of cutting-edge knowledge and best practices across various domains. This report systematically documents the initiatives undertaken, their impact, and their contribution to the overall objectives of the Centre.

The deliverable is structured into three main sections. The first section details the visiting experts who contributed to the Centre's research and development, the internal and external workshops, and the training and seminar activities that ECoE staff participated in. This section highlights the thematic focus of each activity and the expertise shared. The second section provides the effectiveness of these activities and outlines future initiatives. The final section contains detailed documentation of the selected events.

Through this report, the ERATOSTHENES CoE aims to assess the continuous impact of its knowledge-transfer activities and refine its approach to maximize benefits for researchers and stakeholders. The findings will inform future efforts to strengthen collaborations with international experts, align training programs with emerging research needs, and reinforce the Centre's role as a hub for scientific exchange. By continuously investing in expert visits, workshops, and professional development activities, the Centre remains dedicated to fostering an environment of learning and innovation.



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2 Implemented Activities

2.1 Invited Experts

Within the RP4, a total of 25 invited experts were engaged to deliver talks on various relevant subjects. These experts were selected for their expertise and contributions to advancing knowledge in their respective fields. Table 1 below provides a detailed overview of each invited expert, including the title of their lecture or presentation, the organization they represent, the date the talk occurred, the total number of days of their engagement, and the thematic area of the topic covered.

Table 1: Lectures/Talks

Organization	Invited Expert, Lecture/Presentation Title	Date	# of days	Thematic Area
Aristotle University of Thessaloniki	Prof. Ioannis Gitas TOPIC: Fuel mapping and fire spread	08-09/02/2024	2	ALL
National Technical University of Athens	Prof. Evangelos Baltas TOPIC: Hydrology and Water Resources Development Laboratory at the National Technical University of Athens	09/02/2024	1	Water
Public Works Department/Coastal Sector	Mr. Stelios Zervos TOPIC: Coastal Zone Management in Cyprus	13/02/2024	1	Disaster Risk
Universität Freiburg	Prof. Steffen Kuntz TOPIC: New market opportunities and challenges for remote sensing services	08-09/04/2024	2	ALL
MINES Paris – PSL Research University	Prof. Philippe Blanc TOPIC: Solar Resource Assessment and Forecasting Using Earth Observation and Data Sciences	30/09/2024	1	Energy



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Organization	Invited Expert, Lecture/Presentation Title	Date	# of days	Thematic Area
NOA	Dr Dimitris Sykas TOPIC: EU AI Act, intro business aspects of AI, combination of AI Act and product/business design	30/10/2024	1	ALL
INAT	Assoc. Prof. Anis Chekirbane TOPIC: Status of Water Resources in Tunisia and Joint Activities between INAT-ECOE	24/10/2024	1	Water
ENSO	Mrs. Vana Karayianni TOPIC: HR Strategy	30/10/2024	1	HR
University of Thessaly Geosystems Hellas University of Athens Yellow Window	Dr. Chryssi Laspidou Ms. Betty Charalampopoulou Dr. Nikos Panagiotopoulos Ms. Vassia Madesi TOPIC: The Gender Dimension in the Science of Geoinformatics and Remote Sensing	20/11/2024	1	ALL
Finnish Meteorological Institute	Dr. Arslan Ali Nadir TOPIC: Opportunities of Earth Observation in the Official Statistics: Smart Statistics	27/01/2025	1	ALL
CNR-ISPC - Institute of Heritage Science	Dr. Nicola Masini TOPIC: Earth Observation Based Approaches for Archeological Interpretation and Cultural Heritage Protection and Conservation	30/01/2025	1	Cultural Heritage
Università degli Studi di Milano	Dr. Corrado Alberto Sigfrido Camera TOPIC: Data-driven models for digital soil mapping and landslide susceptibility assessments and their integration with Earth Observations	06/02/2025	1	Environment and Climate
Paris London	Dr. Martin Sudmanns	24/02/2025	1	Big Data



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Organization	Invited Expert, Lecture/Presentation Title	Date	# of days	Thematic Area
Universität Salzburg - Department of Geoinformatics	TOPIC: Semantic Earth observation data cubes			
Queen Mary University of London (QMUL)	Xinwei Wang TOPIC: Agile Earth Observation Satellite Scheduling: Formulations, Methods, and Future Directions	03/12/2024	1	ALL
Climate and Atmosphere Research Center (CARE-C), Cyl	Yiannis Proestos TOPIC: Climate Change Impacts: Projections of Heat-Related Mortality in the MENA Region and the Global Health Burden of Accelerating Effects of Non-Optimal Temperatures Compared to Air Pollution	27/02/2025	1	Environment & Climate
Sapienza University (Rome)	Salvatore Stramondo TOPIC: Satellite Earth Observation for protecting infrastructures from natural and anthropogenic hazard	13/03/2025	1	Disaster Risk
Ministry of Digital Governance of Greece	Prof. Konstantinos Karantzalos TOPIC: Greek National Small Satellite Program: Opportunities for Greece-Cyprus Collaboration	17/03/2025	1	All
State-Building Division for the MENA Region United Nations	Dr. Younes Abouyoub TOPIC: Collaborative Governance for Crisis Management in the MENA Region	17/03/2025	1	All
Aristotle University of Thessaloniki	Prof. Nikolaos Panagiotou TOPIC: The potential of integrating remote sensing and geospatial technologies into crisis communication	17/03/2025	1	All
Aristotle University of	Prof. Ioannis Gitas	17/03/2025	1	All



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Organization	Invited Expert, Lecture/Presentation Title	Date	# of days	Thematic Area
Thessaloniki	TOPIC: MedRIN Nasa Network			
European Commission	Tim Lemmens TOPIC: Copernicus for Environment Monitoring: status and future outlook	17/03/2025	1	All
Deputy Governor of Western Attica	Lefteris Kosmopoulos TOPIC: Flood management from the perspective of the decision-makers: Insights from a fatal flash flood event that took place in West Attica, 2017	17/03/2025	1	All

2.2 Workshop in conferences

Within the scope of RP4, staff from the ERATOSTHENES CoE actively participated in workshops held at 4 different conferences. These workshops provided valuable opportunities for professional development, knowledge exchange, and networking within various scientific and technological domains. Table 2 below outlines the details of each event, including the organization or presenter responsible for organizing the conference, the title of the conference, the date it took place, the total number of days of the event, and the thematic area that the conference focused on.

Table 2: Workshops

Organization / Presenter	Title	Date	# of days	Thematic Area
CUT & ECoE	GIS Day 2023	13/11/2023	1	ALL
CUT & ECoE	GIS Day 2024	21/11/2024	1	ALL
ECoE	Tenth International Conference on Remote Sensing and Geoinformation of Environment (RSCy2024)	08-09/04/2024	2	ALL



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Organization / Presenter	Title	Date	# of days	Thematic Area
ECoE	Eleventh International Conference on Remote Sensing and Geoinformation of Environment (RSCy2025)	17-19/03/2025	3	ALL

2.3 Training and seminar activities

Within RP4, staff members of the ERATOSTHENES CoE participated in 39 training sessions and seminars, aimed at enhancing their skills and knowledge across various disciplines. These activities provided staff with opportunities to engage in professional development, keeping them informed about the latest trends and practices in their fields. Table 3 provides details of each training and seminar, including the organization that delivered the session, the topic covered, the date it took place, the total number of days, and the thematic area of the event.

Table 3: Training and seminar

Organization	Topic	Date	# of days	Thematic Area
EMME-CARE	3rd Annual Workshop - Climate and Atmosphere Research & Innovation in the EMME	07/11/2023	1	Atmosphere
ECoE	Agriculture Equipment Training	03-04/04/2024	2	Agriculture
APRE	AI-OBSERVER - RMA-WS Research proposal preparation skills	24-26/09/2024	3	ALL
CKTO	Communicating R&D results and their use (pitch R&D Results)	16/12/2024	1	ALL
CUT, together with the Embassy of the Czech Republic	Collaboration and Research Matchmaking CUT – Czech Universities	11/03/2024	1	ALL
Nereus	Empowering the Cosmos - Women's dynamic role in shaping the space sector	06/12/2023	1	ALL



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Organization	Topic	Date	# of days	Thematic Area
RIF	ERC Grants 2024	13/03/2024	1	ALL
CUT	FPCUP - Copernicus Cultural Heritage Summer School	31/10-03/11/2023	4	Cultural Heritage
GAWTEC	41st GAWTEC Training Course – Aerosols	16-27/10/2023	12	Atmosphere
University of Cyprus	ENIGMA workshop for archaeologists	05/02/2025	1	Cultural Heritage
	GLITSS WG4 Workshop: Vision- and language-based technologies for the detection of illicit trade	29/02-01/03/2024	2	Cultural Heritage
RIF	NATIONAL INFO DAY ON HORIZON EUROPE: Horizon Europe Cluster 6 “Food, Bioeconomy, Natural Resources, Agriculture & Environment” - Available Funding Opportunities (CALLS 2024)	06/12/2023	1	Environment & Climate
European Commission	Horizon Europe Research Infrastructures - Info Day on 2024 Calls in Work Programme 2023 2024	13/11/2023	1	ALL
ECoE	In house Research proposals	27/11/2023	1	ALL
Copernicus	Info Day - EU Space Networks - The new Copernicus Dataspace Ecosystem	10/10/2023	1	ALL
EKT & RIF	Info Day - Horizon Europe - MSCA Staff Exchanges	24/10/2023	1	ALL
CUT	Info Day - Library of Cyprus University of Technology	24/10/2025	1	ALL
The Cyprus Institute	Innovative Big Data Analytics and Applications	08/11/2023	1	Big Data
Joint Research Centre & Copernicus	Integrating Disaster Risk Data in Policy: the Copernicus Emergency Management Service (CEMS)	13/10/2023	1	Disaster Risk



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Organization	Topic	Date	# of days	Thematic Area
IDEA	Don’t be afraid to reach for the stars: Lessons learned from a career in remote sensing	14/11/2023	1	ALL
ECECT, ECoE & AUTH	ReSENSE	29/01/2025	1	Disaster Risk
SURE, ECoE & CUT	Seismic risk assessment	27-28/02/2024	2	Disaster Risk
ECoE	Training of the new surveying equipment	23/10/2024	1	
Blue Parks Community	Working together for the protection and restoration of marine ecosystems and biodiversity	06/12/2023	1	Marine Safety & Security
ECoE	Workshop - Introducing The New HR Software “Peopleforce”	26/02/2024	1	ALL
CUT	Training of safety and health representatives based on ΚΔΠ238/2021	24/11/2023	1	ALL
RIF	Proposal Writing Training Workshop – Entry Level	01/11/2023	1	ALL
School of Chironas	First Aid training course	30/11/2023 & 07/02/2025	2	ALL
Mediterranean Institute of Gender Studies	Gender and Unconscious Bias: Understanding and Overcoming Gender Stereotypes and Bias	05/12/2023 & 25/01/2024	2	ALL
COSMOS Space NCP Network & European Commission	Horizon Europe - Brokerage Event for Cluster 4 –Space calls 2023/2024	18/10/2023	1	ALL
EFACT Services Limited	Microsoft Azure Administrator	15/11/2023-21/01/2024	9	IT
EFACT Services Limited	Microsoft Azure Fundamentals	07-08/11/2023	2	IT



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Organization	Topic	Date	# of days	Thematic Area
TUVNORD	GDPR - Impact Assessment and Data Breach Plan in Action	21/11/2023	1	Regulation
TUVNORD	GDPR - Understanding and Application	03/11/2023	1	Regulation
TUVNORD	The Art of Managing People	23/11/2023	1	HR
European Institute of Management & Finance	Termination of Employment	18-19/10/2023	2	HR



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3 Overview and Future Work

Implementing lectures, presentations, and workshops by invited experts has significantly impacted the ERATOSTHENES CoE staff, enhancing their knowledge, skills, and professional development. Through these sessions, employees have gained exposure to the latest advancements in their respective fields, fostering innovation and improving their research capabilities. Interactions with esteemed experts have also encouraged knowledge exchange and interdisciplinary collaboration, strengthening the Centre's expertise. The insights and methodologies shared by the invited experts have provided valuable guidance for ongoing and future projects, leading to more effective research outcomes.

Beyond technical knowledge, participation in seminars, trainings, and workshops has played a crucial role in developing soft and technical skills among ERATOSTHENES CoE staff. Training sessions have enhanced problem-solving abilities, communication skills, and leadership qualities, which are essential for a productive and collaborative work environment. Furthermore, targeted technical workshops have contributed to the continuous upskilling of employees, ensuring that they stay up to date with the latest tools, technologies, and methodologies. This comprehensive approach to professional development supports the overall growth and efficiency of the Centre, helping employees to meet both current and future challenges.

The ERATOSTHENES CoE remains committed to the continuous organization of seminars, trainings, and workshops to support its employees' professional development. The Centre will not only focus on inviting leading experts to share their knowledge but will also actively encourage and support staff in attending relevant external events. By fostering a lifelong learning and knowledge-sharing culture, the ERATOSTHENES CoE aims to strengthen its internal expertise while creating opportunities for future collaborations with international institutions and experts. This strategic approach will ensure that ECoE maintains its role as a leading research institution while empowering its employees to excel in their respective domains.



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4 Conclusions

The activities outlined in this deliverable demonstrate the ERATOSTHENES CoE's strong commitment to fostering a dynamic and knowledge-driven research environment. By engaging with visiting experts, participating in workshops, and organizing targeted training sessions, the Centre has successfully enhanced the professional development of its staff while strengthening collaborations with leading institutions worldwide. These initiatives have facilitated knowledge transfer and enriched the expertise of ECoE researchers and administrative staff, enabling them to remain at the forefront of scientific advancements in their respective fields.

Looking ahead, the Centre remains dedicated to expanding its training and knowledge-sharing efforts, ensuring that its workforce is equipped with cutting-edge skills and insights. Future initiatives will continue to foster interdisciplinary collaborations, attract high-caliber experts, and integrate emerging trends into training programs. By sustaining this commitment to continuous learning, the ECoE will reinforce its position as a hub for innovation and excellence, empowering its staff to contribute meaningfully to scientific and technological advancements.



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Appendix A – Documentation of the conducted seminars/lectures

TOPIC: Fuel mapping and fire spread (by Prof. Ioannis Gitas)

Prof. Ioannis Gitas delivered a compelling presentation on *"G.I.S. and Remote Sensing Applications - New Technologies"* which was held on 8th and 9th February 2024. His talk explored cutting-edge remote sensing technologies for wildfire monitoring and management, emphasizing the integration of LiDAR, RADAR, hyperspectral remote sensing, and UAV-based data acquisition. He highlighted how these technologies contribute to precise fuel mapping, fire behaviour modelling, and real-time fire spread prediction. Additionally, he discussed innovative service applications that enhance disaster risk management, improve emergency response strategies, and support sustainable land management practices.





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Figure 1-2: Presentation on Fuel mapping and fire spread



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TOPIC: Hydrology and Water Resources Development Laboratory at the National Technical University of Athens (by Prof. Evangelos Baltas)

On 9th February 2024, Dr. Baltas presented the capabilities and the infrastructure of the Hydrology and Water Resources Development Laboratory at the National Technical University of Athens. The presentation focused on projects regarding the Estimation of hydrological basin runoff with combined analysis of hydrological and geomorphological, Investigation of sedimentary deposits in hydroelectric and other reservoirs, Modern methods in the supervision and management of the water resources system of Greece and Sophisticated Flood Prediction Models. He outlined how these projects had helped the government of Greece make strategic decisions. Dr. Baltas stressed the readiness of the Water Development Authority of Cyprus (WDAC) to work in relevant areas of mutual interest. They presented specific projects of interest with WDAC, such as the accurate estimation of the water level in reservoirs by identifying sedimentary deposits to provide a more precise estimate of the available water body in the national reservoirs.



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TOPIC: Coastal Zone Management in Cyprus (by Mr. Stelios Zervos)

The workshop, led by Mr. Stelios Zervos on 13th February 2024, focused on the needs of the Department of Public Works Marine Projects. Discussions highlighted potential contributions of the ERATOSTHENES CoE, particularly in geoinformatics and coastal erosion monitoring. The workshop explored how AI-driven remote sensing technologies can provide real-time data and predictive analytics to assess coastal vulnerabilities, detect early signs of erosion, and support decision-making for sustainable coastal management. The workshop emphasized the importance of leveraging advanced monitoring systems to enhance resilience and safeguard coastal infrastructure against environmental threats.





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Figure 3-4: Presentation on Coastal Zone Management in Cyprus



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TOPIC: New market opportunities and challenges for remote sensing services (by Prof. Steffen Kuntz)

During the Tenth International Conference on Remote Sensing and Geoinformation of Environment (RSCy2024), held on 8-9 April 2024, Prof. Steffen Kuntz delivered a compelling presentation titled "New Market Opportunities and Challenges for Remote Sensing Services." With over 40 years of experience in remote sensing applications and Geographic Information, Prof. Kuntz provided valuable insights into emerging trends, market potential, and the challenges faced by the industry. As one of the expert speakers at RSCy2024, his contributions were widely recognized and was honored by the ERATOSTHENES CoE with an award for his significant impact on Earth Observation at the European level.





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Figure 5-6: Presentation - New market opportunities and challenges for remote sensing services



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TOPIC: Solar Resource Assessment and Forecasting Using Earth Observation and Data Sciences (by Prof. Philippe Blanc)

On 30th September 2024, Prof. Philippe Blanc delivered a presentation on solar resource assessment and forecasting using Earth Observation and data science techniques. The development of satellite-based methods for estimating surface solar irradiance and their applications in forecasting solar energy potential was presented. The talk also covered high-resolution solar assessment at urban scales, integrating in-situ measurements, digital surface models, and probabilistic forecasting techniques. Additionally, the importance of advanced data science for improving solar resource predictions and supporting sustainable energy planning were highlighted.

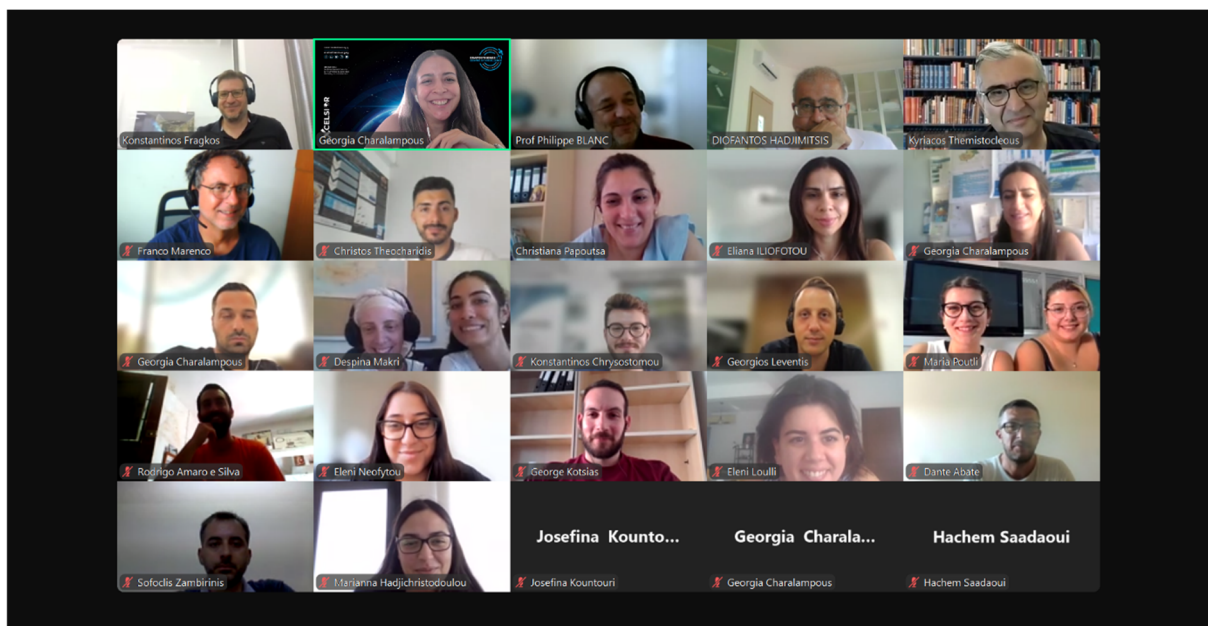


Figure 7-8: Solar Resource Assessment and Forecasting Using Earth Observation and Data Sciences



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TOPIC: EU AI Act, intro business aspects of AI, combination of AI Act and product/business design (by Dr. Dimitris Sykas)

On 30 October 2024, Dr. Dimitris Sykas delivered an insightful presentation titled "EU AI Act: Introduction, Business Aspects of AI, and the Intersection of AI Regulation with Product and Business Design." The session provided a comprehensive overview of the EU AI Act, emphasizing its significance for businesses, researchers, and policymakers navigating the evolving regulatory landscape. Dr. Sykas outlined the key regulatory requirements for AI systems, highlighting compliance obligations and risk-based classifications that organizations must consider. He also examined the practical implications of the Act, particularly its impact on innovation, product development, and strategic decision-making within AI-driven enterprises. A key focus of the presentation was the Data Quality Compliance Tool, designed to assist organizations in meeting the stringent data governance standards mandated by the regulation. Through this session, attendees gained valuable insights into aligning AI deployment with legal frameworks, ensuring responsible and ethical AI integration in business operations.





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Figure 9-10: EU AI Act, intro business aspects of AI, combination of AI Act and product/business design



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TOPIC: Status of Water Resources in Tunisia and Joint Activities between INAT-ECOE (by Assoc. Prof. Anis Chekirbane)

The presentation, held on 24 October 2024, comprised two main parts. The first part focused on discussing the current status of the water resources in Tunisia, both conventional and unconventional, the major challenges that the national and regional authorities are facing, and finally, the efforts that all relevant actors are making to address the water scarcity issue. The second part of the presentation provided an overview of the collaborative activities between ERATOSTHENES CoE and INAT, including joint proposals, publications, staff exchange, and knowledge transfer via seminars. Additional discussions took place after the completion of the presentation with leading members of ERATOSTHENES CoE to organize the next steps.





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Figure 11-12: Status of Water Resources in Tunisia and Joint Activities between INAT-ECOE



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TOPIC: HR Strategy (by Mrs. Vana Karayianni)

On 30 October 2024, the "HR Strategy" workshop with Mrs. Vana Karayianni provided an insightful discussion on key human resource management aspects. The session began with an in-depth review of HR challenges, identifying critical organizational effectiveness issues. Participants then explored ways to enhance the HR framework, focusing on refining policies and processes to support sustainable growth. A structured approach to developing a strategy for improved efficiency was introduced, emphasizing best practices for optimizing HR operations. The workshop concluded with formulating an action plan and next steps, outlining practical measures to implement the discussed strategies and drive meaningful progress.





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Figure 13-14: HR Strategy workshop



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TOPIC: Opportunities of Earth Observation in the Official Statistics: Smart Statistics (by Dr. Arslan Ali Nadir)

On 27 January 2025, Dr. Arslan Ali Nadir delivered a presentation on "Opportunities of Earth Observation in the Official Statistics: Smart Statistics," highlighting the growing role of Earth Observation in the statistical domain. He provided an overview of how satellite data is increasingly utilized to enhance statistical analyses, improving accuracy and efficiency in various applications. The presentation introduced the European Space Capacities, focusing on the Copernicus Programme, which delivers critical Earth Observation data for environmental and socio-economic monitoring. Additionally, Dr. Nadir discussed the ESA GAUSS project, which explores the integration of Earth Observation into Smart Statistics, showcasing innovative approaches to leveraging satellite data for more dynamic and responsive statistical methodologies.





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Figure 15-16: Opportunities of Earth Observation in the Official Statistics: Smart Statistics



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TOPIC: Earth Observation Based Approaches for Archeological Interpretation and Cultural Heritage Protection and Conservation (by Dr. Nicola Masini)

On 30 January 2025, Dr. Nicola Masini, a researcher at the National Research Council of Italy (Institute of Heritage Science), delivered an invited talk at the ECoE, focusing on Earth Observation-based approaches for Archaeological Interpretation and Cultural Heritage Protection and Conservation. His lecture explored the application of Remote Sensing and other aerial and terrestrial technologies in the study and analysis of archaeological and heritage assets, highlighting their significance for both research and protection efforts. The event attracted approximately 30 participants, with half attending in person. Following Dr. Masini’s presentation, Dr. Dante Abate introduced the audience to Google Earth Engine, demonstrating its practical applications for safeguarding cultural heritage.





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Figure 17-18: Earth Observation Based Approaches for Archaeological Interpretation and Cultural Heritage Protection and Conservation



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TOPIC: Semantic Earth observation data cubes (by Dr. Martin Sudmanns)

On 24th February 2025, the ERATOSTHENES CoE hosted Dr. Martin Sudmanns for an expert talk on "Semantic Earth Observation Data Cubes". Dr. Martin Sudmanns is a Austrian Semantic Data Cube (ASDC) team member at the University of Salzburg, Z GIS lab. During his talk, Dr. Sudmanns mentioned the importance of national Earth Observation Data Cubes and highlighted the Cyprus Data Cube as the newly added Data Cube in the list. Moreover, he spoke about the process on the development of ASDC and presented different applications using semantic analysis through Data Cubes.



Figure 19: Semantic Earth observation data cubes



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Tenth International Conference on Remote Sensing and Geoinformation of Environment (RSCy2024)

The 10th International Conference on Remote Sensing and Geoinformatics of the Environment, known as RSCy 2024, was held on 8 and 9 April 2024 in Paphos by the ERATOSTHENES Center of Excellence, the “EXCELSIOR” project of the Cyprus University of Technology and the Cyprus Remote Sensing Society. The Conference was organized with the contribution and support of the Department of Electronic Communications of the Deputy Ministry of Research, Innovation and Digital Policy and the European Space Agency. The participants, who came from 30 different countries, had the opportunity to learn from distinguished speakers about the latest developments in over 22 topics in cutting-edge fields through the use of satellite data, remote sensing, space technologies, Earth Observation, geoinformatics and artificial intelligence (AI), which are applied in various sectors such as agriculture, atmospheric studies, cultural heritage protection, blue economy, maritime safety, natural disasters (e.g. floods, fires, earthquakes, landslides, etc.), meteorology, environment, hydrology, water resources, land use, big data, and more.

Within the framework of RSCy2024, six specialized workshops were successfully held, covering various topics in remote sensing, Earth observation, and geoinformatics. These included the Annual Hybrid Workshop on 'AI & Big Data: Trends and Challenges,' organized by the EXCELSIOR H2020 Teaming Project, and the Workshop for ReSENSE (Remote Sensing Technologies Training) Project, which focused on capacity building in remote sensing applications. Additionally, a Workshop and Round Table on Earth Observation and Geoinformatics for the Protection of Cultural Heritage facilitated discussions on the role of advanced geospatial technologies in heritage conservation. The event also featured a Matchmaking Event and Workshop in Cyprus, organized under the Framework Partnership Agreement on Copernicus User Uptake (FPCUP), to foster collaborations among stakeholders. Moreover, the Beyond the Horizon: The Second Workshop on Maritime Security, Surveillance, and Awareness in Cyprus, jointly organized by the EXCELSIOR H2020 Teaming Project, CUT, the ERATOSTHENES CoE, and DLR, provided insights into maritime monitoring strategies. The “ERATOSTHENES CoE Living Labs & Opportunities and Challenges in Carbon Farming” Workshop, co-organized by the EXCELSIOR H2020 Teaming Project and the CARBONICA Horizon Europe Project, explored innovative approaches in sustainable agriculture and carbon farming. These workshops were crucial in fostering knowledge exchange and strengthening collaborations within the remote sensing and Earth observation community.



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Figure 20-21: RSCy2024



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Eleventh International Conference on Remote Sensing and Geoinformation of Environment (RSCy2025)

The 11th International Conference on Remote Sensing and Geoinformation of Environment (RSCy2025) took place from 17 to 19 March 2025 in Paphos, Cyprus. Organized by the ERATOSTHENES CoE and the Cyprus Remote Sensing Society, the Conference brought together experts, researchers, and professionals from nearly 30 countries to discuss advancements in remote sensing and geoinformation. The program featured both oral and poster presentations covering 22 major themes, including hazards, fires, forestry, marine and coastal studies, cultural heritage, synthetic aperture radar (SAR), remote sensing applications, atmospheric and ionospheric research, meteorology, agriculture, water resources, land use and land cover, urban applications, artificial intelligence, and big data.

Beyond the main sessions, RSCy2025 also hosted 11 specialized workshops from various funded projects, offering participants in-depth insights into cutting-edge research and technological innovations. The event provided an excellent platform for networking and collaboration, as distinguished speakers and authors shared their expertise on the latest developments across all 22 themes. Attendees had the opportunity to exchange knowledge, explore interdisciplinary applications, and engage in discussions on emerging challenges and solutions in remote sensing and geoinformation science.





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Figure 22-23: RSCy2025