



Cyprus University of Technology and its expertise and interest for cooperation

Professor Diofantos G. Hadjimitsis Coordinator, EXCELSIOR H2020 Teaming Managing Director, ERATOSTHENES Centre of Excellence, Former-Vice Rector for Academic Affairs *Email: d.hadjimitsis@cut.ac.cy*





This project has received funding from the European Union's "Horizon 2020 Research and Innovation Programme" under Grant Agreement No 857510"

This project has received funding from the Government of the Republic of Cyprus through the "Directorate General for European Programmes, Coordination and and Development"



This project is co-funded by the Cyprus University of Technology

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Cyprus





ERATOSTHENES: Excellence Research Centre for Earth Surveillance & Space-Base Monitoring of the Environment

Cyprus University of Technology

- The Cyprus University of Technology (CUT) is one of the three public universities in Cyprus, which has been established by law in 2004. Its first intake of students took place in the academic year 2007–08. It is based in Limassol, the second largest city in Cyprus.
- The University consists of **6 faculties** including the Faculty of Engineering and Technology, 13 departments and 1 Language Centre offering academic degree programs: 15 undergraduate, 15 postgraduate, 15 doctoral.
- In less than 14 years of operation, the CUT has occupied high positions in three of the most well-known international ranking lists: Times Higher Education, QS and Shanghai.
- In the Times Higher Education World University Rankings (THE), the CUT is ranked 301-350 worldwide, the highest position amongst universities in Cyprus and Greece, for the years 2020, 2019 and 2018.











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www.cut.ac.cy Cyprus University of Technology, 2007 (2003 by law) www.excelsior2020.eu EXCELSIOR H2020 Teaming Project (2019): Project www.eratosthenes.org.cy ERATOSTHENES CoE (2020): New Entity







ECELSIOR ERATOSTHENES: Excellence Research Centre for Earth Surv Monitoring of the Environment

Department of Civil Engineering and Geomatics at the Cyprus University of Technology

The Faculty of Engineering and Technology consists of the following 3 departments:

- Department of Civil Engineering and Geomatics,
- Department of Electrical Engineering and Computer Engineering and Informatics,
- Department of Mechanical Engineering and Materials Science and Engineering.

Aims:

To provide **high quality, internationally oriented higher education programs**, that will offer our students the opportunity to develop a strong theoretical, technical and practical background in their field of studies through our fully equipped laboratories and teaching facilities.

We also aim to work and promote cutting edge applied and basic research in the areas of Civil Engineering and

Geomatics, facilitating and fostering a **research and development** culture in Cyprus and the region.











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Department of Civil Engineering and Geomatics – Under- and Post- graduate Programmes

- The Department offers
 - Two undergraduate orientations of a with the respective curricula that fully meet the needs of the 21st century:
 - **1. BEng Civil Engineering (4 years)**
 - **2.** BEng Surveying Engineering and Geoinformatics Engineering (4 years)
 - Two Master's Degrees:
 - **1. MSc in Geoinformatics and Earth Observation (13 months full time)**
 - 2. MSc in Civil Engineering and Sustainable Design (13 months full time)
 - PhD in Civil Engineering & Geomatics (e.g. Earth Observation, GIS, Geodesy, Photogrammetry)





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ERATOSTHENES: Excellence Research Centre for Earth Monitoring of the Environment

Department of Civil Engineering and Geomatics – MSc in Geoinformatics and Earth Observation (New Applications February 2023)

- The master's program "Geoinformatics and Earth Observation" in collaboration with EXCELSIOR (review on 22-6-2022 by 3 experts) constitutes a competitive program of international standards, which:
 - 1. provides the opportunity for **specialization and knowledge expansion** in Geoinformatics, cutting edge Geospatial **Technologies and Earth Observation**
 - 2. promotes high-quality research in the fields of Geoinformatics, Geospatial Technologies and Earth Observation
 - 3. provides the opportunity to come across with high-level and high-quality research funded activities such as the **EXCELSIOR H2020 TEAMING Project**
 - 4. prepares students towards the continuation of their education at a PhD level
 - 5. equips students with additional qualifications and skills related to Geoinformatics, Geospatial Technologies and Earth Observation in order to seek employment with greater competence in the public or private sector.
 - 6. provides the **opportunity to employees already working in the public or private sector** to continue their education in a graduate level, thus offering professional advancement opportunities.





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MSc in Geoinformatics and Earth Observation (Structure of the Course)

- Geographic Information Systems (GIS) and Science
- Geospatial Data Acquisition
- Remote Sensing and Earth Observation
- Digital Imaging, Photogrammetry & Computer Vision
- Research Methods: Geoinformatics & Earth Observation
- Geospatial Data Science
- Earth Observation for Environmental Monitoring
- Space-based Positioning and Deformation Monitoring Techniques
- Specialization: Geoinformatics & Earth Observation
- Special Topics in GIS

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- Special Topics in Earth Observation
- Special Topics in Earth Data Analytics





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ΔΙΠΑΕTHE CYPRUS AGENCY OF QUALITY ASSURANCECYQAAAND ACCREDITATION IN HIGHER EDUCATION



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PROGRAM REQUIREMENTS	ECTS
Compulsory courses (First and Second	
Semester of studies)	42
Elective courses (First and Second Semester of studies) (α) Courses of specialization	18
MSc Thesis (dissertation)	30
Total ECTS	90





https://www.cut.ac.cy/studies/phd/PhD+vacant+positions/

-Eight (8) posts in the field of Earth Observation &

Remote Sensing & Geoinformatics (Environment-

-Three (3) positions in Atmospheric Remote Sensing

in joint supervision with the EXCELSIOR consortium

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the Republic of Cyprus through the "Directorate General for

European Programmes, Coordination and and Development".

Studies start in January 2023/ Apply Now!

-Three (3) positions in Solar Energy with EO

Deadline for applications:

Friday, 25th of November 2022

Climate, Resilient Society, Big Data)

ERATOSTHENES: Excellence Research Centre for Earth Surveillance & Space-Base Monitoring of the Environment

Department of Civil Engineering and Geomatics – PhD in Civil Engineering and Geomatics

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rogramme" under Grant Agreement No 857510"

PROGRAM REQUIREMENTS	ECTS
Compulsory courses (RESEARCH	
METHODS)	6
Elective courses	all Deserve
(a) Courses of specialization	
(b) General Education courses / Free	- Star
Electives	-
PhD Thesis /Dissertation	234
Total ECTS	240

240 ECTS are required to obtain a Doctoral Degree. 240 ECTS splitted into 8 semesters of 30 ECTS each.

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Maximum 60 ECTS are required in modules and minimum 180 ECTS in research.

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Remote Sensing and Geo-Environment Lab at the Cyprus University of Technology

- 15 years of operation,
- Participated in more than 150 research projects
- Coordinated more than 35 research projects
- **Secured funding** from various competitive sources such as:

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- National, 0
- European Union, Ο
- Industry Ο

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About our team (upgraded to ERATOSTHENES Centre of Excellence)

- In 2007, the 'Remote Sensing & Geo Environment Lab', 'Geodesy Lab', 'Geospatial Analysis Lab' (Eratosthenes ٠ **Research Center - ERC)** were established within the Department of Civil Engineering and Geomatics with a research focus in: Earth Observation, Remote Sensing and Geoinformatics.
- In 2016, the first stage proposal was submitted and EXCELSIOR phase 1 proposal was granted ٠
- In 2017-2018 phase 1 was implemented (ranked first) and on August 2018 business plan was submitted. ٠
- In November 2018, the proposal (phase2) with the acronym 'EXCELSIOR' under the H2020 WIDESPREAD TEAMING ٠ was submitted.
- In 2019, the proposal (phase2) with the acronym 'EXCELSIOR' under the H2020 WIDESPREAD TEAMING was successful ٠ and the funding was granted!
- In 2020, ERATOSTHENES COE was established and became a legal entity through EXCELSIOR. •
- In 2021/2022, ERATOSTHENES COE and two affiliated entities joined the consortium after contract amendment • (with backdated implementation on October 2021)









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Funded by H2020 & the Republic of Cyprus & CUT

- Pillar and Work Programme: Spreading excellence and widening participation ٠
- Work Programme Year: H2020-2018-2020 ٠
- Call: H2020-WIDESPREAD-2018-2020 ٠
- Topic: WIDESPREAD-01-2018-2019 Teaming 2 •
- Type of action: CSA (Coordination and support action)
- Grant Agreement number: 857510, Acronym: EXCELSIOR ٠
- Total Budget: >38,000,000 € •
- (15 million from EC+ 15 from Republic of Cyprus+ 8 million from CUT, etc.)
- Duration: 7 Years (EC) + 8 years (Republic of Cyprus/RC) •
- Start: 1 October 2019 / End: 30 September 2026 (EC) / 30 September 2034 (RC)







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ERATOSTHENES: Excellence Research Centre for Earth Surveillance & Space-Base Monitoring of the Environment

The idea behind EXCELSIOR

• Our mission:

To upgrade the existing Remote Sensing & Geo-Environment Lab (ERATOSTHENES Research Centre), within the Faculty of Engineering & Technology of the Cyprus University of Technology (since 2007), into a sustainable, viable and autonomous Centre of Excellence: the ERATOSTHENES Centre of Excellence (ECoE).

• Our vision:

The ERATOSTHENES CoE, becomes a world-class Digital Innovation Hub (DIH) for EO and Geospatial Information and develops into the reference Centre in the Eastern Mediterranean, Middle East and North Africa Region (EMMENA).





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Public inauguration of the Excelsior H2020 teaming Project / November 2019 at the Cyprus University of Technology Premises

















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Our Team









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Board of Directors of ECoE

- 1. Professor Evangelos AKYLAS Cyprus University of Technology;
- 2. Mr. Marios DEMETRIADES Managing Director of the MD Mindset Capital Ltd; Former Minister of Communications and Works
- 3. Mrs Vasiliki ANASTASIADOU Former Minister of Communications and Works;** Prof. Tasos Georgiades (new member, CUT)
- 4. Mrs Barbara RYAN Former Secretariat Director of GEO (Group on Earth Observations);
- 5. Dr Rosa LASAPONARA CNR, Italy;
- 6. Dr Nektarios CHRYSOULAKIS Director of Research. Foundation for Research and Technology (FORTH), Greece;
- 7. Mr. Christos STYLIANIDES Former European Commissioner** will be substituted



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External Advisory Board

Dr. Vincent Ambrosia (M)Associate Program Manager NASA Applied Sciences ProgramNASA/California State University (USA)Dr. Marcello Maranesi (M)International business experience in Geo-Spatial Information and Earth ObservationIndependent consultant (Italy)Prof. Lena Halounová (F)Head of the Remote Sensing Laboratory/ IPSRS Secretary GeneralCzech Technical University (Czech Republic)	Name	Position	Organisation
Dr. Marcello Maranesi (M)International business experience in Geo-Spatial Information and Earth ObservationIndependent consultant (Italy)Prof. Lena Halounová (F)Head of the Remote Sensing Laboratory/ IPSRS Secretary GeneralCzech Technical University (Czech Republic)	Dr. Vincent Ambrosia (M)	Associate Program Manager NASA Applied Sciences Program	NASA/California State University (USA)
Prof. Lena Halounová (F)Head of the Remote Sensing Laboratory/ IPSRS Secretary GeneralCzech Technical University (Czech Republic)	Dr. Marcello Maranesi (M)	International business experience in Geo-Spatial Information and Earth Observation	Independent consultant (Italy)
	Prof. Lena Halounová (F)	Head of the Remote Sensing Laboratory/ IPSRS Secretary General	Czech Technical University (Czech Republic)
Dr. Peter Zeil (M) Senior expert in the field of EO services and applications Spatial Services GmbH (Austria)	Dr. Peter Zeil (M)	Senior expert in the field of EO services and applications	Spatial Services GmbH (Austria)
Dr. Bianca Hörsch (F) Chief Digital Officer ESA Headquarters	Dr. Bianca Hörsch (F)	Chief Digital Officer	ESA Headquarters
Mr. Daniel Barok (M)Senior Space ConsultantSpaceFarma (Israel)	Mr. Daniel Barok (M)	Senior Space Consultant	SpaceFarma (Israel)



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Cesa isprs **European Space Agency** information from imagery





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Why this Consortium?

The strategic partners of the EXCELSIOR project form a highly complementary team with the full range of technical skills and expertise necessary to successfully carry out the proposed activities.

- **DLR** will support the **planning and establish a satellite receiving station** including attached processing and archiving functions with the possibility of a direct data flow into EO-based services and networks.
- NOA will establish sustainable links between the ERATOSTHENES CoE (ECoE), and the BEYOND Centre of Excellence, which is established in the European Research Area as a regional Copernicus node for EO-based monitoring.
- **TROPOS** will be the key partner for the **establishment of a ground based Remote Sensing station in ERATOSTHENES CoE**, providing close links between European networks and satellite validation activities.
- DEC-MTCW will provide the links to the local and governmental community and promote space issues at the national level
- **CyRIC** will contribute mainly on the establishment of the **ECoE's Digital Innovation Hub in EMMENA**; thus, CyRIC will provide support to the ECoE to develop Entrepreneurial services, a business incubator and Living Labs.
- PMOD-WRC will contribute to the successful outcome of the solar energy related objectives in EXCELSIOR.









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Why EXCELSIOR?

In our capacity as a consortium acting in the domains of Earth Obervation (EO), Geospatial Information (GI) and Space Applications:

- ✓ We are motivated by the fact that the European Commission will invest 16bn € in Space, building upon Galileo, and Copernicus.
- ✓ We see an opportunity as the Cyprus Government is investing to become full European Space Agency (ESA) member.
- ✓ We are inspired from the fact that Earth Observation (EO) has been identified by ESA experts, as one of the three domains for potential future Plan for European Cooperating States projects in Cyprus.
- ✓ We are aligned with the Smart Specialisation Strategy for Cyprus
- We are driven by the fact that the Cyprus University of Technology (CUT) has committed to invest 8M € (15 Yrs) and the additional 15M € (15 Yrs) from the GOV of Cyprus.
- ✓ We feel the responsibility to expand since Eratosthenes Research Center (ERC) is the only EO center in Cyprus (since 2007).



✓ We are excited by our mission to upgrade the ERC to the ERATOSTHENES Centre of Excellence (ECoE).

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'EXCELSIOR provides Space-based Earth Observation at a location where three Continents meet facing common challenges for making citizens and societies resilient to sustainable development





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ERATOSTHENES: Excellence Research Centre for Earth Surveillance & Space-Base Monitoring of the Environment

Needs and opportunities that have motivated us to establish an Earth Observation Centre of Excellence in Cyprus

- Aerosol and cloud monitoring superstation in the Eastern Mediterranean, Middle East and North Africa (EMMENA): strong demand for EO monitoring to provide data to evaluate the extent of pollution and climate change
- Droughts and water shortages in the EMMENA region
- **Restoration** programmes in EMMENA
- Disaster Risk Reduction
- **Regional Digital Innovation Hub** for **Earth Observation** in Cyprus to help space technology companies and innovators







Opportunities:

- The ECoE has the potential to become a **catalyst** for facilitating and enabling **Regional, European and International cooperation**.
- Capitalise on the favourable environmental, weather and climatic conditions of Cyprus to conduct cutting-edge research with impact in various sectors, including climate change, marine, solar energy, etc.
- The development of the **Government of the Cyprus space strategy** can be exploited for further EO research and applications
- Create a unique European capacity in Cyprus by mobilizing internal national assets and consolidating European EO capabilities in Cyprus to serve EMMENA. Such, currently missing, assets and infrastructures are: European Satellite Ground Stations covering EMMENA.
- Availability of **funding instruments** for EO national and European Level
- Big Data management and analytics





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R FI ENVIRONMENT RESILIENT **BIG EARTH** & CLIMATE DATA ANALYTICS SOCIETY Maintenance & Support **Operations & Data Distribution** System Administration & Storage **Remote Sensing Labs** ECoE Data Cube **Disasters Risk Reduction** Atmosphere Information Extraction Agriculture **Cultural Heritage Visual Exploration** & Visualization Marine Safety & Security Water **Crowd Sourcing** Land Energy & Data Fusion REA **Geo-informatics** Masters / PhDs (in cooperation with University) EDUCATION **Skills Development Center** Professional Training Programme **ECoE Networking & Knowledge Hub** RENAURSHIP **Product & Services ECoE Living Labs** ENTREP (ESA) Business Incubations Programmes **Asset Sharing Unit**

ERATOSTHENES COE: Digital Innovation Hub (DIH)







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ERATOSTHENES: Excellence Research Centre for Earth Surveillance & Space-Base Monitoring of the Environment

Digital Innovation Hub

Creating an ecosystem where the state-of-the-art sensing equipment, cutting- edge research, targeted education services and entrepreneurship come together. The ECoE adopts a two-axis model, as depicted below.

I. In Y axis is the value-adding process, from raw data generation, to research through professional education and finally to innovation and commercialization. It consists of are four distinct functional areas:

i. **The Infrastructure Area:** The ECoE through the governmental funding will acquire key infrastructure and equipment that will directly contribute to the Research Excellence capacity of the ECoE. The following flagship equipment will be procured by ECoE:

- Satellite data direct receiving station
- Ground-based atmospheric remote sensing

ii. **The Research Area** is responsible for the development of science and research which later on will lead into the development of ECoE services.







iii. The Education Area is considered the fuel that will sustain the development and operation of ECoE as a Regional Digital Innovation Hub. The specific activities of the Education area include:

- The Masters & PhDs hosting programme
- The Skills Development Centre
- The Professional Training Programme
- **iv.** The Entrepreneurship Area will be responsible for ensuring the sustainability of the ECoE and stimulating national and regional growth. The key units of this Area are:
 - ECoE Networking and Knowledge Hub,
 - ECoE Living Labs,
 - Space Business Incubator Programmes and
 - Asset Sharing Unit.





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Digital Innovation Hub

In X axis are the thematic clusters of the ERATOSTHENES CoE. These relate to the environment, the society, and data technology, forming the equivalent thematic clusters:

- Environment & Climate with a global applicability, having at its core the supersite for calibration/validation, and aerosol and cloud monitoring. ECoE exploits both the state-of-the-art infrastructure and Copernicus data and core services.
- **Resilient Society**, with an impact to both the public sector and the industry, focuses on research and services tailored to ensure the societies' wellbeing, make economy sectors resilient, exploit efficiently the available resources, and protect civilians and businesses from natural threats and illegal actions in respect to smuggling/refugees trafficking in the surrounding sea. The thematic cluster includes a portfolio of several research fields but the emphasis is on Disaster Risk Reduction and Access to Energy.
- Big Earth Data Analytics, tailored to EO data, to allow the discovery of new information that is hidden in the data and promote the value adding combination with non-EO data streams. The Cluster will research and develop technologies related to data mining, machine learning, visual spatio-temporal exploration of big geospatial and temporal data, semantic enrichment of EO data and products, fusing EO and crowd-sourced data generated from smart sensor technology and finally

geoinformatics.







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The ERATOSTHENES COE advocates that the Centre will be a European focal point for cutting edge Earth Observation research in five main application domains:

- Adaptation to Climate Change, by setting up an active remote sensing supersite in Cyprus for monitoring aerosols, clouds, climate, dust and pollution in EMMENA region using the relevant expertise from TROPOS.
- **Disaster Risk Reduction,** by transferring relevant expertise from NOA's BEYOND Center of Excellence for EO-based monitoring of natural disasters. Access to Energy, by combining EO data, with physical modelling and machine learning to focus on energy nowcasting, projections, and shortterm forecasting, using the relevant expertise from NOA.

Management of water resources resulting from climate change variables, including droughts, water shortages, water quality, freshwater aquifers and land desertification, using the relevant expertise from DLR.

Data management and analytics for researching explorative algorithms to 5. improve information retrieval from petabytes of remotely sensed data using the relevant expertise from DLR.





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ERATOSTHENES CoE implementation through the EXCELSIOR project







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Living Labs: Smart Water Resources Management for Irrigation









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Living Labs: Smart Water Resources Management for Irrigation



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Living Labs: Atmospheric Monitoring





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Existing 'Stakeholder Hub of ERATOSTHENES' consists more than 600 members from Europe and all over the world





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SPACE 2.0

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Commitment and support from >95 organizations

Ragional Information Network

>200 Partnerships through the preparation of research project proposals and tenders

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GROUP ON

EARTH OBSERVATIONS





OUR ACTIVITIES

Integrated use of Remote Sensing & Geoinformatics for the systematic monitoring of the environment (since 2007)





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Activities – Atmosphere

- Air Quality monitoring/management
- Air pollution
- Aerosols-Clouds-Rain measurements
- Public health
- Monitoring of extreme meteorological events
- **Dust transportation** ۲
- Climate change monitoring
- Rain rate calculations •



Range-corrected signal@1064nm, PollyXT NOA, Nicosia, Cyprus







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Activities – Agriculture

- Precision Agriculture
- Smart Irrigation water resource management
- Carbon footprint calculations
- Hydrogeological modeling
- Common Agricultural Policy applications
- Soil health
- Pest/disease control
- Food security
- Early warning systems



Damage assessment and mitigation strategies for extreme weather events





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Activities – Water

- Water quality monitoring
- Water resource management
- Water leak detection
- Managed aquifer recharge
- Hydrogeological modeling
- Groundwater modeling
- Feasibility mapping



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Activities – Disaster Risk Reduction

- Forest fire monitoring
- Burnt area mapping •
- Systematic monitoring of geohazards
- Soil erosion detection
- Soil degradation/desertification
- Floods, Landslides, Earthquakes
- Epidemics/Health
- Impact assessment •
- Disaster management •
- Early Warning Systems •
- **Decision Support Systems** •







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Activities – Cultural Heritage

- Protection of Cultural Heritage
- Loot detection
- Cultural Heritage digitisation
- **Detection of Archaeological Crops**







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This project is co-funded by the Cyprus University of Technology.





Activities – Marine Safety and Security







Selected Funded Projects (2022)





This project has received funding from the European Union's "Horizon 2020 Research and Innovation Programme" under Grant Agreement No 857510".



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Cross-Border Cooperation for Implementation of Maritime Spatial Planning - "THAL-CHOR 2"







'AI-OBSERVER' HORIZON EUROPE/ TWINNING

- Call: HORIZON-WIDERA-2021-ACCESS-03 (Twinning)
- Type of Action: HORIZON-CSA
- **Project title (acronym):** Enhancing Earth Observation capabilities of the ERATOSTHENES Centre of Excellence on Disaster Risk Reduction through Artificial Intelligence (AI-OBSERVER)
- **Duration:** 36 months (Starting date: 1 October 2022)
- **Budget:** €1,489,379











POWER OF INNOVATION AND TECHNOLOGY





Framework Partnership Agreement on Copernicus User Uptake Work Programme



















Coastal erosion due to climate change: assessment and ways to deal effectively with touristic areas of the North Aegean and Cyprus - BEACHTECH

<u>Coastal erosion</u>: a growing environmental problem. Climate projections indicate an overall trend moving towards a more vital threat, which could increase global erosion due to climate change and variability.

<u>Impact of coastal erosion</u>: degradation of tourist beaches \rightarrow threat for the sustainable development of the coastal areas of Aegean Archipelago and Cyprus.



Funded by Interreg Greece-Cyprus





CROSS II (CY4_14 / Contract 4000135546)

identification of arable CROps and CAP monitoring in cypruS through the adoption of Sen4CAP















ERATOSTHENES: Excellence Research Centre for Earth Surveillance & Space-Bas Monitoring of the Environment

Development and testing of desertification risk and pressures mapping and Assessment tool 'EDAFOS'

- The EDAFOS project will prepare through data collection, processing and interpretation methodology a Geographical Information System (GIS) tool for the assessment or desertification and land degradation risk.
- In addition, it will provide scenario analysis for the development of policies and measures to reduce risk and mitigate associated environmental and socioeconomic impacts. The EDAFOS Toolbox will support the implementation of the desertification directive and in particular it will enable the in-depth analysis of humaninduced and natural pressures and will facilitate the design of measures for combating desertification and land degradation. The tool and associated capacities will significantly increase the capacity of ACC to provide the relevant services.











Managing the Natura 2000 Network in Cyprus and Shaping a Sustainable Future

- This tender is carried out in the framework of the purchase of remote sensing • expert services for the needs of the LIFE IP Physis project - Managing the Natura 2000 Network in Cyprus and Shaping a Sustainable Future from the **ERATOSTHENES** Centre of Excellence to Forest Department.
- Purpose: to map the Akamas, Troodos, Limassol and Paphos forests using remote sensing techniques





- Conducted training for officers of the Department of Forests, for the mapping of types of habitat within Sites of Community Importance (SCI) of the NATURA 2000 network in Cyprus.
- The training focused on the use of a classification algorithm created on the Google Earth Engine platform to classify types of habitat using Sentinel-2 satellite data.



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EXCELSIOR ERATOSTHENES: Excellence Research Centre for Earth Surveillance & Space-t Monitoring of the Environment

Future Perspectives

Investment

- 112 Personnel in 7 years, 132 in 15 years
- 2000m² offices and Research Laboratories ٠
- State-of-the-art-Remote Sensing Research Infrastructure

Skills Development

- Technical excellence
- **Innovation Uptake**
- Entrepreneurial mentality

Achievement

- World class Research, Innovation, Education
- **Digital Innovation Hub** ٠
- Living Labs Ecosystem (Atmospheric, Water, Irrigation)

Engagement

CONSORTIU

- Networking Hub
- Liaison Office
- **Regional Exploitation Platform**

Infrastructure

Satellite Data Acquisition Station DAS (TBA Nov 2022)

- Cyprus: location for access station for satellite data
- Most eastern European (i.e. EU/Copernicus) station
- Near Real Time (NRT) coverage of the Eastern Mediterranean
- NRT visibility of the Middle East including coverage of the Red Sea and Persian Gulf

Ground-based Atmospheric Remote Sensing Station (tender procurement procedure completed)

- Limassol, Cyprus: Ideal natural laboratory for advanced and comprehensive field studies of climate change, aerosol-cloud-interaction, weather-precipitationdryness complex
- Representative for typical Mediterranean, even for middle East meteorological conditions and for coastal areas in the EMMENA region





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HORIZON EUROPE

European Union Civil Protection and Humanitarian Aid

EXCELSIOR ERATOSTHENES: Excellence Research Centre for Earth Surveillance & Space-Based Monitoring of the Environment



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FOUNDATION





ERATOSTHENES: Excellence Research Centre for Earth Surveillance & Space-Base Monitoring of the Environment

Vacancies at ERATOSTHENES Centre of Excellence (at the moment)

- Senior Researcher A' at the Big Earth Data Analytics Department
- Secretary, Administrative Assistant
- Communication, Events and Social Media Officer
- Assistant Accounting Officer

Deadline: 14/11/2022 @ 14:00 pm (CYPRUS TIME)

More information:

https://eratosthenes.org.cy/open-positions/





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Thank you for your attention

www.eratosthenes.org.cy www.excelsior2020.eu info@excelsior2020.eu



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University of Technology

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