





'EXCELSIOR H2020 TEAMING PROJECT

Diofantos Hadjimitsis

Coordinator of the Excelsior H2020 Teaming project Eratosthenes CoE, Cyprus-Managing Director Cyprus University of Technology-Professor Chania-Greece 18th of July 2024



Programme" under Grant Agreement No 857510'

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European Programmes, Coordination and and Development'





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Who we are?

CONSORTIUM Cyprus University of Technology







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.

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







Overview of the Centre

 A new, autonomous Centre of Excellence, namely ERATOSTHENES Centre of Excellence (<u>www.eratosthenes.org.cy</u>), of the Cyprus University of Technology (CUT) has been established through the EXCELSIOR H2020 Widespread Teaming Phase 2 project (Grant Agreement No. 857510) (<u>www.excelsior2020.eu</u>), by upgrading the existing Remote Sensing and Geo-Environment Lab that has been operating at CUT since 2007. PAGE





Our History 2007-2020

- In 2007, the 'Remote Sensing & Geo Environment Lab', 'Geodesy Lab', 'Geospatial Analysis Lab' (Eratosthenes 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
- In 2017-2018 phase 1 was implemented (ranked first) and on August 2018 business plan was submitted.
- In November 2018 the proposal (phase2) with the acronym 'EXCELSIOR' under the H2020 WIDESPREAD TEAMING was submitted.
- In 2019, the proposal (phase2) with the acronym 'EXCELSIOR' under the H2020 WIDESPREAD TEAMING was successful
 and the funding was granted!
- In 2020, ERATOSTHENES COE was established and became a legal entity through Excelsior.

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 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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What is Excelsior

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Work Programme Part: Spreading Excellence and Widening Participation, Topic: Teaming

Teaming supports:

- New Centres of Excellence or upgrading existing ones in low R&I performing countries
- Partnerships between leading scientific institutions and partner institutions in low R&I performing countries.





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Horizon 2020 Programme

'Excelsior' is H2020 Teaming Project under the Spreading Excellence and Widening , Teaming Call! Tool to upgrade our lab at the Cyprus University of Technology!



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EXCELSIOR – Upgrade RS Lab at CUT to ERATOSTHENES Centre of Excellence

- Funded under H2020 & Republic of Cyprus
- Pillar: Spreading Excellence and Widening Participation
- Work Programme Year: H2020-2018-2020
- Call: H2020-WIDESPREAD-2018-2020
- Topic: WIDESPREAD-01-2018-2019 Teaming 2
- Type of action: CSA (Coordination and support action)
- Grant Agreement number: 857510, Acronym: EXCELSIOR
- Total Budget: >38,000,000 € (15 millions from EC+ 15 from Republic of Cyprus+ 8 millions 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)

026 (EC) / 30 September 2034 (RC)

For more information visit: https://eratosthenes.org.cy/







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ECTORATE GENERAL GROWTH



Republic of Cyprus





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:

TROPOS

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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EXCELSIOR Team





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APPILIATED ENTITIES

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ERATOSTHENES

EXCELSIOR Team: Advisory board

Name	Position	Organisation
Dr. Vincent Ambrosia (M)	Associate Program Manager NASA Applied Sciences Program	NASA/California State University (USA)
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. Bianca Hoersch (F)	Chief Digital Officer	ESA Headquarters
Mr. Daniel Barok (M)	Senior Space Consultant	Independent consultant (Israel)

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Cyprus University of

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Board of Directors: Rosa Lasaponara

Advisory Board: Vincent Ambrosia













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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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Why this Consortium?

- **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 EObased 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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The Location of Cyprus?

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Cyprus lies next to the triple junction of three lithospheric plates; the African, Arabian and Anatolian plates.

Cyprus' unique geostrategic position can support Earth Observation from satellite programmes in three continents and provide valuable services in the satellite calibration and validation processes.



Example of the anticipated visibility circle of a satellite receiving station in Cyprus (red), compared to other European stations.

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Why EO in Cyprus?

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Cyprus's **unique geostrategic position** can support Earth Observation from satellite programmes in **three continents** and provide valuable services in the satellite **calibration and validation** processes.

The ERATOSTHENES CoE – with its expertise and infrastructure could further complete the existing network of international ground stations.



The **EXCELSIOR's** vision and the geostrategic position of Cyprus

Cyprus is ideally located to host the ECoE, due to its **climate**, which is characterised by **300 days of sunshine a year**, providing **excellent weather conditions** for **cloud free** satellite images!





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Why EO in Cyprus?



xcellent weather condition

Availability of cloud free images optical (passive) remote sensing

ocean

Ideal place More than 78 % are cloud free imag Calibration \Validation of satellite observations (>18 out 24 cloud free Landsat images per year)

Landsat 5/7/8 from 2000 to 2017 [database of USGS]















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Project Methodology

VEST

WP2: Establishment of ECoE

WP4:Human Resources

WP5: ECoE Resources and Infrastructures

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Excelsior Implementation

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Multi-actor approach

The ECoE as a Digital Innovation Hub provides the following distinct Multi-Actor features:

- Skills Development Programmes
- Professional Training Programmes
- Networking and Knowledge Hubs

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Regional Exploitation Platform

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• Living Labs and Business Incubation Programmes

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Why Excelsior?





'Space-based Earth Observation where three Continents meet' facing common challenges for making citizens and societies resilient to sustainable development In our capacity as a **consortium** acting in the domains of Earth Obervation (EO), Geospatial Information (GI) and Space Applications:

✓ We are motivated from the fact that the European Commission will invest 16bn
 € in Space, building upon Galileo, and Copernicus.

✓ We see opportunity in the fact that the Cyprus Government is investing to become full European Space Agency (ESA) member

✓ We are inspired from the fact the 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 pushed* by Cyprus University of Technology (CUT) that has committed to invest $8M \in (15 \text{ Yrs})$ and the additional $15M \in (15 \text{ Yrs})$ from the GOV of Cyprus

✓ We feel the responsibility since Eratosthenes Research Center (ERC) is the only EO center in Cyprus (since 2007)

✓ We are stimulated from our mission to upgrade the ERC to ERATOSTHENES Centre of Excellence (ECoE)









SMART SPECIALIZATION STRATEGY OF CYPRUS

In relation to the Copernicus trend, which provides products and services on Land, Marine and Atmosphere monitoring as well as on Emergency management, Security and Climate Change, ECoE is organized in three (3) main Research Thematic Areas, i.e. Land, Water and Air

These three (3) Research Thematic Areas of the ECoE embrace all six (6) Copernicus services and interact with the priorities of $S^{3}Cy$



EXCELSI®R



Question during interview: Are you committed to the KPIS? EXCELSIOR

Answer: YES. 100 <mark>%</mark>

- Transparency
- Teamwork
- Trust
- Consent
- Dedication

... the journey has just begun!

Limassol and Cyprus will be on the map of Space Technology!





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We are determined to implement the ECoE through Trust, Transparency and Teamwork Consent, Dedication

















AFFILIATED ENTITIES



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Industry & exploitation of services

- Services to the industry using alliances with key partners (CYTA, Cyric, Gravity,
- Leasing infrastructure to 3rd parties
- Licensing of IP
- Entrepreneurship (spin-offs royalties)
- Consulting and digital services start-ups

30 % EC projects



(1) H2020, H2030 (FP10), (2) MED: territorial cohesion and environmental protection, sustainable development. (3) LIFE+ (4) ECHO: Humanitarian Aid & Civil Protection (5) INTERREG EUROPE (6) PRIMA CALLS: from 2018 to 2028

20 % EMMENA project



- Projects with EMMENA countries through local government and EC&IFIs funding (e.g. ENI, Euro-Mediterranean cooperation, IFIs rehabilitation activities and development projects)
- Privileged access to untapped market opportunities in EMMENA due to: Cyprus location, access to EMMENA EO network and action plans through GEO-CRADLE's market analysis in areas: Food, Energy, Climate Change, Access to Raw materials;

15 % National Projects



Cyprus Research Promotion Foundation, Structural Funds, Ministry of Commerce, Public/Private sector in support to National Smart Specialisation Strategy in Cyprus

15 % ESA, GEO, Copernicus



- ESA: By 2022, Cyprus will become a full ESA member state, exploiting ESA funds.
- Copernicus cross-cutting & cross sector services (e.g. agriculture, energy) GEO, GEOSS and EUROGEOSS opportunities, UN SDGs & Sendai Framework actions

ENPI CBCMED

- How can I get a continuous situation analysis of my off-shore and coastal areas?
- 2. How can I detect oil slicks and pollution at wide areas
- How can I trace oil and gas off-shore exploitation areas
- How can I regularly monitor environmental features ?
- How can I get this fast and in 5. ready-to-use GIS format?

Third party funding routes

- Application areas that attract funds through services:
- Energy 1.
- Water resources mgt. 2.
- **Marine Safety & Security**
- Land applications 4.
- 5. Agriculture
 - **Geo-informatics**

Detailed Value proposition vs Customers Canvases

"Pains" to be addressed for Maritime Safety & Security





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Climate Change

Monitoring

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Big EO Data Analytics

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The ERATOSTHENES CoE consists of three Departments:

Environment and Climate

- Atmosphere
- Agriculture \bullet
- Water
- Land

Resilient Society

- Disaster Risk Reduction
- Cultural Heritage \bullet
- Access to Energy •
- Marine Safety and Security \bullet

Big Earth Data Analytics

- Information extraction
- Visual exploration & visualization
- Crowdsourcing & data fusion \bullet
- Geoinformatics







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Digital Innovation Hub





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Headquarters in Limassol: Near the Port













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New Premises 3.5. million euros









Investment

University of Technology

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



Data Acquisition Station (DAS)



Ground based station (GBS)

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Data Acquisition Station (DAS)

Through governmental funding ECoE has acquired key infrastructure and equipment that will directly contribute to the Research Excellence and Service capacity of the ECoE such as the Data Acquisition Station (DAS).

The DAS is being purchased and will be operational offering Commercial Services for international Business Customers in December 2025

Within EXCELSIOR, ECoE is supported – amongst others – by the **German Aerospace Center (DLR)** in establishing DAS

CYTA – as strategic partner of ECoE – will host and operate DAS





Deutsches Zentrum DLR für Luft- und Raumfahrt German Aerospace Center









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Technical Description of the Data Acquisition Station

- 9m full-motion Triband Antenna from Safran -France
- To be installed at 35°.049 longitude & 33°.284 latitude
- Simultaneous Reception in S, X & Ka Bands
- Tracking satellites orbiting as low as 400km
- Horizon visibility down to 5° elevation
- Transmit capability in S-Band (both RHCP & LHCP) for TT&C services
- Transmit EIRP up to 60dBW per polarization
- Pointing accuracy: < 0,045° rms
- Tracking accuracy: < 0,015° rms

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Cortex Low & High Data Rate Baseband equipment

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Union's "Horizon 2020 Research and Innovation





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GBS ATMOSPHERIC REMOTE SENSING STATION IN LIMASSOL: Fully operational









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CYRIC

- 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

DEC

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

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Republic of Cyprus through the "Directorate General for

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Department of Civil Engineering and Geomatics – PhD in Civil Engineering and Geomatics in EXCELSIOR thematic areas/ fully funded!

EUROPEAN UNIVERSITY OF TECHNOLOGY

Studies start in September / Apply Now!

Co-supervision with Excelsior Partners/ Universities (in English)

240 ECTS are required to obtain a Doctoral Degree.240 ECTS splitted into 8 semesters of 30 ECTS each.Maximum 60 ECTS are required in modules and minimum 180 ECTS in research.

https://www.cut.ac.cy/studies/phd/PhD+vacant+po sitions/Civil+Engineering+and+Geomatics/











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AGRICULTURE – Living Labs









- AIMING to improve their effectiveness and early adoption
- BRINGING TOGETHER: Farmers, Scientists, Policymakers, the Agri-food industry and other interested Private and Public Actors









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Exploitation and commercialisation

Identification of user needs and data collection

- Meetings with local stakeholders
- User needs
- Concept design of the EO Big Data AI management platform
- Data collection

EO Big Data AI management platform

- Handle multi-source data EO inputs
- APIs
- Monitor and assess the data in real time, through visualizations and dashboards

AI-EO risk assessment of environmental hazards in Cyprus

Earthquakes,
 landslides, soil
 erosion, forest fires,
 floods, marine
 pollution

 AI-assisted data fusion techniques Commercialisation of the exploratory project's outputs

- First combined AI-EO products
- AI-OBSERVER final workshop to stakeholders/public
- Roadmap towards
 commercialisation





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Communication Champions in the Teaming Programme











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Join Excelsior & Eratosthenes CoE

- In common proposals
- Co-design-co-develop
- Registered to follow webinars, experts talks, trainings,
- capacity buildings (upon MOU)





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8 INNOVATION

FOUNDATION

Mediterranean

HORIZON EUROPE



IN THE MEDITEDDANIEAN ADE

European Union Civil Protection and Humanitarian Aid





Vacancies at ERATOSTHENES Centre of Excellence Join our team!

More information:

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







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ADDRESS 82, Franklin Roosevelt, 3012, Lemesos, Cyprus

> **CONTACT US** +357 25 002 908



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