ERATOSTHENES Centre of Excellence

Organisation Profile, Research areas and Activities

Prof. Diofantos Hadjimitsis
Managing Director, Eratosthenes CoE
Professor, Cyprus University of Technology, Department of Civil Engineering and Geomatics
Former Vice Rector of Academic Affairs

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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.

Overview of the Centre

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

Remote Sensing & Geo-Environment Lab
Department of Civil Eng. & Geomatics
2007

ERATOSTHENES
Research Centre
2017

EXCELSIOR
2019

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Mission and vision

- **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)**.

- The Digital Innovation Hub will create an ecosystem which combines **state-of-the-art remote sensing, data management and processing technologies**, cutting – edge research opportunities, targeted education services and promotion of entrepreneurship. In order to be dynamic and innovative, the Digital Innovation Hub will be based on two major infrastructures, which are a Satellite Ground Receiving Station and a Ground-based atmospheric remote sensing station. ERATOSTHENES Centre of excellence is paving the way for Cyprus to enter the space arena.

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ERATOSTHENES Centre of Excellence

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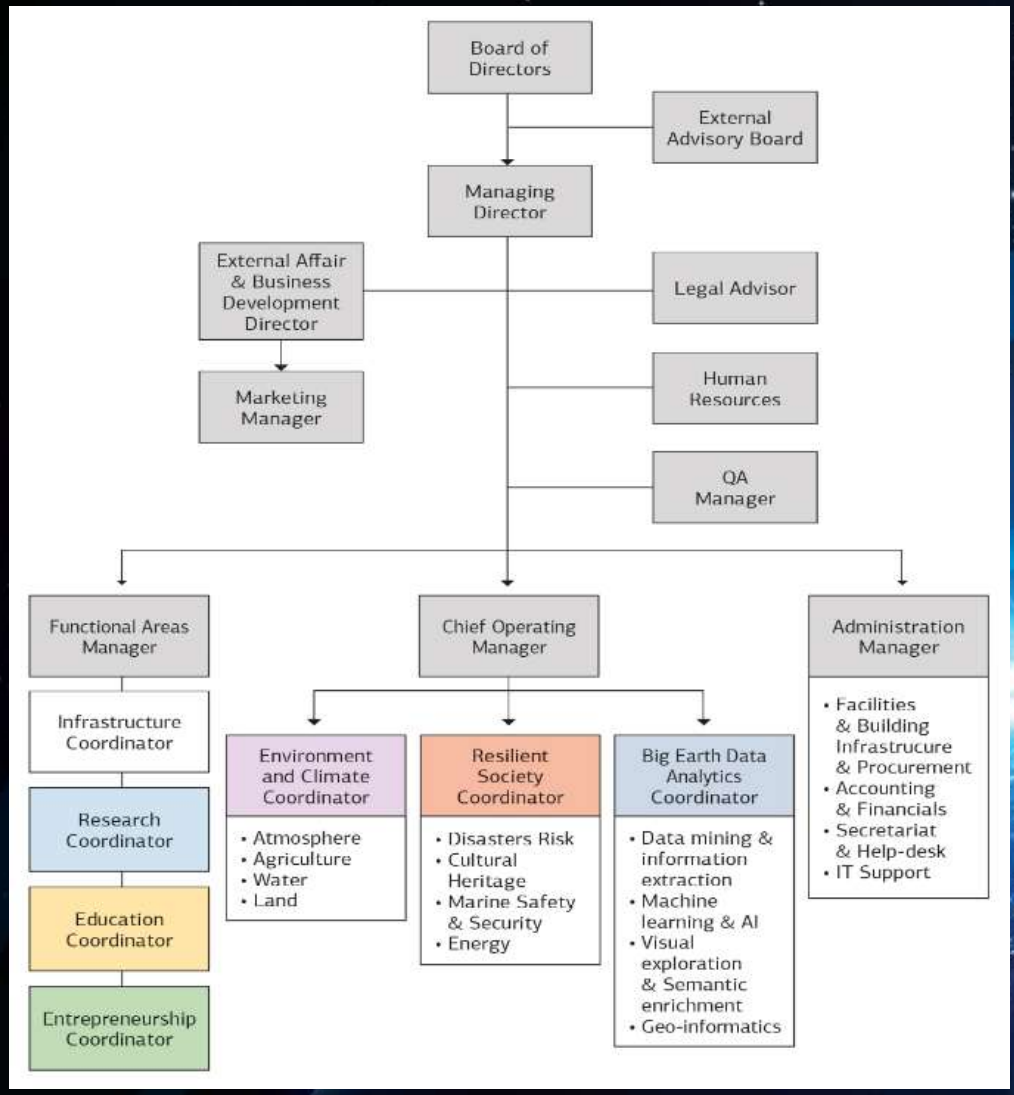
- Established in February 2020 (registered at the Department of Registrar in Cyprus).
- The ERATOSTHENES has been established as a non-profit company by Guarantee without Share Capital (CUT is the only member)
- The ERATOSTHENES is completely autonomous in its decision making, and it is managed by its own Board of Directors (7 members).



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First Synthesis of the Eratosthenes CoE Board of Directors (2020)

1. Professor Evangelos AKYLAS - Cyprus University of Technology, **Chair** ;
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 ;
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.







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Current Synthesis of the Eratosthenes Board of Directors (2025)

1. Dr Nektarios CHRYSOULAKIS – Director of Research, Foundation for Research and Technology (FORTH), Greece; **Chair** ;
2. Mrs Barbara RYAN – Former Secretariat Director of GEO (Group on Earth Observations);
3. Dr Rosa LASAPONARA – CNR, Italy;
4. Prof. Lena Halounová – Head of the Remote Sensing Laboratory/ ISPRS Secretary General;
5. Mr. Marios DEMETRIADES - Managing Director of the MD Mindset Capital Ltd; Former Minister of Communications and Works;
6. Assoc. Prof. Tasos Georgiades – Cyprus University of Technology ;
7. Asst. Prof. Efthyvoulos Kyriacou – Cyprus University of Technology.

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EXECUTIVE COMMITTEE

Prof. Diofantos G. HADJIMITSIS
Managing Director

Dr. Silas MICHAELIDES
Chief Operating Manager

Dr. Kyriacos THEMISTOCLEOUS
External Affairs & Business Development Director

Asst. Prof. Nicholas KYRIAKIDES
Education Coordinator

Assoc. Prof. Christos DANEZIS
Infrastructure Coordinator

Quality Assurance Manager

Dr. Kyriacos NEOCLEOUS

Administration Manager

Dr. Andreas CHRISTOFE

Functional Areas Manager

Prof. Andreas ANAYIOTOS

Research Coordinator

Dr. Marios TZOUVARAS

Deputy Department Coordinators

Environment & Climate
Dr. Christiana PAPOUTSA

Resilient Society
Dr. Christodoulos METTAS

Big Earth Data Analytics
Dr. Michalis MAVROVOUNIOTIS

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Research Departments

Dr Christiana Papoutsa — *Deputy Coordinator*

- **Dr Rodanthi-Elisavet Mamouri** — *Leader Atmosphere*
  - Dr Argyro Nisantzi — *Researcher*
  - Athina Savva — *Assistant Researcher*
  - Maria Poutli — *Assistant Researcher*
  - Dr Giorgos Kotsias — *Remote-Sensing Data Synergy Scientist*
  - Konstantinos Chrysostomou — *Assistant Researcher*
  - Dr Hossein Panahifar — *Post-Doc Researcher*
  - Francesco Scarlatti — *Assistant Researcher*
- **Assoc. Prof. Menelaos Stavrinides** — *Leader Agriculture*
  - Assoc. Prof. Loukas Kanetis — *Researcher*
  - Eleni Loulli — *Researcher*
  - Marianna Hadjichristodoulou — *Assistant Researcher*
  - Volha Dubovik — *Assistant Researcher*
  - Thrasos Stylianou — *Assistant Researcher*
  - Eirini Nikolaou — *Assistant Researcher*
  - Stavroula Dimitriadi — *Assistant Researcher*
  - Ashish Kallikkattil Kuruvila — *Assistant Researcher*
  - Ilias Machairas — *Assistant Researcher*
  - Maria Prantsidou — *Assistant Researcher*
- **Dr Ioannis Varvaris** — *Leader Land*
  - Dimitrios Koumoulidis — *Assistant Researcher*
  - Fotini Kavazi — *Assistant Researcher*
  - Roland Richard Sier — *Project Manager*
  - Orestis Rizopoulos — *Project Manager*
- **Dr Marinos Iliadis** — *Leader Water*
  - Eleni Neofytou — *Assistant Researcher*
  - Christos Theocharidis — *Assistant Researcher*

Dr Christodoulos Mettas — *Deputy Coordinator*

- **Dr Marios Tzouvaras** — *Leader Disaster Risk Reduction*
  - **Dr Constantinos Panayiotou** — Leader Floods
    - Josefina Kountouri — *Assistant Researcher*
    - Spyroula Georgiou — *Assistant Researcher*
  - **Maria Prodromou** — Leader Fires
    - Dr Renos Votsis — *Researcher*
    - Dr Evagoras Evagorou — *Researcher*
    - Dr Thomaida Polydorou — *Researcher*
    - Dr Neophytos Stylianou — *Researcher*
    - Demetris Christofi — *Researcher*
    - Kyriaki Fotiou — *Assistant Researcher*
    - Marina Doukanari — *Assistant Researcher*
- **Dr Dante Abate** — Leader Cultural Heritage
  - Dr Konstantinos Roussos — *Post-Doc Researcher*
  - Christodoulos Demetriou — *Assistant Researcher*
  - Kyriakos Toumbas — *Assistant Researcher*
  - Valentinos Evripidou — *Assistant Researcher*
  - Andreas Livadiotis — *Assistant Researcher*
  - Georgios Leventis — *Researcher*
  - Dr Mahmoud Mardini — *Project Manager Assistant*
  - Dr Maria Cristina Salvi — *Post-Doc Researcher*
  - Marcela Szalanska — *Assistant Researcher*
- **Dr Christodoulos Mettas** — Leader Energy
  - Georgia Charalampous — *Assistant Researcher*
- **Dr Christodoulos Mettas** — Leader Marine Safety & Security
  - Despina Makri — *Assistant Researcher*
  - Eleftheria Kalogirou — *Assistant Researcher*
  - Dr Muhammad Amjad Iqbal — *Post-Doc Researcher*

Dr Michalis Mavrovouniotis — *Deputy Coordinator*

- **Dr Charalambos Chrysostomou** — *Leader Data Mining & Information Extraction*
  - Stelios Neophytides — *Researcher*
  - Konstantinos Christofi — *Assistant Researcher*
  - Dr Georgios Zalidis — *Researcher*
  - Christina Ioanna Saroglaki — *Assistant Researcher*
- **Dr Maria Anastasiadou** — *Leader Visual Exploration & Semantic*
  - Dr Sofoclis Zambirinis — *Post-doc Researcher*
  - Neofytos Kokkinos — *Assistant Researcher*
- **Dr Charalambos Chrysostomou** — *Leader Crowd Sourcing & Data Fusion*
  - Nicos Christoforou — *DAS Operations Engineer*
  - Jude Brian Ramesh — *Assistant Researcher*
  - Michalis Aristotelous — *Assistant Researcher*
- **Dr Evagoras Evagorou** — *Leader Geo-Informatics*
  - Marina Doukanari — *Assistant Researcher*

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Administration

Dr Andreas Christofi
Administration Manager

- **Facilities & Building Infrastructure & Procurement**
  -  Panayiota Samara — *Secretary, Administrative Assistant*
- **Accounts**
  -  Kleopatra Georgiou — *Accounting and Financial Officer*
  -  Chrystalla Koukkidou — *Assistant Financial and Accounting Officer*
- **HR**
  -  Theofilos Antoniou — *HR Officer*
  -  Marina Papadopoulou — *Educational Officer*
- **IT**
  -  Anthoulis Fotiou — *Information Technology System Administrator*
- **Communication, Events and Social Media**
  -  Eliana Iliofotou — *Communication, Events and Social Media Officer*
  -  Elena Petrou — *Communication, Events and Social Media Officer*
- **Project Resources**
  -  Eleni Nikita — *Project Resources Planning Officer*

Technology Transfer Office

Prof. Andreas Anayiotos
Coordinator of Technology Transfer Office (INECoE)

Andreas Andreou
Business Development and Technology Commercialization Officer

Thomas Nikidiotis
Full Stack Software Developer

Business Development Office

Dr. Kyriacos Themistocleous
Coordinator of Business Development Office

Neal Peter Becket
Business Development Officer

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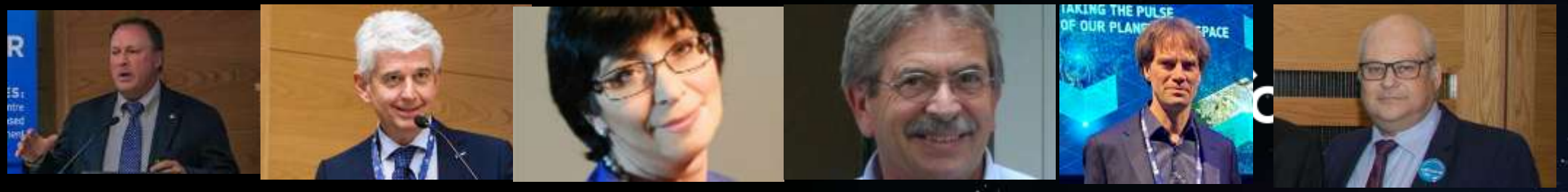

External Advisory Board

Name	Position	Organisation
Mr. Vincent Ambrosia (M)	Associate Program Manager NASA Applied Sciences Program	NASA/California State University (USA)
Mr. 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/ ISPRS 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. Benjamin Koetz (M)	Head of Long-term Action Section, Climate Action, Sustainability and Science Department	European Space Agency, ESA-ESRIN
Mr. Daniel Barok (M)	Senior Space Consultant	SpaceFarma (Israel)

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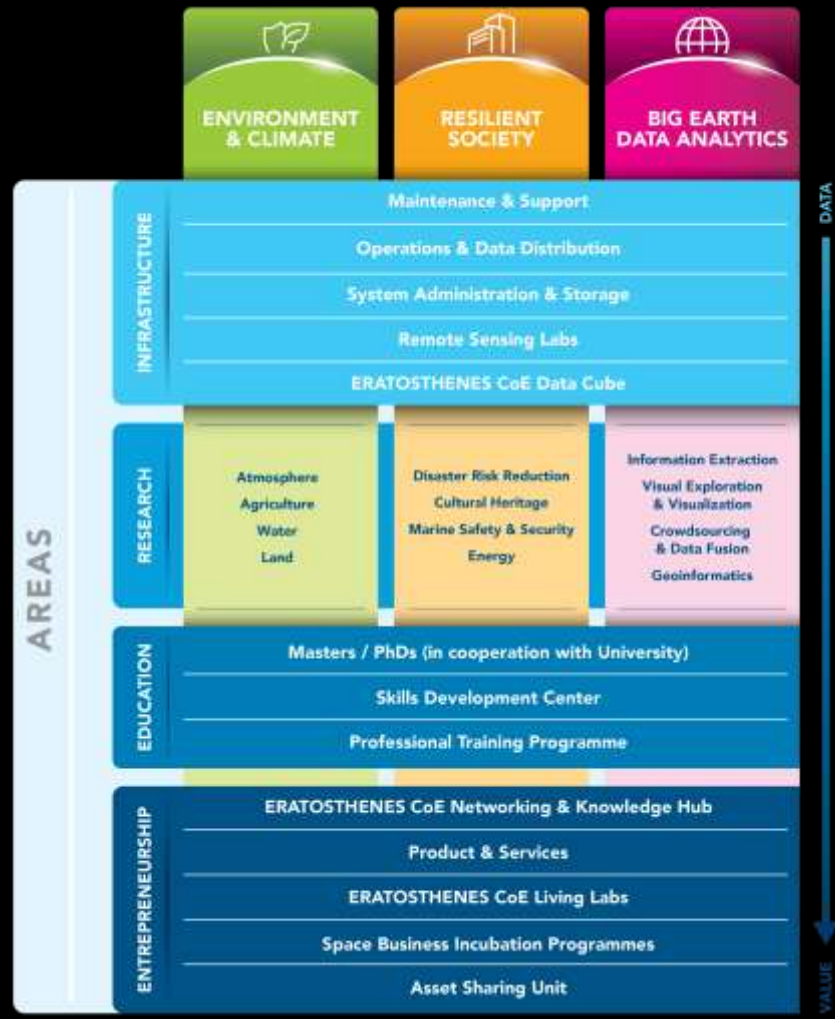
The ECoE consists of three Departments:

- **Environment and Climate**
  - Atmosphere
  - Agriculture
  - Water
  - Land
- **Resilient Society**
  - Disaster Risk Reduction
  - Cultural Heritage
  - Marine Safety and Security
  - Energy
- **Big Earth Data Analytics**
  - Information extraction
  - Visual exploration & visualization
  - Crowd sourcing & data fusion
  - Geoinformatics



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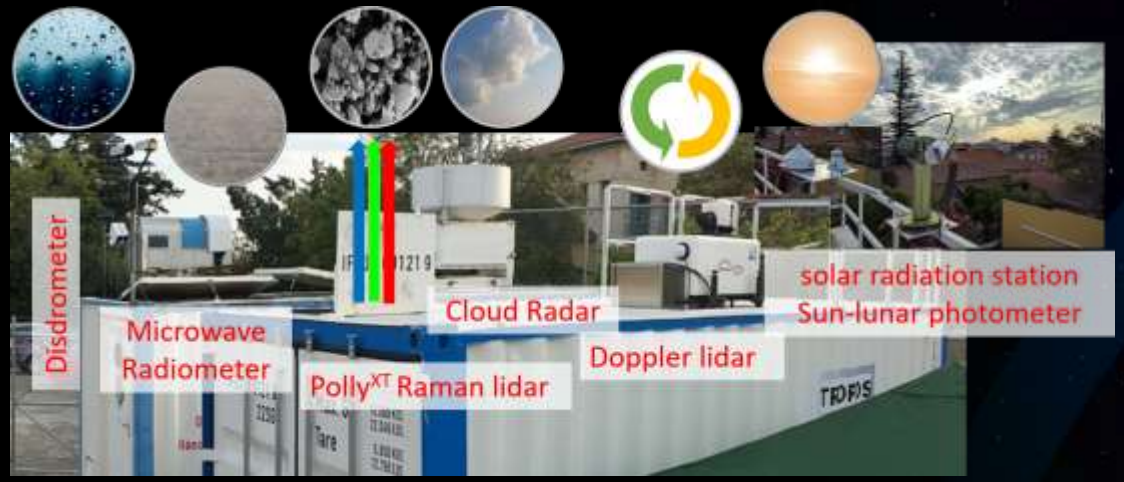
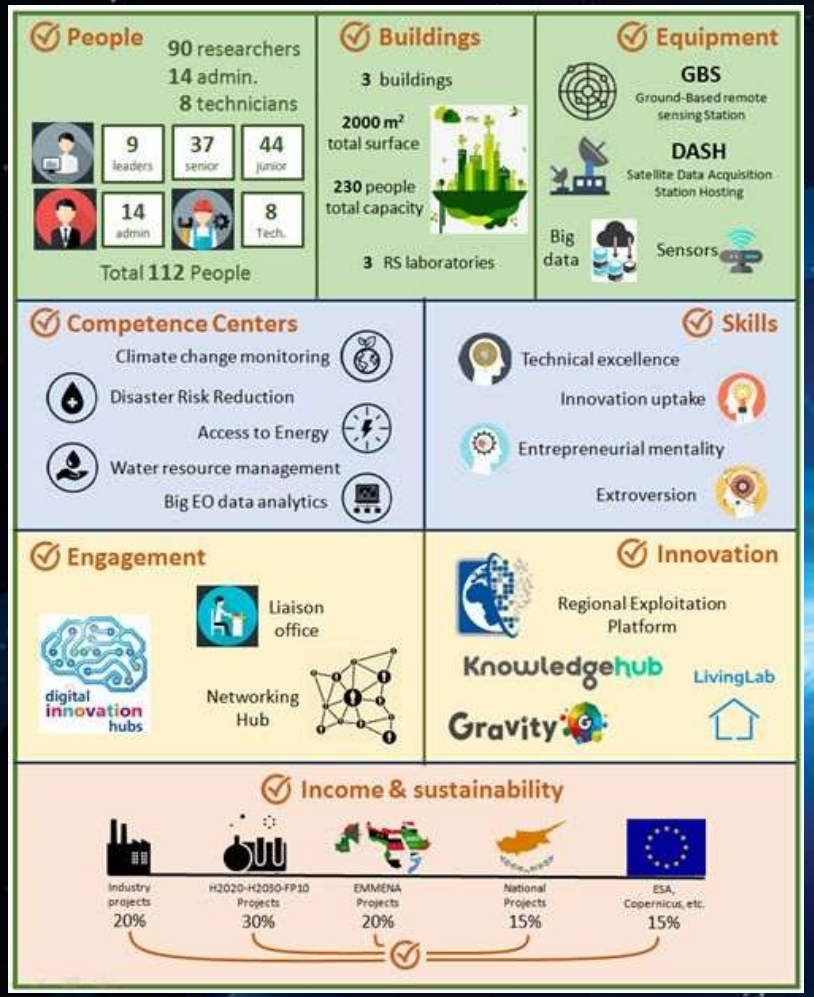
Investment

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





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Infrastructure

Cyprus Atmospheric Remote Sensing Observatory (CARO)

- the ERATOSTHENES Centre of Excellence (ECoE) has acquired **a series of high-quality instruments to obtain long-term measurements of cloud and aerosol properties, precipitation, and related atmospheric characteristics in diverse climate regimes of Cyprus**.
- The Atmospheric Cluster of the Department of Climate and Environment of the ECoE coordinates the **Cyprus Atmospheric Remote Sensing Observatory (CARO).** CARO as a **national facility consists of a multi-instrument platform that is unique with the latest modern standards and is only available in few regions globally.**
- The CARO's instruments are continuously in operation to obtain long-term measurements of cloud and aerosol properties, precipitation, and related atmospheric characterization in the region's diverse climate regimes.
- This important milestone was completed in **October 2024**.

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Infrastructure

ERATOSTHENES Earth Observation Data Acquisition Station (DAS)

- ERATOSTHENES Centre of Excellence is in the process of establishing **the first Earth Observation Data Acquisition Station (DAS) in Cyprus.**
- **The DAS** will be equipped with **a three-band feed and capabilities for simultaneous reception of all three bands (S, X and Ka) making it suitable to support current as well as future missions.**
- **The station will be hosted on one of CYTA's fully developed teleports.**
- **The proposed infrastructure will consist of State-of-the-Art facilities for acquisition, processing and storage of data.** Data can be securely transported through Cyta's extensive fiber network that offers interconnectivity to major European and Global Hubs.

Loading...

Estimated date: June 2025

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Collaborations >600 Organizations & EXCELSIOR >100 Committed Organizations

>40 MoU agreements

NGI · L-Università ta' Malta · POLITECNICO MILANO 1863 · CYRIC · MARITIME CYPRUS · LINASSOL CHAMBER OF COMMERCE & INDUSTRY · ECECT · GEOFEM · motus · CELLOCK · UNITED NATIONS Office for Outer Space Affairs · UNIForest · European University Cyprus · CERIDES · NOVATEX SOLUTIONS.EU · Geomatic Technologies

National Support and Commitment from 19 Governmental Departments

WOD TAV · DEPARTMENT OF PUBLIC WORKS · TNO · Cyprus Ports Authority · DEPARTMENT OF ANTIQUITIES CYPRUS · CYPRUS DEPARTMENT OF METEOROLOGY · invest Cyprus

Networks

isprs · Mediterranean Regional Information Network · NASA · Copernicus Academy · UNOOSA · UN-SPIDER · ACTRIS · EARLINET · nereus · EARSC · FAB SPACE 2.0 · GEO GROUP ON EARTH OBSERVATIONS

CYTA, the national telecommunication authority, provided also a significant commitment for hosting the ground satellite receiving antenna in their land for 15 years (10,000 sq.m land with LoC of 200K€)

cyta

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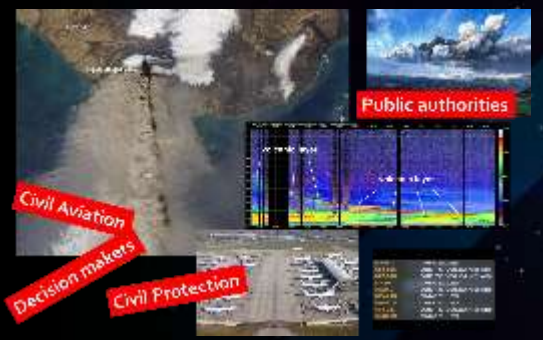
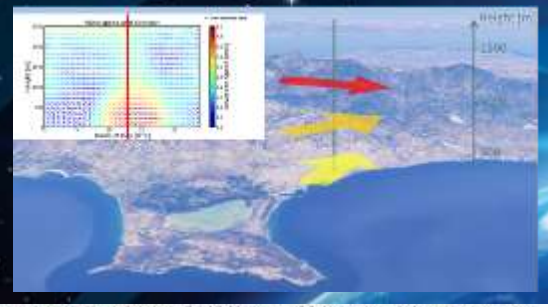
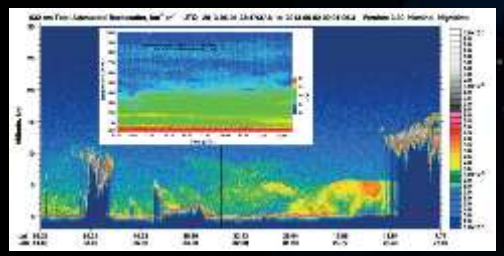
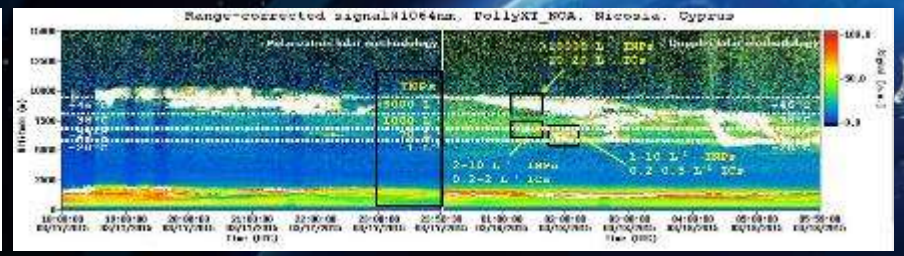
ATMOSPHERE – Activities

- Air Quality and Air pollution monitoring
- Aerosol-Clouds-Precipitation Interaction
- Atmospheric Dynamics and Wind
- Monitoring of Extreme Atmospheric Events
- Dust storms and Dust intrusion
- Climate change monitoring
- Atmospheric model Validation & Assimilation
- CAL/VAL Activities for Satellite Mission
- Planning ACTRIS National Facilities
- Aerosol and Cloud Remote Sensing Observational Platforms









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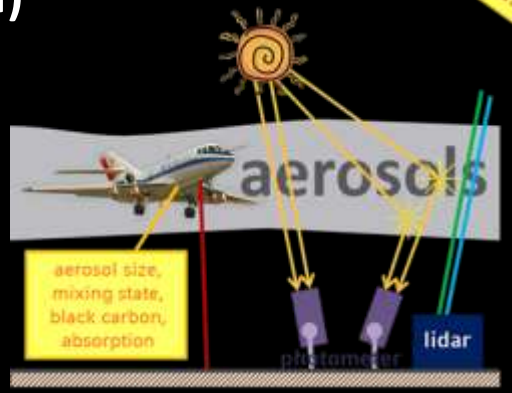
ATMOSPHERE – Experience (International collaborations & field campaigns):

BACCHUS-CHARMEX campaign (CUT-TROPOS-Cyl)

Cy-CARE (CUT-TROPOS)

CREATE campaign (CUT-FMI)

A-LIFE (CUT-TROPOS-UVienna- DLR- Cyl)



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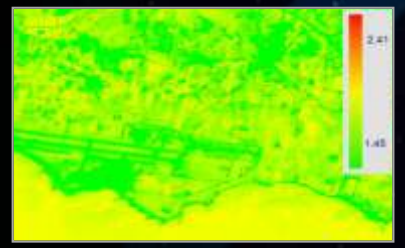
AGRICULTURE – Activities

- Precision Agriculture
- Smart Irrigation water resources management
- Carbon footprint calculations
- Hydrogeological modeling
- Common Agricultural Policy applications
- Soil health
- Pest/disease control
- Food security / Food safety
- Early warning systems
- Damage assessment and mitigation strategies for extreme weather events



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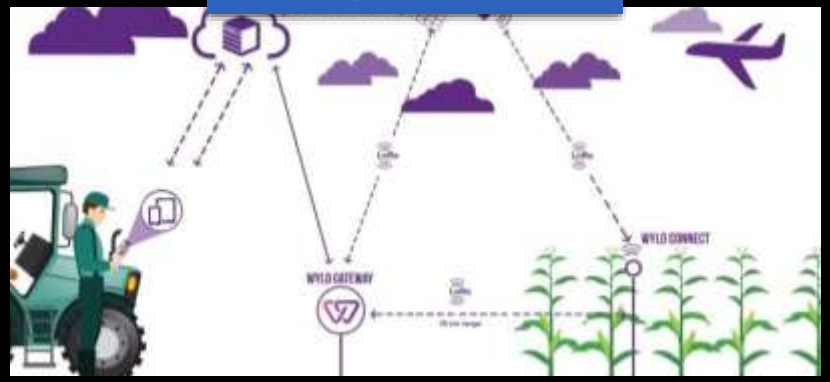
AGRICULTURE – Living Labs

Smart Water Resources Management for Irrigation & Precision Agriculture

Technology-enhanced Agriculture



- ECOSYSTEM to co-design, monitor and evaluate new and existing agricultural practices and technologies
- 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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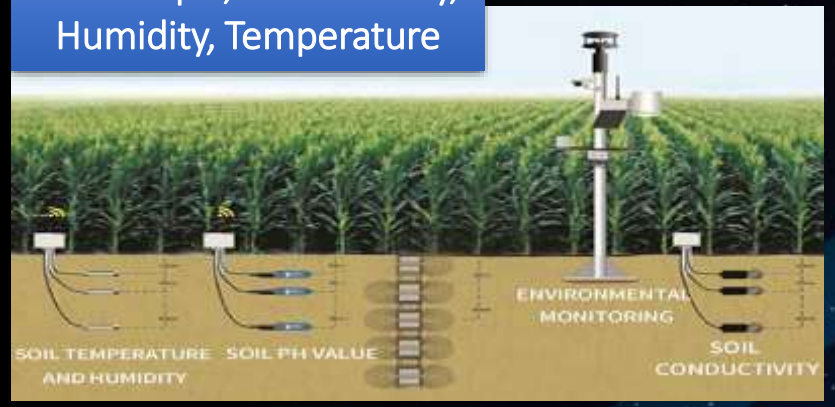
AGRICULTURE – Living Labs

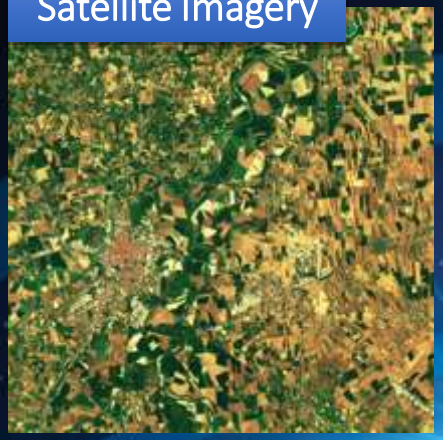
Smart Water Resources Management for Irrigation & Precision Agriculture

UAV Imagery

IoT: Soil pH, Conductivity, Humidity, Temperature



Satellite Imagery



Cloud Computing Infrastructure
Real-Time Data
Meteorological Data

Precise Agriculture through Living Labs

Spectral Signatures

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PRECIRR

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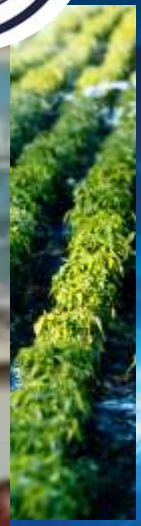

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Entrepreneurship

PRECIRRI: Precise Irrigation tool

Transforming Agriculture

Empowering Sustainability through **Smart Irrigation** Solutions. A platform combining AI, Machine Learning and ground-truth data to deliver sustainable water management by providing precise irrigation recommendations

We address water scarcity, to reduce agricultural costs, and promote operational excellence for farmers in water-stressed regions

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WATER – Activities

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

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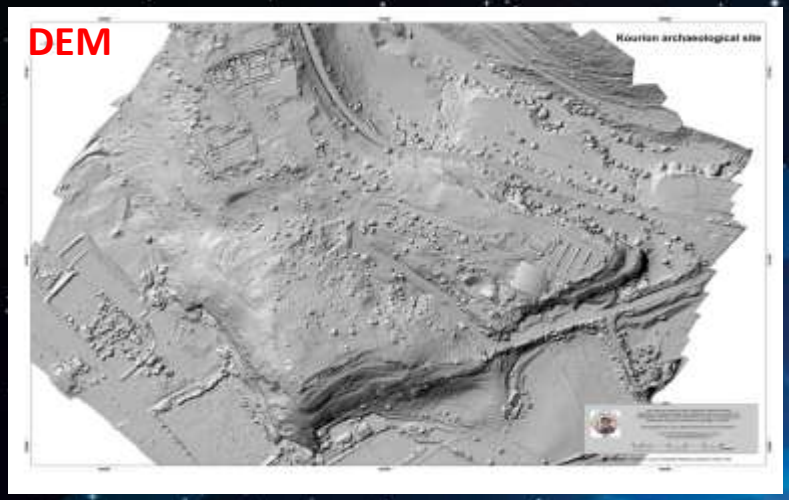
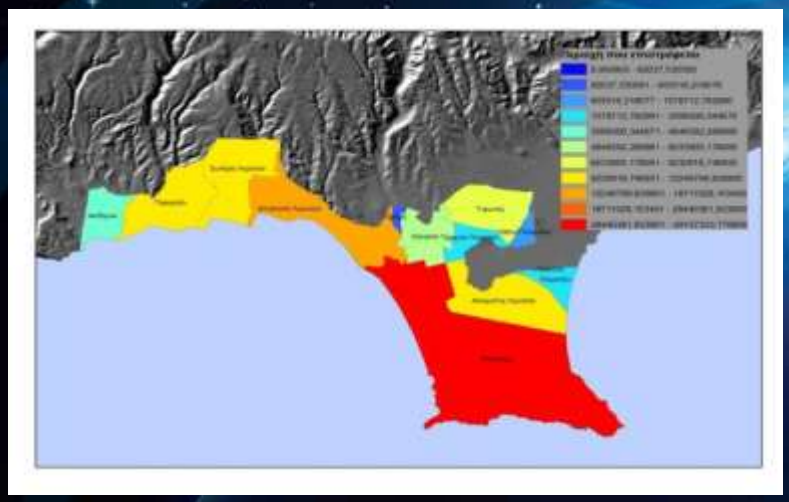
LAND – Activities

- Soil health
- Land Cover/ Land Use changes
- Urban sprawl monitoring
- Real Estate
- Urban heat island
- Spatial planning
- Urban and regional planning
- Land Management Information systems
- DEM generation
- Photogrammetric applications





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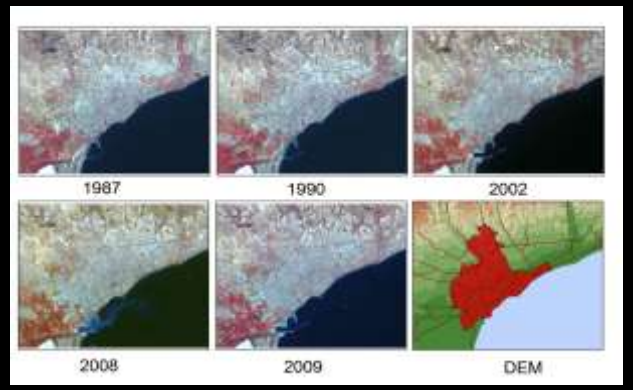
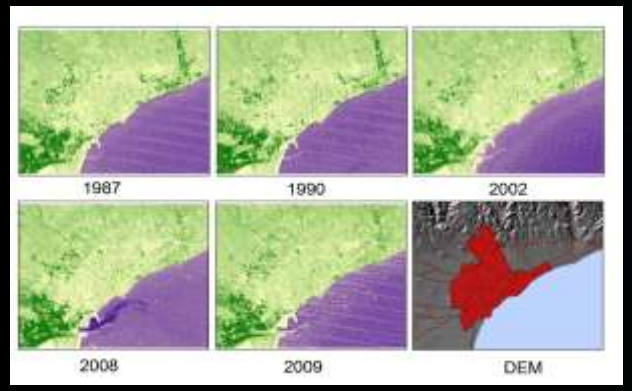
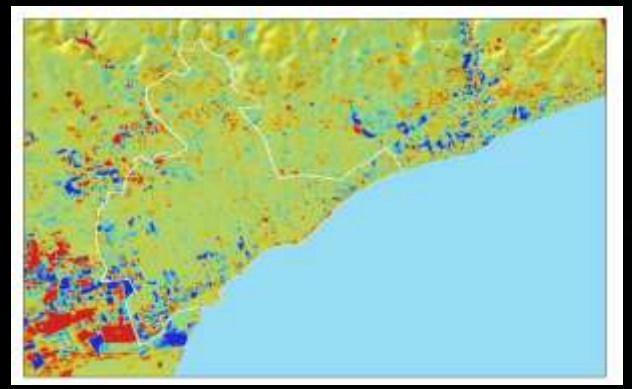
LAND – Examples

Limassol District Area Land Cover Changes (1987– 2009)







Study the urban heat island effect in Cyprus based on both multi-temporal satellite and meteorological data

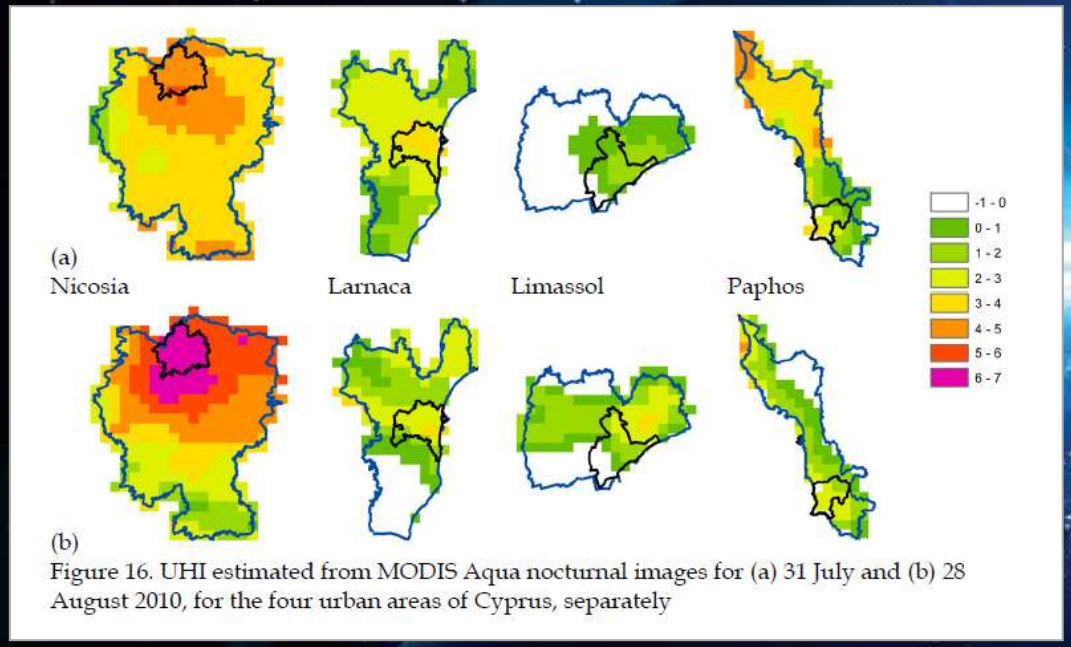


Figure 16. UHI estimated from MODIS Aqua nocturnal images for (a) 31 July and (b) 28 August 2010, for the four urban areas of Cyprus, separately

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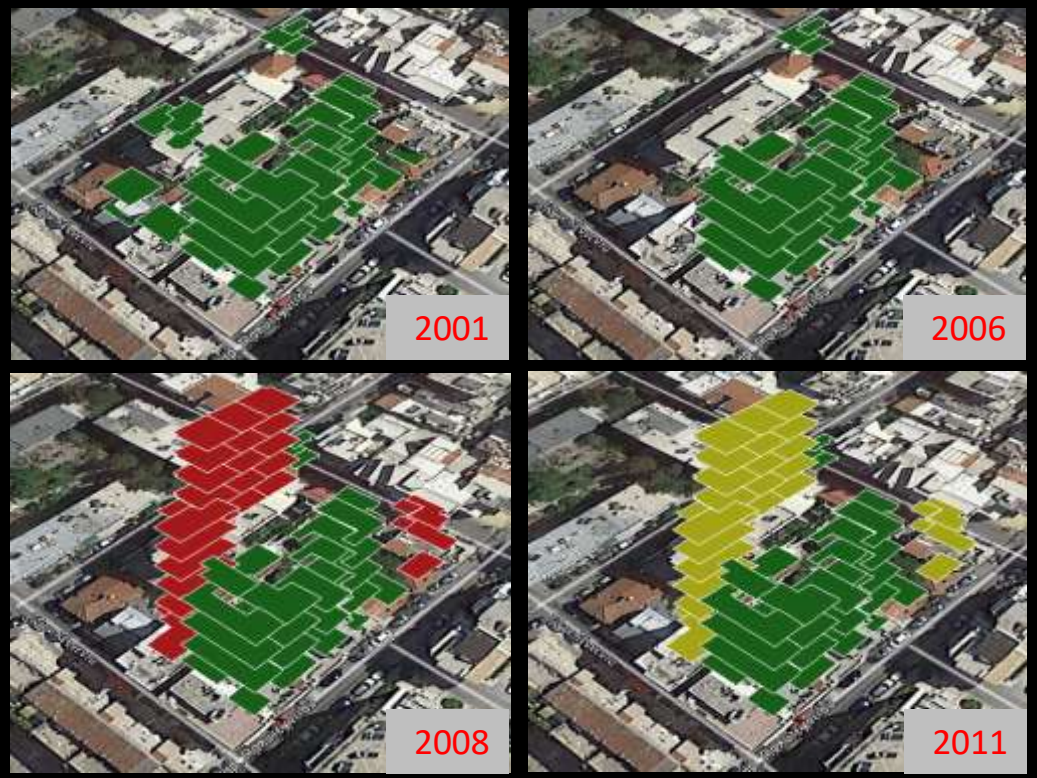
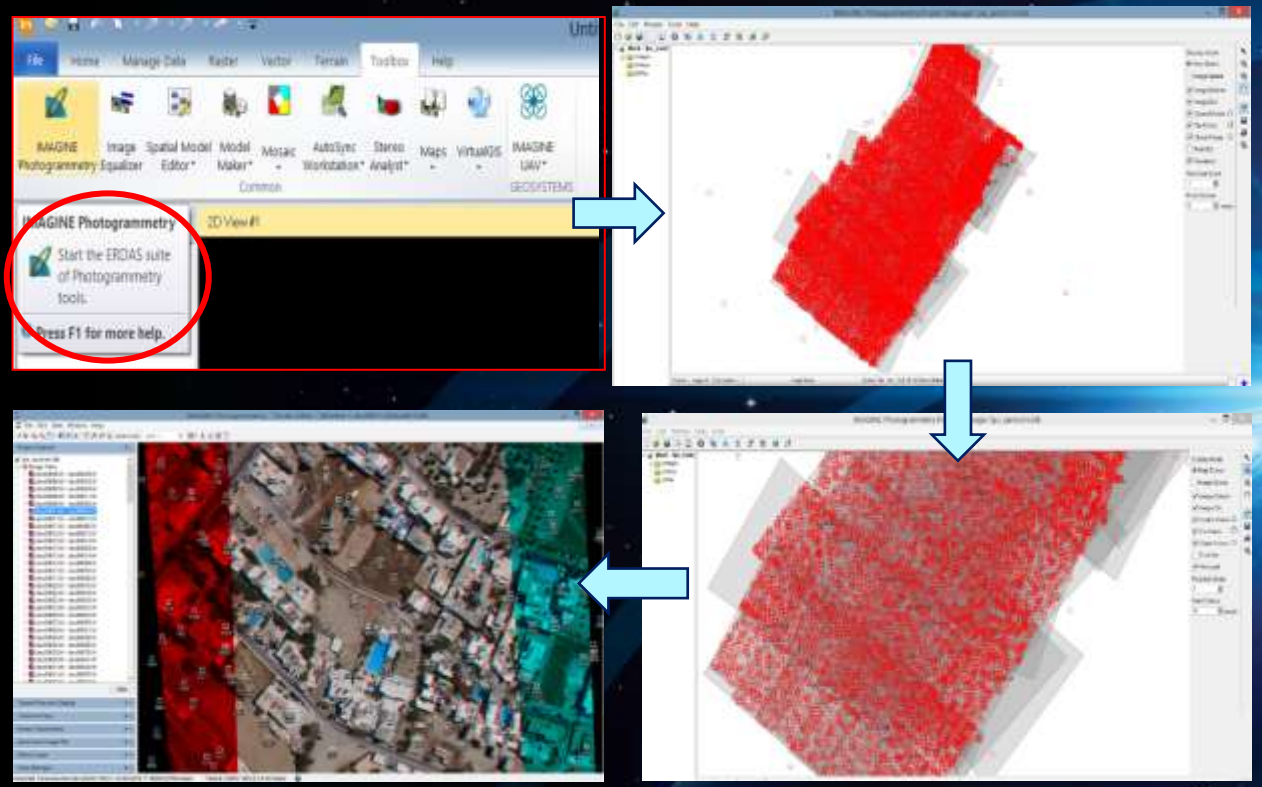
LAND – Examples

Land Management Information Systems



Mapping of semi-urban areas



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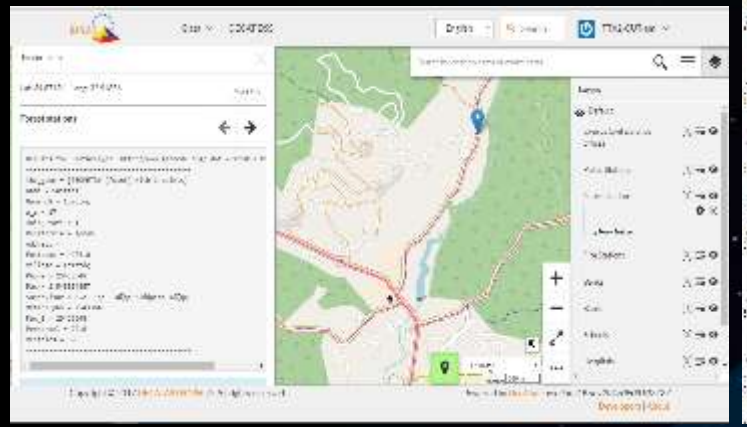
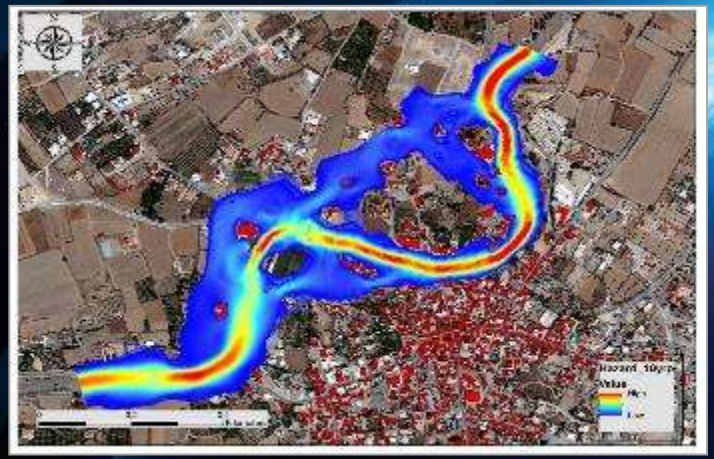
DISASTER RISK REDUCTION – Activities

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





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Research

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- Promote the use of space tools for disaster risk reduction in the EMMENA region and all over the World.
- Work together with UNOOSA/UN-SPIDER in:
  - Emergency response.
  - Disaster risk reduction and management.
  - Capacity-building on space-based technologies for disaster management.
  - Technical advisory support.
  - Dissemination of methods and results from Earth Observation.

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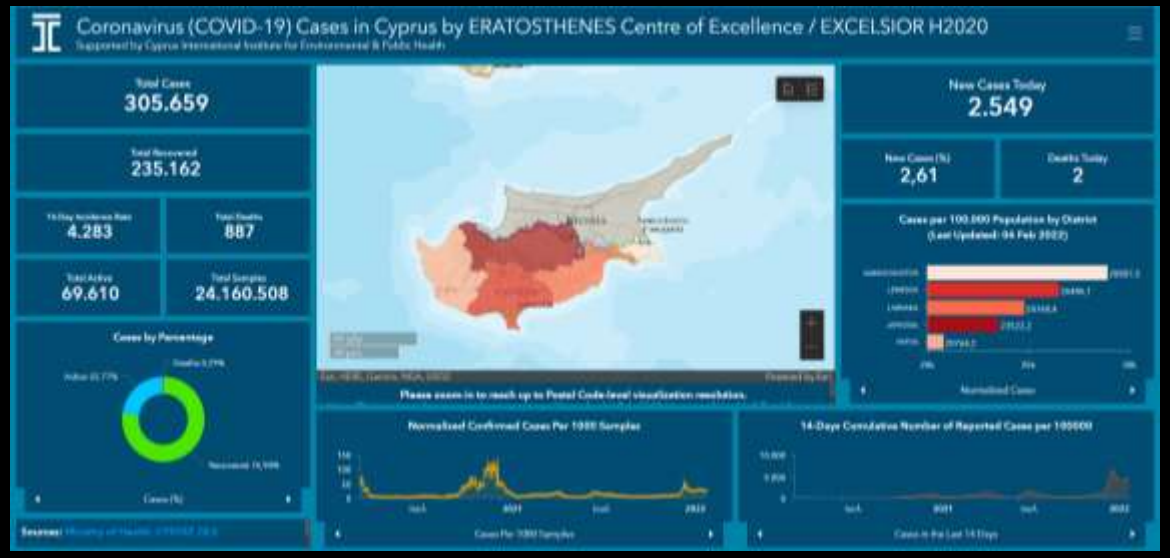
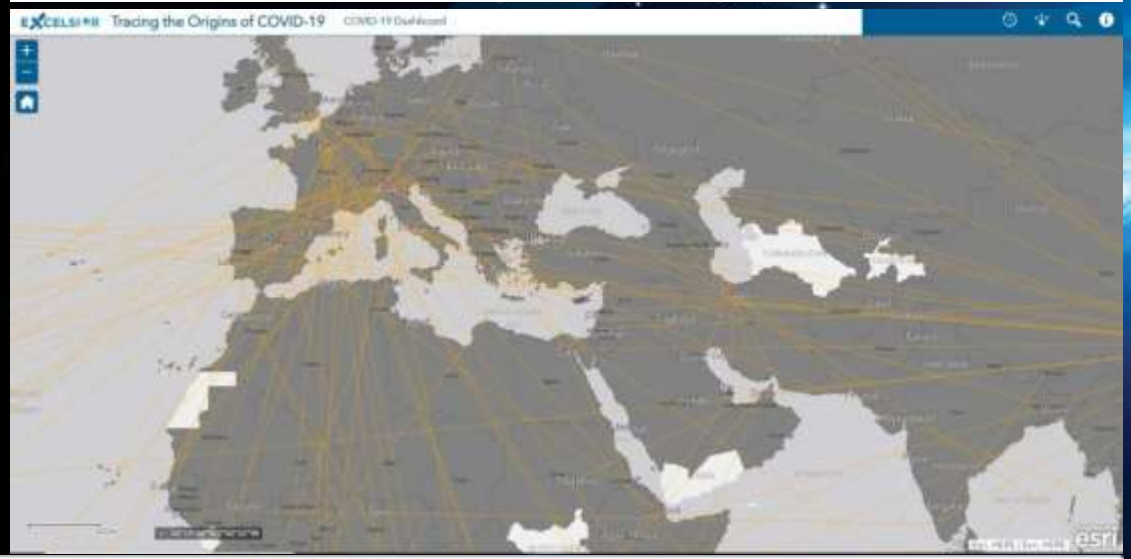
COVID-19 Observatory/Dashboard

- WebGIS platform
- Record COVID-19 cases geographically providing useful statistics.
- Trace the origins of COVID-19 pandemic.





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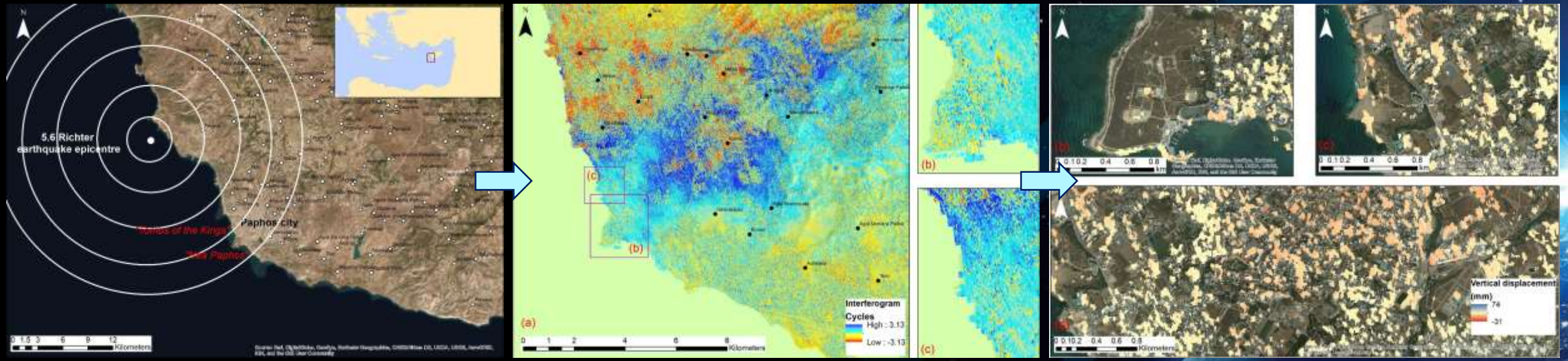
DISASTER RISK REDUCTION – Earthquakes/Landslides

- **Earthquake impact assessment and mapping** after seismic events using satellite data such as Sentinel-1, Sentinel-2, Landsat-8, etc.



~cm- to mm-level relative land displacement and velocity determination

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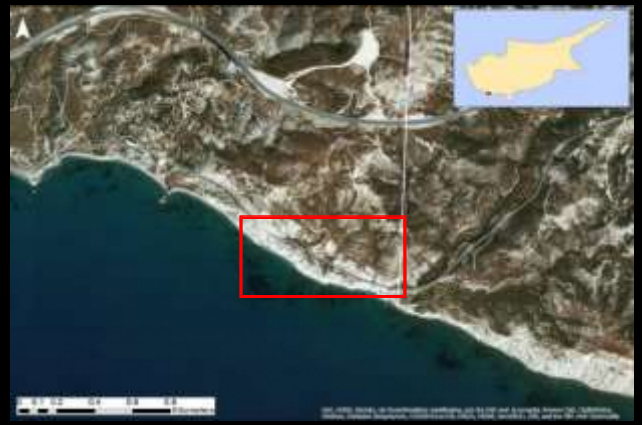
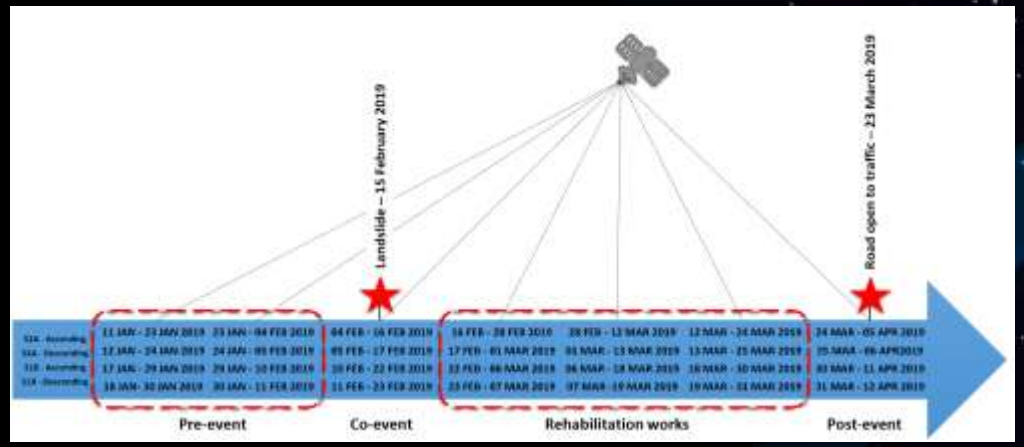
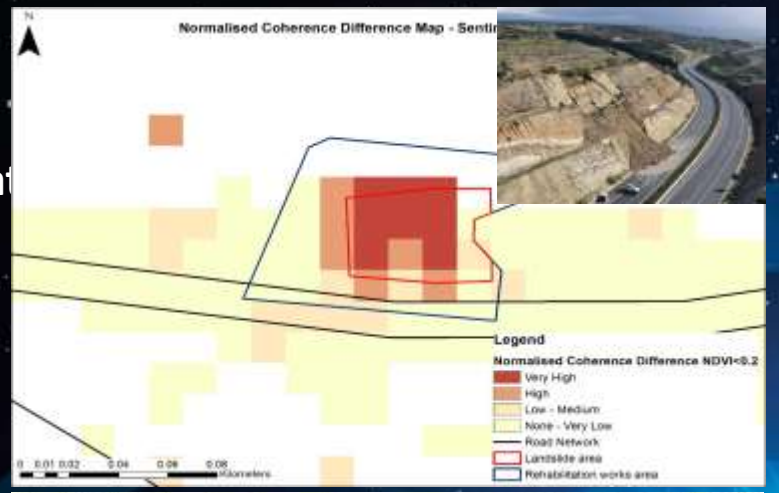
DISASTER RISK REDUCTION – Earthquakes/Landslides

n and mapping after rainfall events using time series sa







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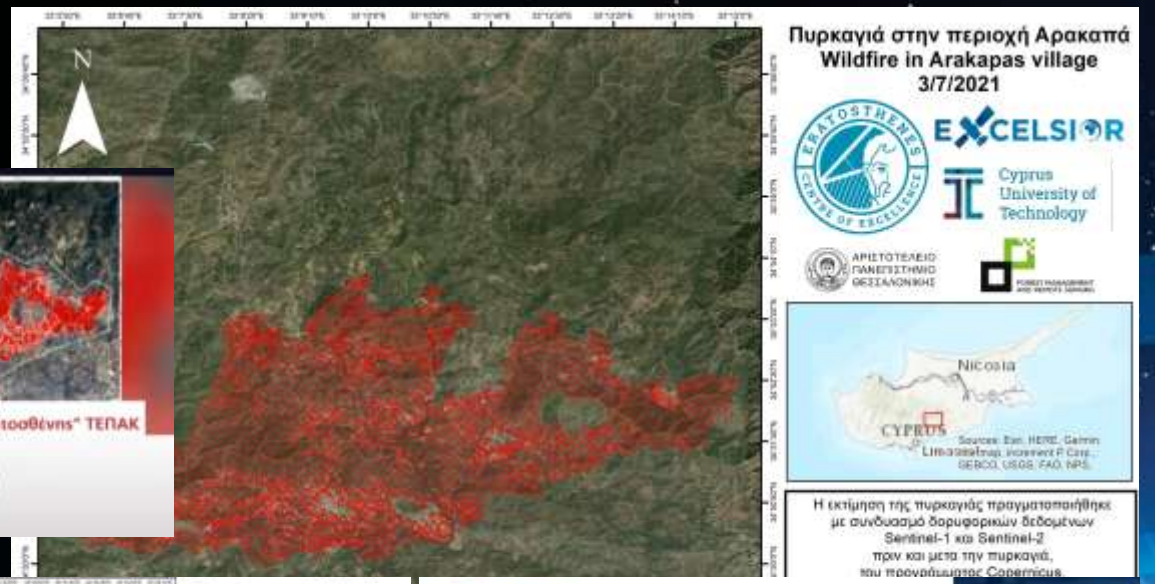
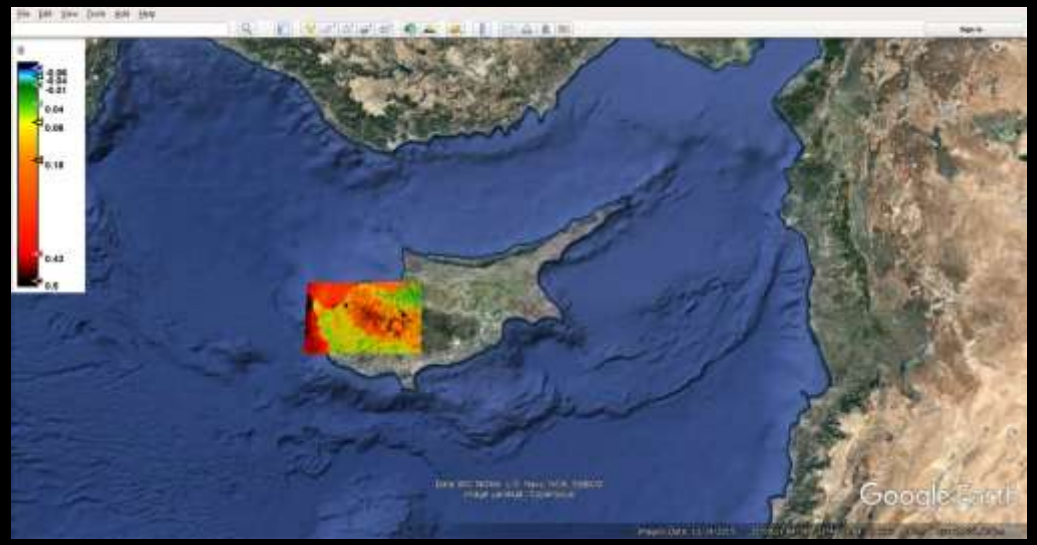
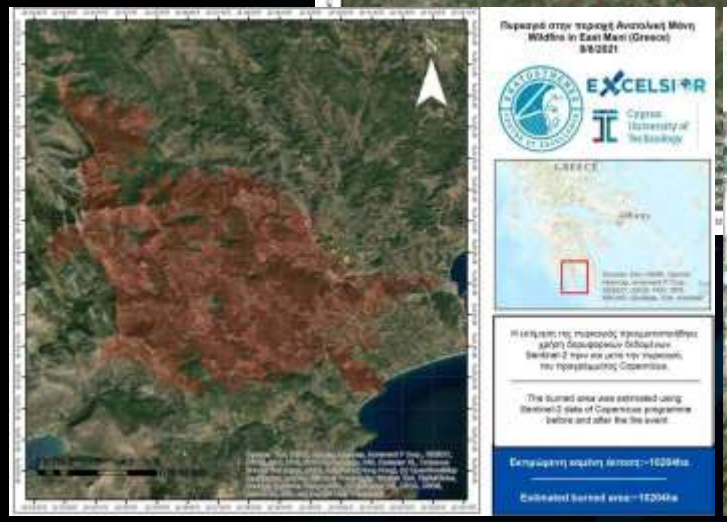
DISASTER RISK REDUCTION – Forest Fires

- **Burnt area estimation and mapping** fire events using satellite data such as Sentinel-1, Sentinel-2, Landsat-8, Planet







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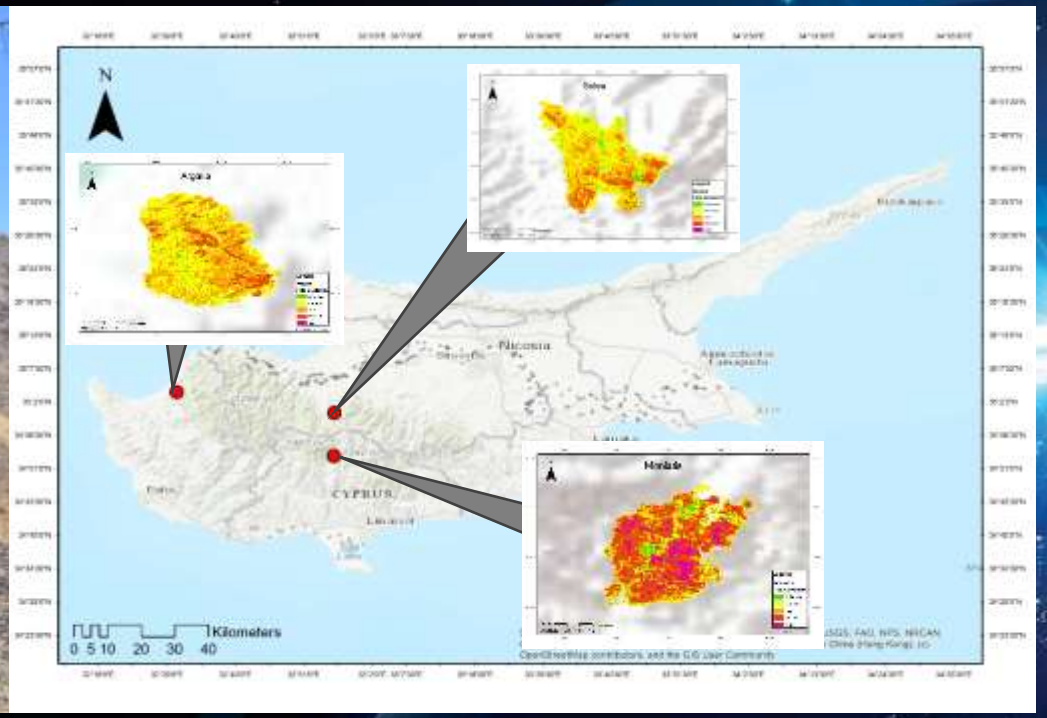
DISASTER RISK REDUCTION – Forest Fires

Field measurements for the estimation of the Composite Burn Index (CBI)

Fire severity estimation using Differenced Normalized Burn Ratio (dNBR)



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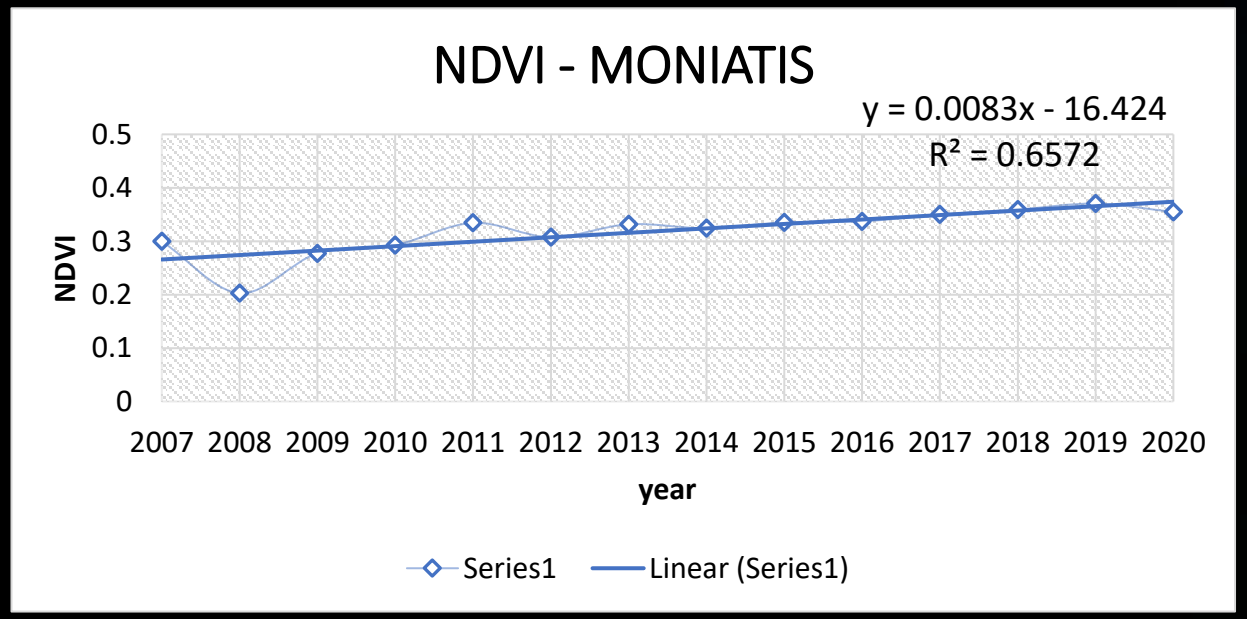
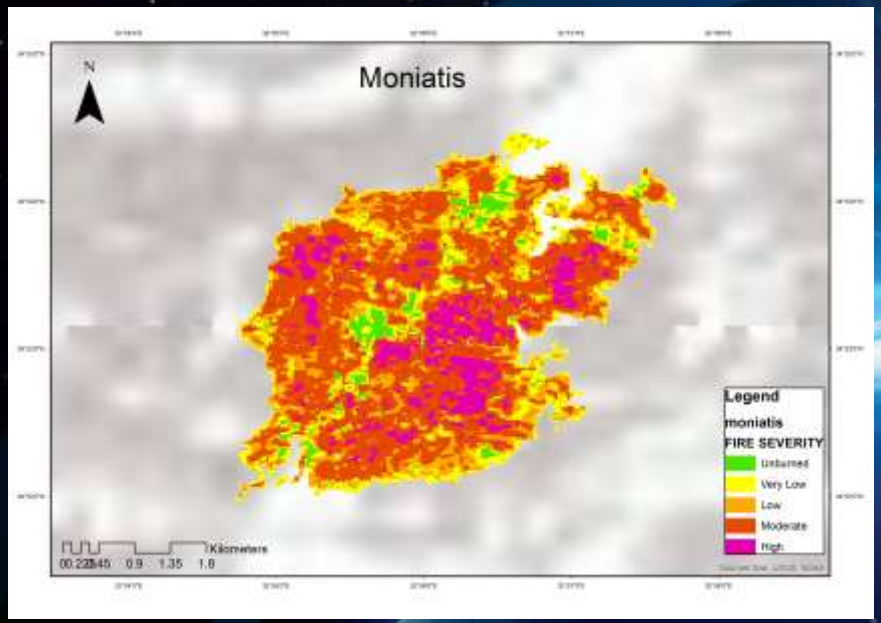
DISASTER RISK REDUCTION – Forest Fires

Time series analysis for the estimation of the forest regeneration after fire events





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DISASTER RISK REDUCTION – Forest Fires

Active fire Detection

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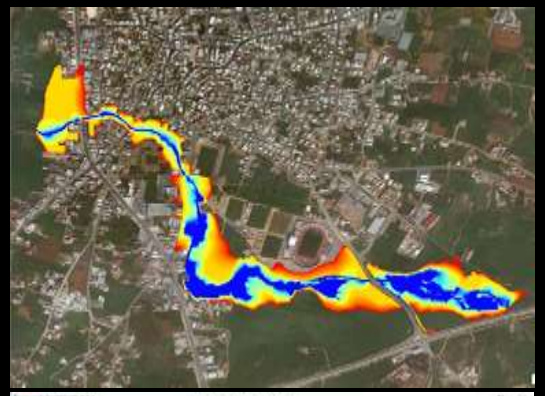
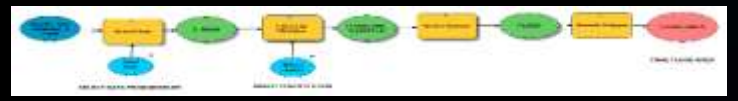
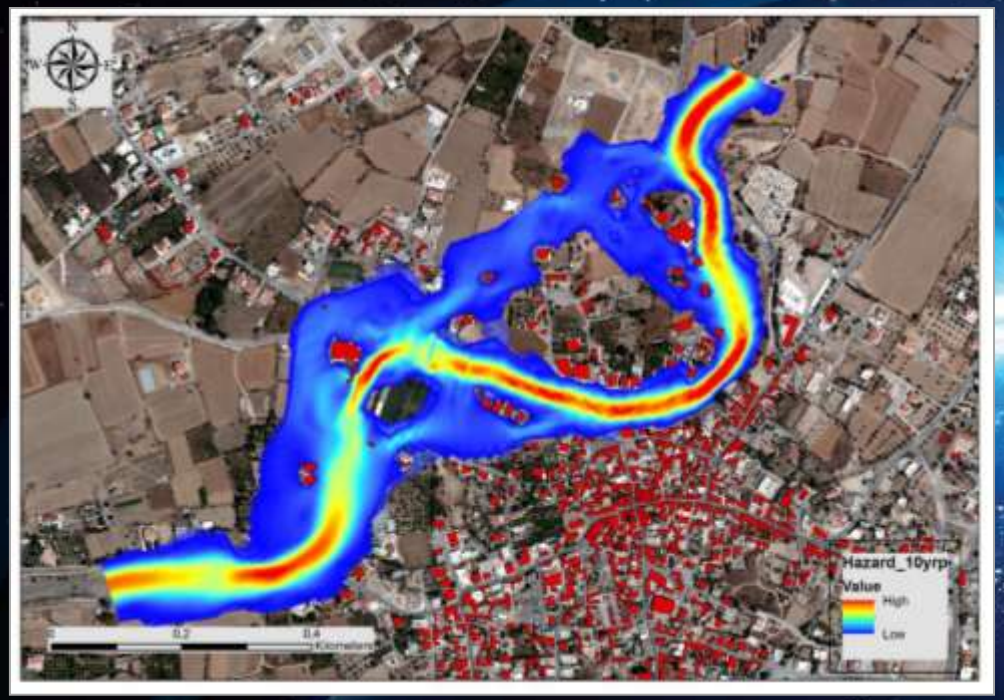
DISASTER RISK REDUCTION – Floods

Dynamic flood models





Integrated Use Of Satellite Remote Sensing And Hydraulic Modeling For The Flood Risk Assessment At a Catchment Scale In Cyprus



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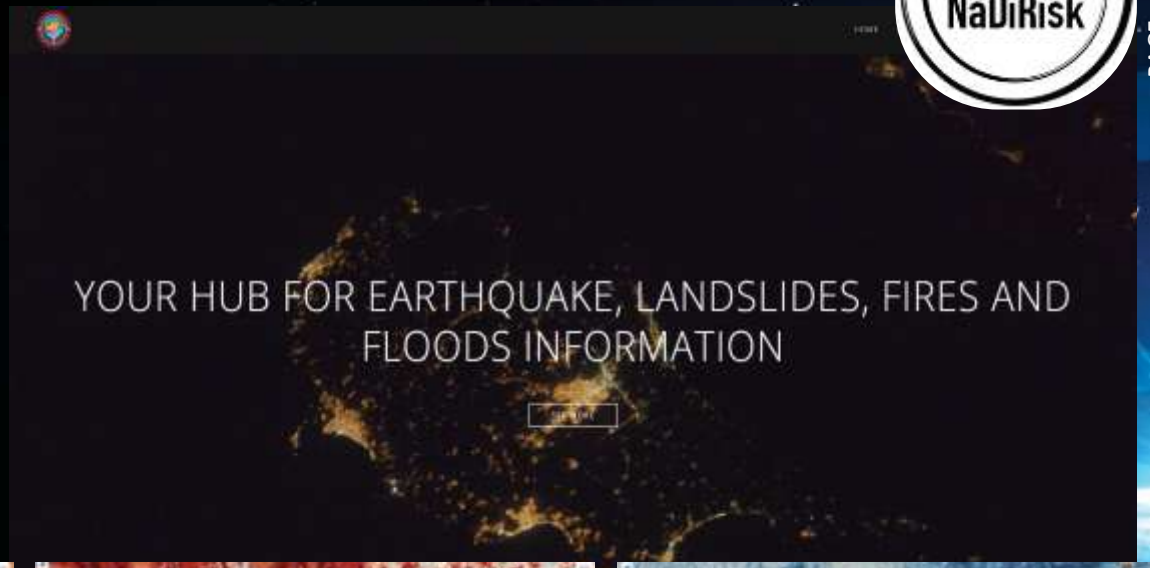
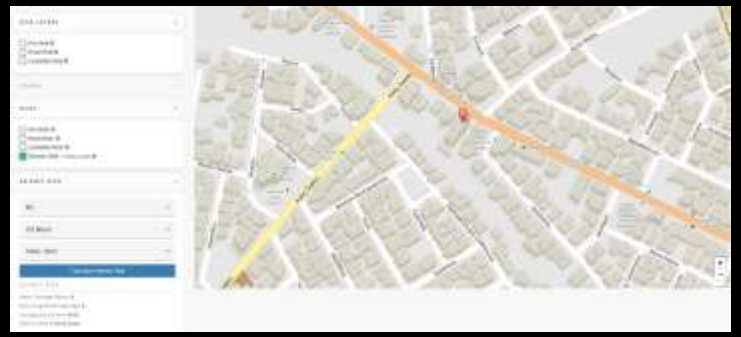
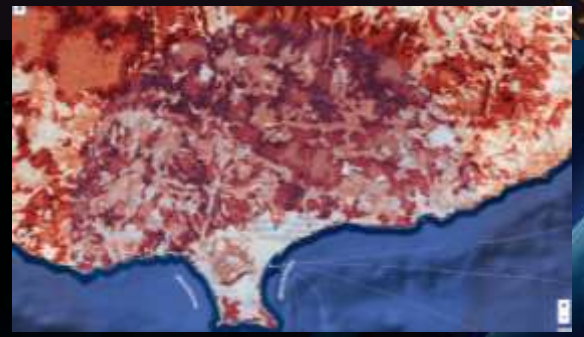
NADI-RISK: Natural Disaster Risk Assessment tool

Use of **Earth Observation** and **geospatial data** to provide **risk and vulnerability assessment** for:

- Earthquakes
- Landslides
- Forest fires
- Floods







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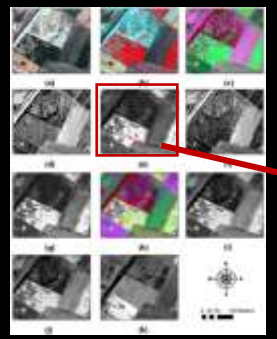
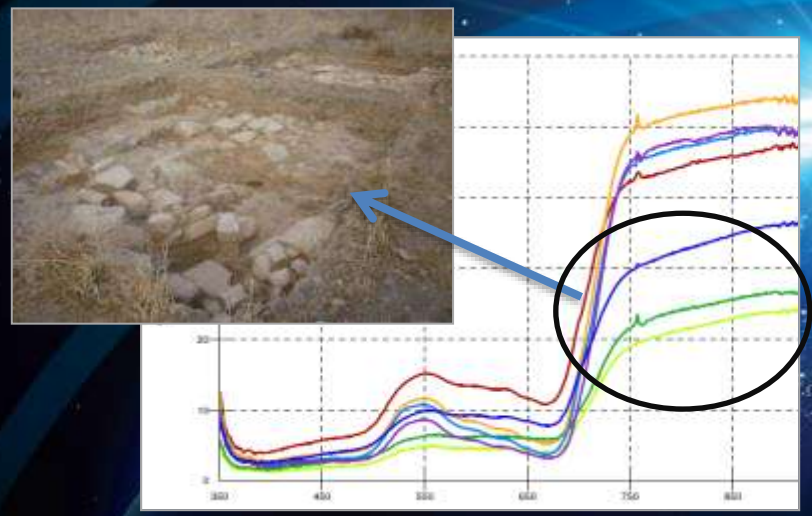
CULTURAL HERITAGE – Activities

- Risk assessment of Cultural Heritage from natural and anthropogenic hazards
- Protection of Cultural Heritage
- Cultural Heritage digitization (3D models)
- Archaeolandscape assessment and modelling
- Study of unexcavated areas
- UAV photogrammetric applications

Fusion of Remote Sensing data





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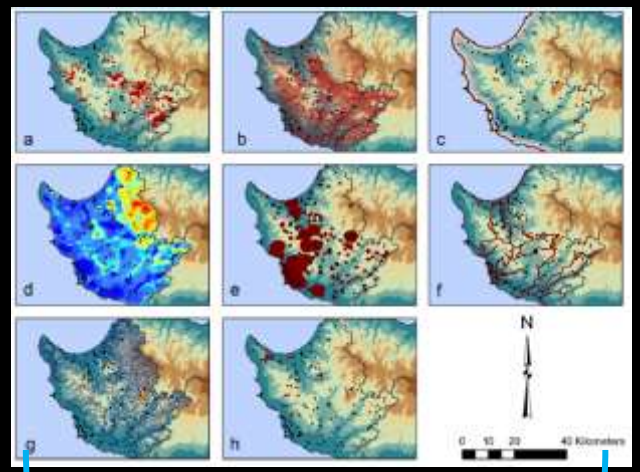
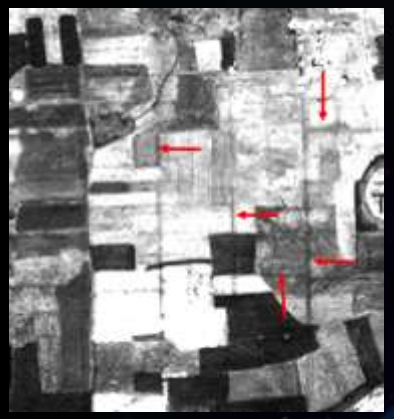
CULTURAL HERITAGE – Examples

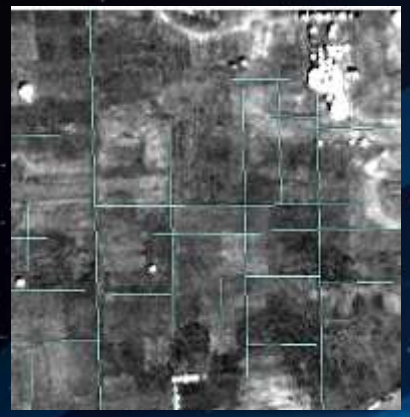
Risk assessment of CH



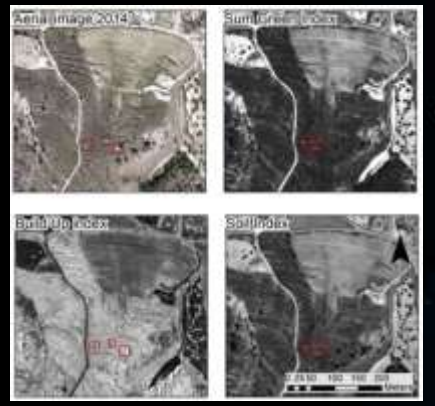
Assessment of multi-risks exposure on Cultural Heritage sites

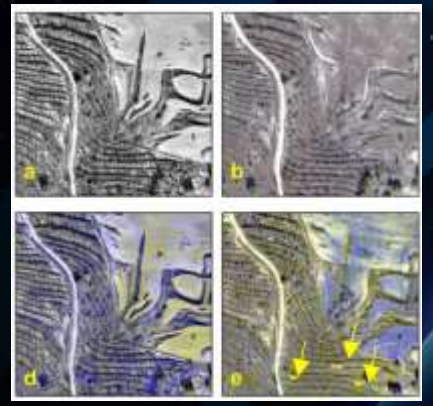
EO on Cultural Heritage





Detection of unexcavated structures on cultural heritage sites using vegetation indices derived from EO services.





Looting of cultural heritage sites based on indices derived from multispectral images.

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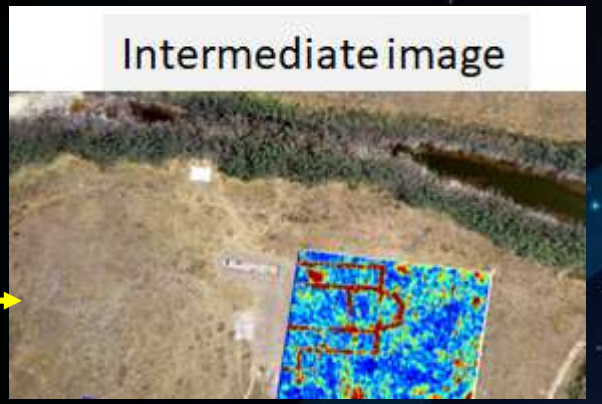
CULTURAL HERITAGE – Examples

Monitoring excavation and non-destructive mapping of Cultural Heritage sites

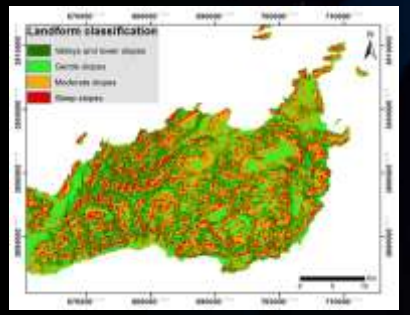
Non excavated archaeological site

Excavated archaeological site

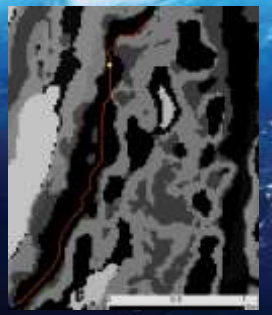


Geophysical prospection for the identification of buried sub-structures to be excavated

Water management planning of Cultural Heritage sites



Conjunction of geomorphometric information (e.g. landform types) and ancient water resources (e.g. cisterns, aqueducts) to model ancient water routes.



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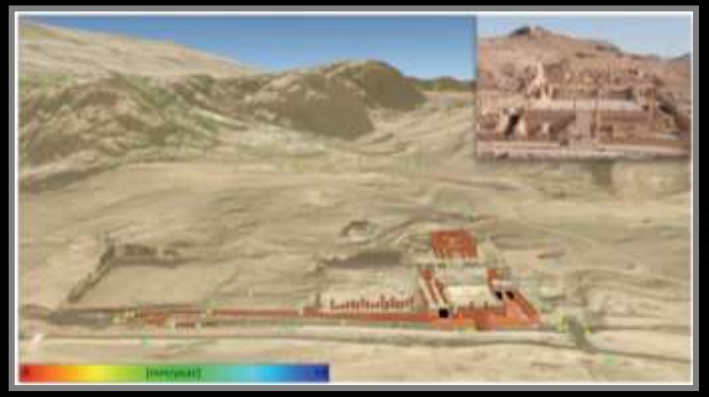
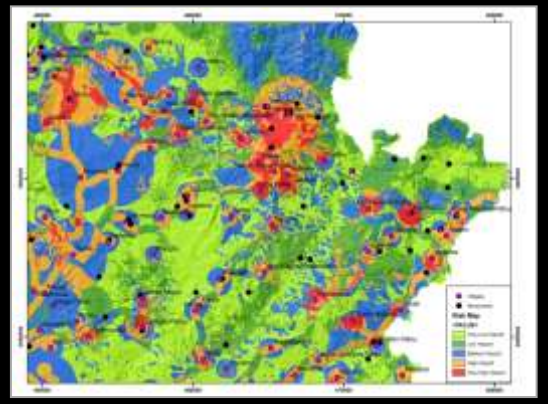
CULTURAL HERITAGE – Examples

Protection of European CH from Geo-hazards

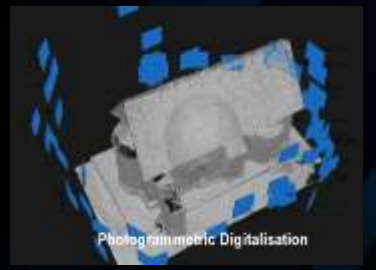


CH management



Study of unexcavated areas

3D Models from UAV



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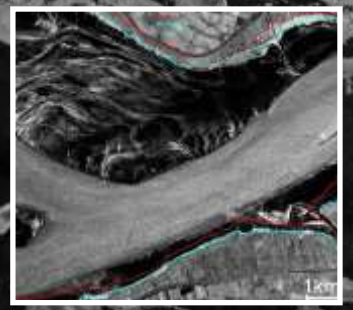
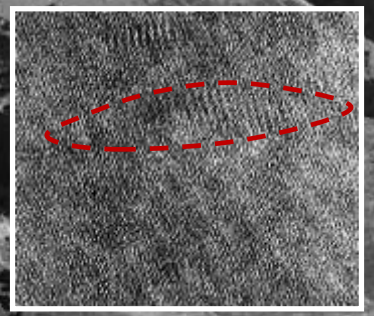
MARINE SAFETY AND SECURITY – Activities

Bathymetry

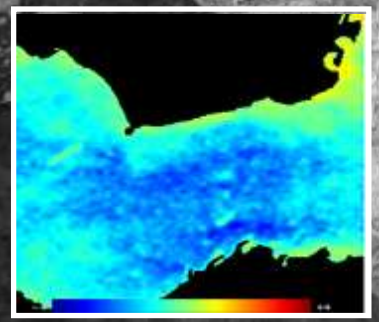


Land-Water line

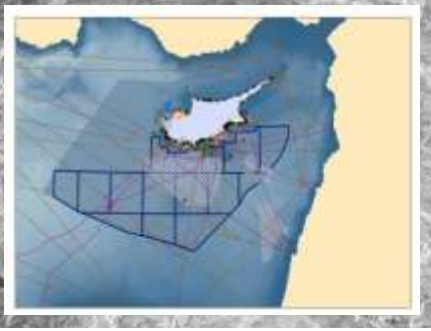


Wave groups

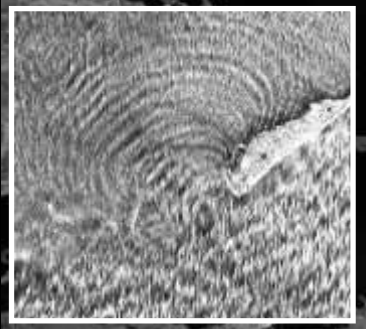
Wave breaking



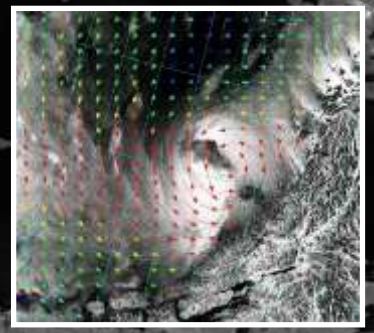
Surface Currents



Marine Spatial Planning

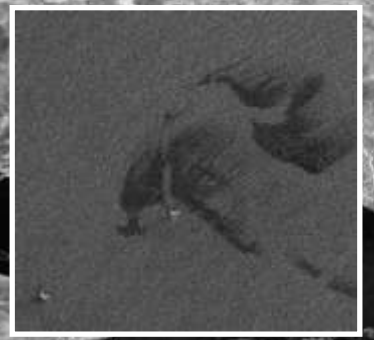


Sea state



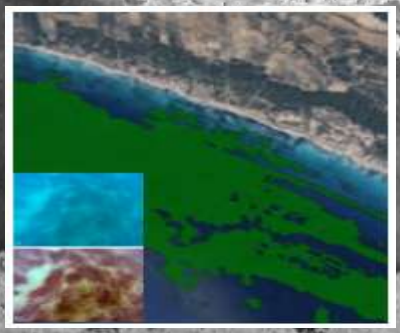
Wind

Ship detection



Oil spills

Icebergs



Posidonia

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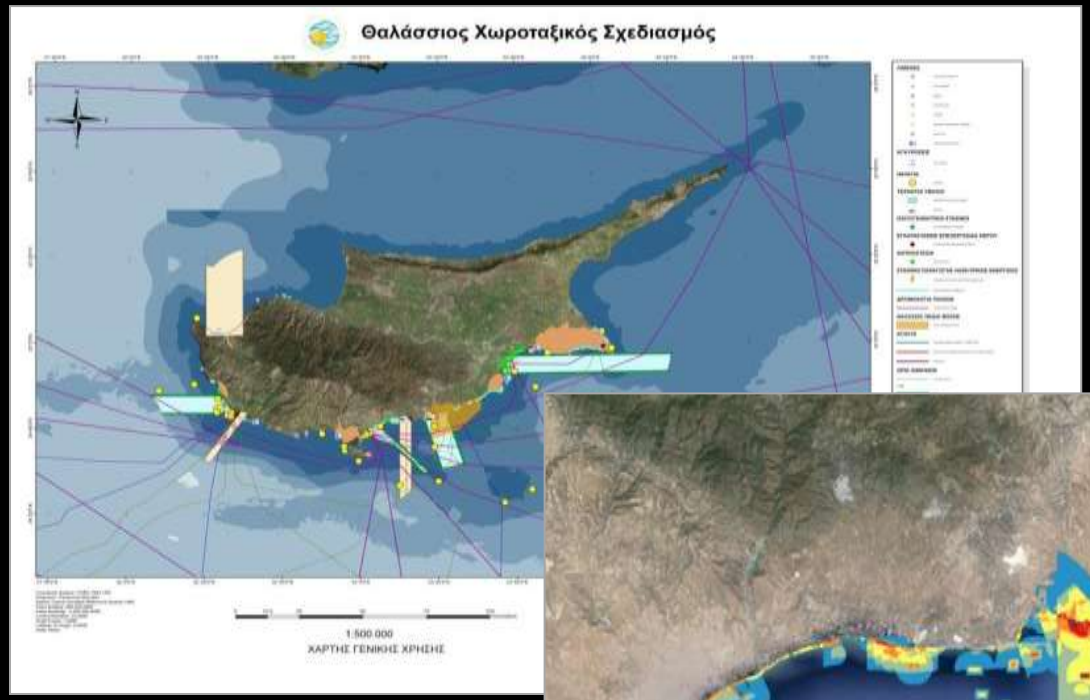
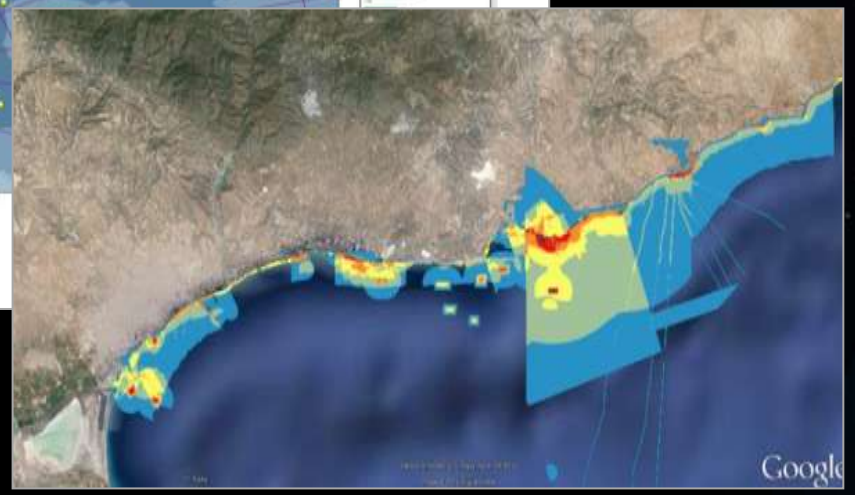
MARINE SAFETY AND SECURITY – Examples:



Marine Spatial Planning



Mediterranean Port Operations Observatory

Bathymetry using multispectral and SAR remote sensing data-SIMONA

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ENERGY – Activities

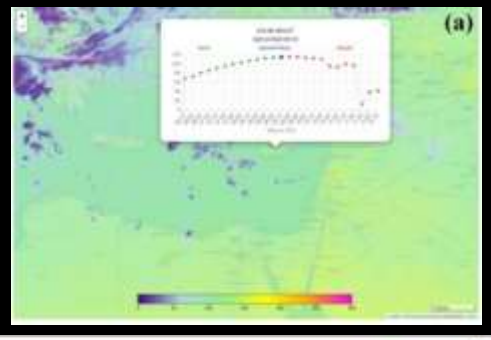
Establishment of the Solar Radiation/Energy Laboratory of ECoE (Under development)

- Procurement for the purchase of instrumentation for the Cyprus Solar Network - CSN

→ **Monitoring of the solar energy and solar ultraviolet (UV) radiation**

→ **Validation of the CySENSE forecasting model products**

- Transfer from NOA – PMOD/WRC of the solar irradiance nowcasting and short- term forecasting system (nextSENSE), optimized for the Cyprus needs



↕ **CSN to be used as assimilation tool, to further improve the CySENSE products**

→ **Development of the CySENSE forecasting model**

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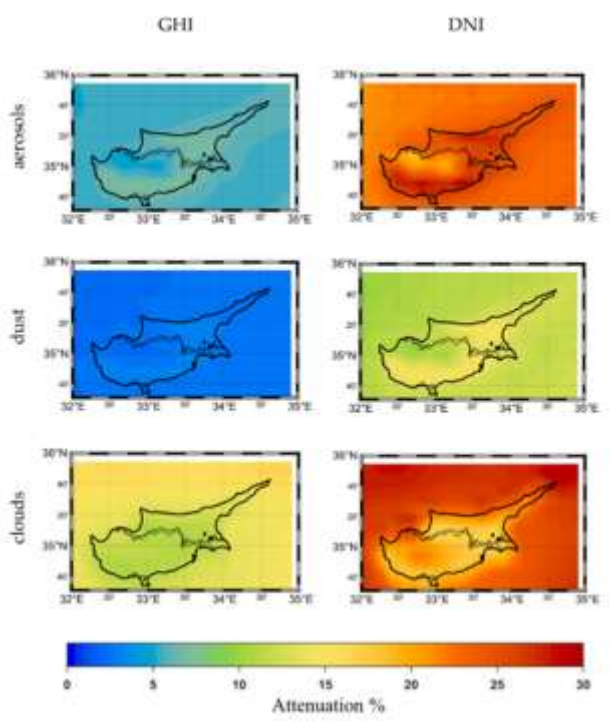
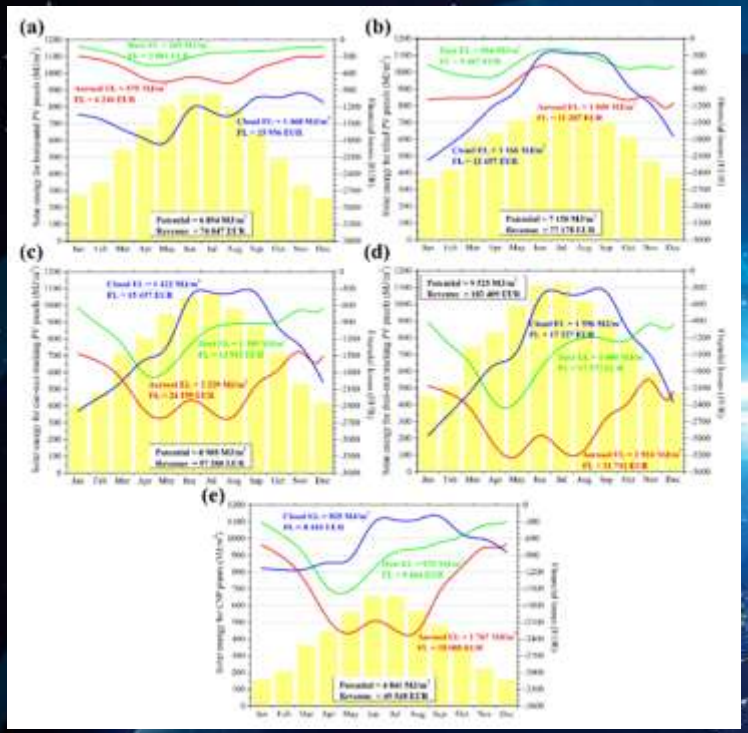
ENERGY – Examples

Effects of aerosols and clouds on the levels of Surface Solar Radiation and Solar Energy in Cyprus



Attenuation (in %) of the total annual GHI and DNI by aerosols, dust aerosols, and clouds

Financial analysis of the clouds, aerosol, and dust impacts on the produced solar energy from different PV installations



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Ultraviolet Index (UVI) in Cyprus

Calculating and forecasting Ultraviolet Index (UVI) in Cyprus

The Laboratory of Solar Radiation and Energy at the ERATOSTHENES Center of Excellence (ECoE) has the potential to contribute to the development of more sustainable and efficient energy systems and to promote environmental protection.

UVI MAP

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Ultraviolet Index (UVI) in Cyprus

A network of ground stations measuring UVI day in day out

Discover accuracy in the measurement, calculation, and prediction of UVI through our esteemed collaborations with leaders in environmental, solar, and climate sciences. The experience of our partners guarantees precise, reliable, and up-to-date information about UVI, empowering you to make informed decisions about your sun exposure for a safer and healthier lifestyle.

- **Accurate Measurements**
- **Multiple Locations**
- **24/7 Monitoring**
- **UVI Forecasting**

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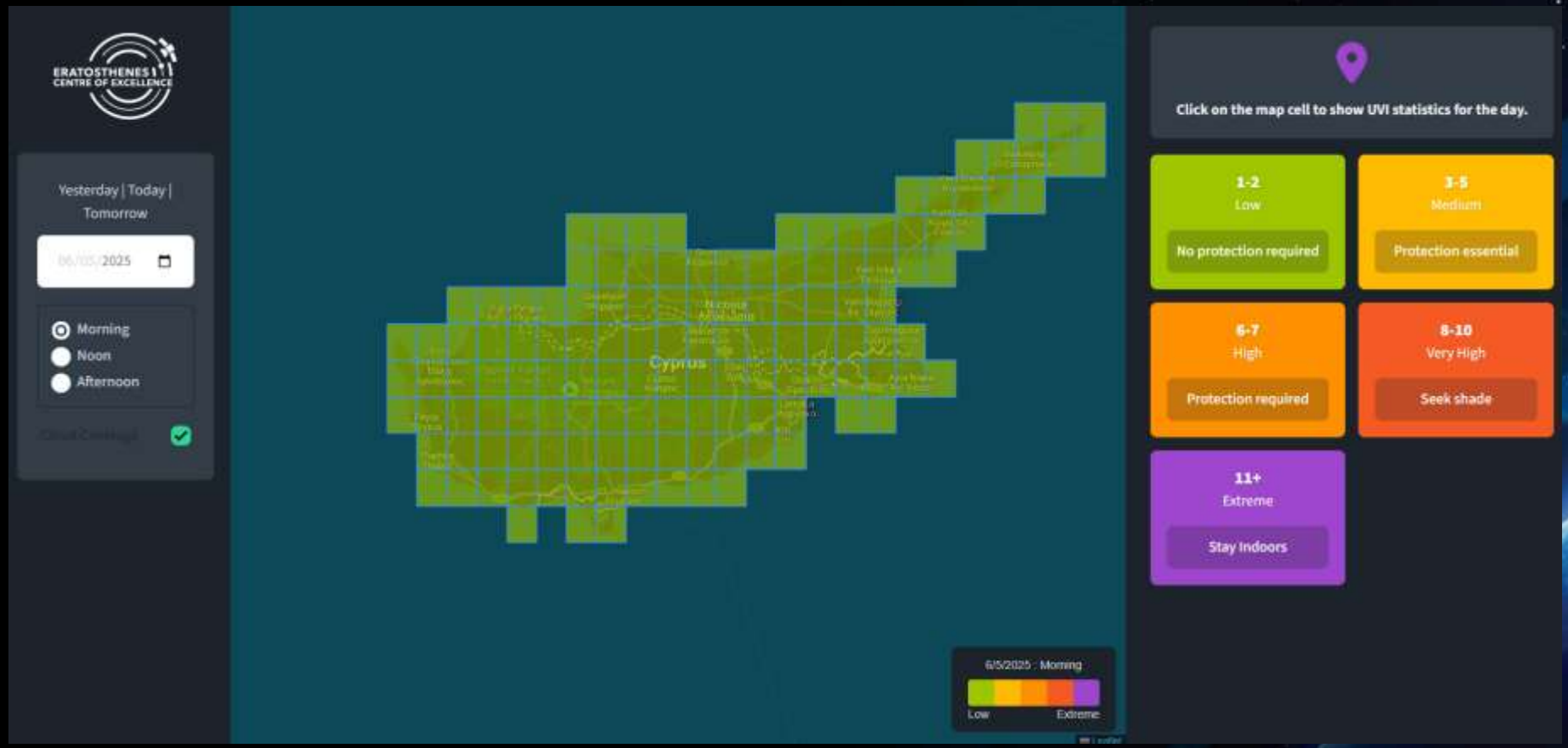

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BIG EARTH DATA ANALYTICS – Activities

- Information Extraction
- Visual Exploration & Visualisation
- Crowd Sourcing & Data Fusion

Machine Learning modelling for the analysis of EO data
Models for studying interactions (social, network analysis)
Visualisation of long temporal time series
Data fusion of different satellite derived data for utilisation in various models

- Geo-informatics

Geospatial analysis
Remote sensing
Location based services.
Implementation of Geographic Information Systems for various applications
Global Navigation Satellite Systems (GNSS) and GNSS augmentations
Ubiquitous Positioning and Navigation
Geoid modelling
Coordinate Reference System

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National Earth Observation Data Cube

- Ability to handle Big Earth Data volumes.
- Faster time-series analysis and easier data processing.
- Access to offline satellite imagery.
- Analysis Ready Data (ARD).
- Integration of data derived from different sources.
- Visualize data for a wide range of applications.

https://cyprusdatacube.com/

Near Real-Time ARD to serve EO data provision, support numerous of EO downstream applications and researchers around the region and the rest of world.

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SPACE | BUSINESS INCUBATION CENTRE

By ERATOSTHENES CoE

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SPACE BUSINESS INCUBATION CENTRE By ERATOSTHENES CoE

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The website was launched on 17 June 2025

https://spacebic.cy/

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Space BIC

Supporting You On Your Journey

Space BIC by ERATOSTHENES CoE is a business incubation centre established to support the development of space-based entrepreneurship in Cyprus. It is established and operated by the ERATOSTHENES Centre of Excellence with the support from the Deputy Ministry of Research, Innovation and Digital Policy (DMRID), the incubator aims to empower early-stage startups or individual entrepreneurs that will leverage satellite data, space technologies, or geoinformation services to address societal and market needs.

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Benefits
from Space BIC

What we offer to the selected startups according to the needs of each start up, depending on the prototype stage and team maturity.

- Non-Equity Financial Support
- Dedicated Workspace
- Infrastructure & Equipment Access
- Technological Support
- Expert Mentoring
- Market Access
- Networking Opportunities
- Access to Funding Opportunities
- Open Innovation Collaboration
- R&D and Innovation Project Support

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Benefits from Space BIC

- Financial support of up to €50,000 per startup.
- Tailored mentoring and consulting in technical, business, legal, and IP matters.
- Access to infrastructure, labs, research facilities, and expert networks.
- Opportunities for networking with local and international innovation ecosystems.
- Participation in training workshops, hackathons, and outreach events.
- Strategic guidance on internationalization and scaling up.

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Who can apply

Cyprus-based teams

- Startups, SMEs, or individual entrepreneurs legally established in areas controlled by the Republic of Cyprus, or planning to establish operations there.

Newly established companies or teams

- Businesses registered within the last five years.

Demonstrated relevance to the space industry

- Proposed solutions must clearly connect to upstream or downstream space applications, leveraging space technologies, satellite data, or geoinformation services.

Viable business case

- Applications should present a feasible business case with market potential.

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Cycles Timelines

Cycle 1

17 June 2025 (call starts) – 15 October 2025 23:59 Cyprus local time (call ends) – 17 December 2025 (cycle starts) – 17 December 2027 (cycle ends)

Cycle 2

TBA

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Stay Tuned | Exciting Things Are Coming! 🚀

🗓️ A series of events is underway
🎉 Official Launch Event in September — Date TBC

Keep in Touch | Stay Connected 🚀

📞 **Phone:** +357 25 002908
📧 **Email:** info@spacebic.cy
🌐 **Website:** www.spacebic.cy

🔗 **Follow us on social media:**
🔵 **Facebook:** @SpaceBic/
🔷 **LinkedIn:** Space BIC

📡 Supporting the next generation of space entrepreneurs in Cyprus!

CONSORTIUM: Cyprus University of Technology, DLR, TROPOS, DEC, ERATOSTHENES

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Entrepreneurship

The Cyprus Space Business Incubator Centre (BIC)

- ERATOSTHENES CoE was awarded a contract for the establishment, management and operation of the Space BIC.
- Contract signed between the Deputy Ministry of Research, Innovation and Digital Policy and ERATOSTHENES CoE on 17 March 2025.

Benefits for Cyprus:

- Facilitate the prospect of Cyprus to become an ESA member.
- Support entrepreneurs with a space-based business ideas.
- Create clusters of space start-ups.
  - Start-ups apply to get support to develop their space-based business idea (downstream or upstream).
  - Selections of start-ups at 2-3 times per year.

DEPUTY MINISTRY OF RESEARCH, INNOVATION AND DIGITAL POLICY
REPUBLIC OF CYPRUS

Cyprus Space BIC
The Incubation Program for the Space Start-up ecosystem in Cyprus

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- Strategic guidance on internationalization and scaling up

⏳ **Coming soon** 🌐 **https://spacebic.cy**
✉️ **info@spacebic.cy**

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HR Excellence in Research

HR EXCELLENCE IN RESEARCH

ERATOSTHENES has been awarded the **HR Excellence in Research** distinction by EC in 2025, aligned with the **European Charter for Researchers** and the **Code of Conduct for the Recruitment of Researchers.**

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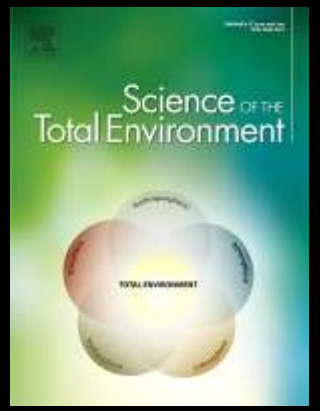
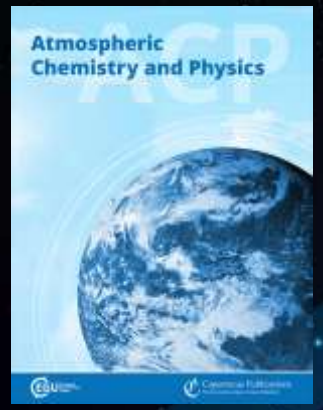
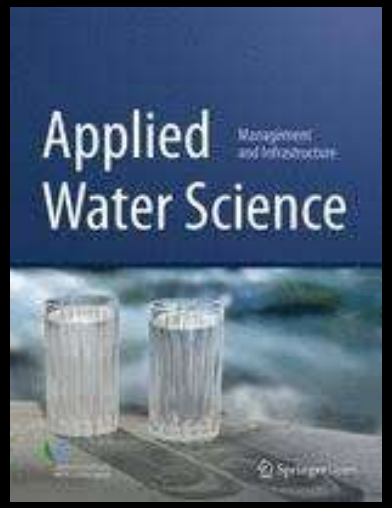
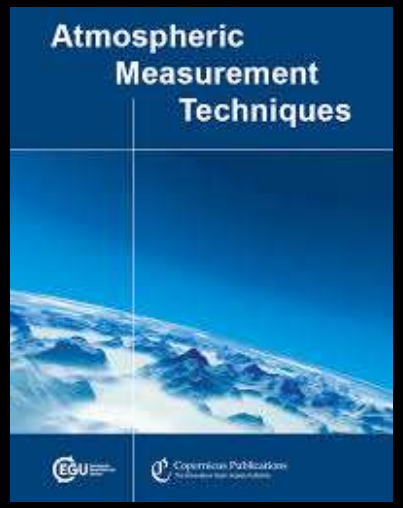
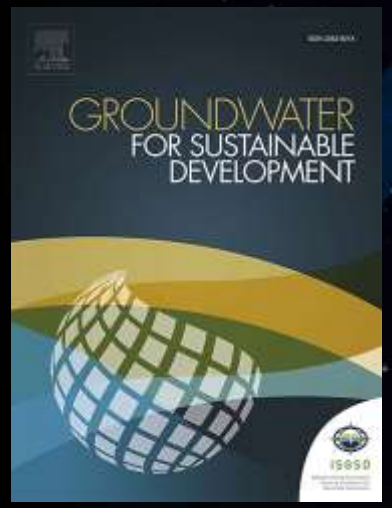
Selected publications

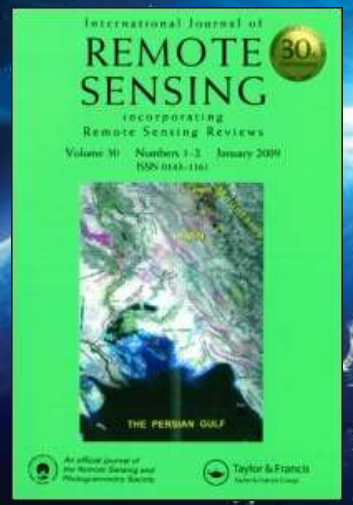












CONSORTIUM
Cyprus University of Technology · DLR · TROPOS · DEC · ERATOSTHENES CENTRE OF EXCELLENCE

AFFILIATED ENTITIES
CYRIC · pmod wrc

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".

Cyprus University of Technology

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

Research proposals and funded projects

>50 research projects > € 15M budget for ERATOSTHENES CoE

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Selected Services

- Study of the existing systems, infrastructure, and geographic data for the Limassol - Sewerage Board of Limassol – Amathus – SALA
- Creation of a database and development of a Geographical Information System (GIS) for the municipalities of the Limassol district - Limassol Municipalities
- Upgrading and landscaping of the warehouses of the Ports Authority in Latchi in the Municipality of Polis Chrysochous into a Multipurpose Sea and Culture Centre

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Certified Vocational Training Centre

- ERATOSTHENES has been certified as a **Vocational Training Centre** by the Human Resources Development Authority of Cyprus in 2024.
- The ERATOSTHENES Vocational Training Centre provides **specialized training programs in Earth Observation and Geospatial Analysis** to enhance professional skills and expertise.

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ERATOSTHENES CoE in numbers

- **5 years** of life
- **105 employees**
- **2 critical infrastructures** (GBS & DAS)
- **> 150 publications** in journal and conference proceedings
- **> 50 research projects** (18 as coordinator & 32 as partner)
- **> € 15 M€** from research projects+services
- Collaborations with **> 600 Organizations**
- Member in **> 10 European and International networks**

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Thank you

CONSORTIUM

Cyprus University of Technology

DLR

TROPOS
Leibniz Institute for Tropospheric Research

ERATOSTHENES CENTRE OF EXCELLENCE

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