

Alexandros Pantazis

Project Manager · EU Funded Programmes | Environmental Engineer · GIS & Remote Sensing

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Profile

Environmental engineer and project manager working in energy transition and climate resilience projects for municipalities across Greece and Europe. I find purpose in assignments that deliver measurable outcomes and create a meaningful impact on society. I enjoy working in environments that create continuous growth, encourage personal improvement, and support collaboration. I embrace the challenge of taking responsibility for crucial tasks and excel at absorbing new information

Employment History

Jun 2026 – Present

📌 **Project Manager**, Sustainable Development Advisory.

- Manage the implementation of EU-funded projects (LIFE, EUI, Horizon Europe) in energy transition and climate resilience, coordinating activities, deliverables and timelines.
- Facilitate collaboration with international consortium partners and municipalities, ensuring alignment across interdisciplinary teams.
- Organise capacity-building workshops and dissemination actions supporting knowledge transfer and stakeholder engagement.
- Provide technical input in GIS, environmental analysis and data-driven decision-making for sustainable urban development.

Jan 2024 – May 2026

📌 **Educational Researcher & EU Project Manager**, Ellinogermaniki Agogi.

- Managed European projects (€400K–€1.5M total budget) focused on geospatial skills and green & digital competences for teachers and students.
- Co-developed pedagogical frameworks for integrating geospatial technologies and GIS tools into secondary-education curricula.
- Designed and executed a study (N = 450) evaluating competence development through pre/post-implementation analysis.
- Trained 100+ teachers through hands-on workshops, professional development courses, seminars and summer schools.

Jan 2023 – Dec 2023

📌 **Field Engineer**, Hellenic Electricity Distribution Network Operator.

- Operated mobile mapper and GNSS systems to accurately map the electricity distribution network.
- Generated point-cloud data and compiled daily progress reports for project stakeholders.

Jun 2021 – Dec 2021

📌 **Intern**, Department of Civil Protection & Environment.

- Monitored fire-protection measures and visualised operational workflows using GIS tools.

Education

- Oct 2023 – Jun 2025  **MSc, Climate Crisis & Information and Communication Technologies**, University of Piraeus (Grade: 9.34 / 10).
Thesis: *Optimization of School Bus Routing using GIS and calculation of economic and environmental benefits*.
- Oct 2017 – Feb 2022  **BSc, Natural Resources & Environment Engineering**, Hellenic Mediterranean University (Grade: 8.65 / 10).

Featured GIS Projects

- Web GIS  **Air Quality Observatory for Greek & Cypriot Schools.** Web GIS built on Copernicus (CAMS) and Open-Meteo data, surfacing the European Air Quality Index and key pollutants for schools, with 5-day forecast, automated PDF reports and social sharing. Entry for the ADONIS TICKET competition.
- Heat / Climate  **Heat Vulnerability Index, Municipality of Athens.** Integrated environmental and socio-economic factors in ArcGIS Pro to pinpoint high-risk neighbourhoods across the municipality.
- Remote Sensing  **Heat Risk Index, Attica Peninsula.** Analysed Landsat 8 and Sentinel-2 imagery at 20×20 m resolution alongside population density to reveal thermal hotspots in Central Athens.
- Automation  **Heat Risk Index Calculator, Northern Hemisphere.** Google Earth Engine application that automates the full Heat Risk Index workflow, returning a classified raster for any location.
- Optimization  **School Bus Routing Optimization.** ArcGIS Network Analyst and Model-Builder model (fleet N = 106) achieving a 33.4% fleet reduction, 20% lower CO₂ emissions and €96.6 saved per route. Basis of the MSc thesis.

EU-Funded Projects

- GA 101104693  **GEO-Academy.** Erasmus+ Teacher Academy for digital and geospatial skills in sustainable-development education.
- GA 101102346  **Synapses Academy.** Erasmus+ Teacher Academy for sustainability-citizenship training of teachers and school heads.
- KA220-SCH  **STEMMOS.** Satellite observation of Earth, Moon and Mars in schools.
- GA 0108692  **Eco² Schools – NEB Labs.** Transforming schools into climate-neutral innovation hubs through eco-renovation and education.
- KA220-SCH  **Discovery Trail.** Outdoor digital-learning tool for understanding environmental complexity.
- LIFE23-CET  **CEOS.** City Energy Optimisation Solutions, improving energy efficiency across municipal infrastructure.

Conference Presentations

- 1 **A. Pantazis**, “The diffusion of teaching for sustainability citizenship across Europe”, in *Synapses Academy International Conference*, Athens, Greece, Apr. 2026.
- 2 **A. Pantazis**, “Transforming teaching practices: From GEO-academy training to classroom impact (panel)”, in *GEO-Academy International Conference*, Paris, France, Mar. 2026.
- 3 **A. Pantazis**, “School bus routing optimization using GIS”, in *ArcGIS Greece–Cyprus Users Meeting*, Athens, Greece, Oct. 2025.

- 4 **A. Pantazis**, “When students act as urban redesigners: Detecting urban heat islands in Cyprus”, in *European University of Cyprus Conference*, Nicosia, Cyprus, Nov. 2025.
- 5 **A. Pantazis** and M. Chatzigeorgiades, “GIS application for fire risk assessment”, in *ArcGIS Greece–Cyprus Users Meeting*, Athens, Greece, Oct. 2024.
- 6 **A. Pantazis** and E. Vlachou, “From zero to hero through Esri’s MOOC: HVI for the municipality of Athens”, in *Esri Imagery & Remote Sensing Educators Summit*, Virtual, May 2024.

Skills & Languages

Project Management	 EU Proposal Development, Consortium Coordination, Deliverables & Reporting, Stakeholder Engagement, RACI, SWOT, Budgeting, Agile, Waterfall.
GIS	 ArcGIS Pro, ArcGIS Online, QGIS, Google Earth Engine, Network Analyst, ModelBuilder, Spatial & Multicriteria Analysis.
Software Tools	 Python (basic), AutoCAD 2D, Microsoft Office, Canva, Inkscape, $\LaTeX$.
Languages	 English (C2 Proficiency), Greek (Native).

Certificates

Jan 2026	 Learn Python 3 , Codecademy. Certificate of Completion covering the full Python 3 course.
May 2022	 Foundations of Project Management , Coursera / Google. RACI charts, SWOT analysis, budgeting, Agile & Waterfall management.

Honors & Awards

May 2025	 Silver Award, Education Leaders Awards 2025 , in the category “Fostering Environmental Awareness & Climate Change in Private Secondary Education”, for the school initiative <i>The Green School: A Living Laboratory of Innovation and Sustainability</i> .
Oct 2024	 Full postgraduate scholarship , awarded by the University of Piraeus for the MSc programme “Climate Crisis and Information and Communication Technologies”.
May 2023	 €7,500 grant, INCO & Google , through the “Social Entrepreneurship” programme (Social Tides, Aspire Greece 2023–2024), for transforming spent coffee grounds into a sustainable heating log.
May 2021	 “Rhetoric” & “Democracy” Awards , as Head of the Environment Sector at the Model Hellenic Parliament (parliamentary procedures simulation).
September 2018 & September 2019	 State Scholarships Foundation (IKY) scholarship , awarded twice as an undergraduate student under the programme for diligent students from vulnerable social groups and large families.

References

Available upon request.