TRACE
Tracing Climate Change
by geomorphological approach

UNIVERSITATEA DIN BUCUREȘTI
VIRTUTE ET SAPIENTIA

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Science Technology Engineering Mathematics

TRACE CLIMATE CHANGE

COASTAL ZONES | PALEOGEOGRAPHY

MORPHOTECTONICS | CLIMATE CHANGE

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What is the TRACE Project?

TRACE connects **4 partners across Greece, Romania and France** to study climate change impacts on diverse geomorphological environments through fieldwork and research. Together, we raise environmental awareness and empower communities via workshops and conferences, alongside producing open educational materials and interactive resources to deepen scientific understanding of climate change effect.

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Field Experiences across 3 Countries

To collect empirical data and understand landscape evolution, TRACE conducted extensive field campaigns across Romania, Greece, and France. Using modern geoscientific tools - such as drone surveying, geophysical instruments, and sediment core sampling - the team mapped past and present climate impacts.

Regional Highlights:

- 🇷🇴 **Romania:** Focused on delta progradation, shoreline dynamics, and low-altitude permafrost as sensitive indicators of contemporary climate change.
- 🇬🇷 **Greece &** 🇫🇷 **France:** Examined the combined impacts of neotectonic activity, coastal morphology, and climate variability on relative sea-level changes.

Student & Educational Engagement:

Beyond scientific discovery, these field trips served as living classrooms! Students participated through **CIVIS Blended Intensive Programmes (BIPs)** and hands-on research initiatives, gaining direct experience in geospatial data acquisition and environmental analysis.

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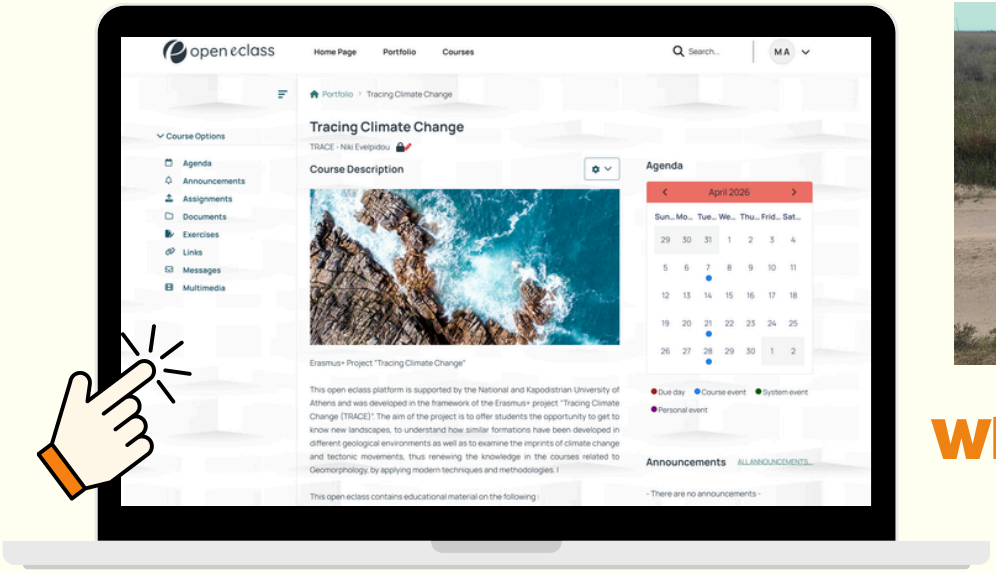
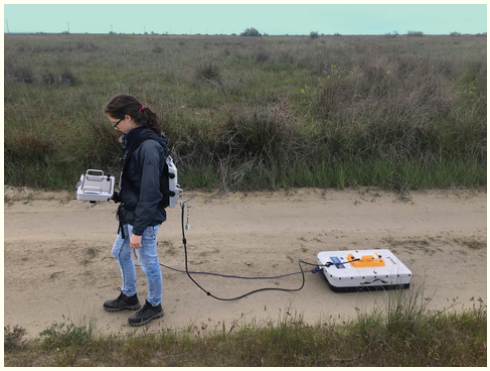
open eclass





What's Included in the Platform:

The TRACE Open e-Class Platform

All TRACE educational and scientific outputs are freely accessible on the Gunet Open e-Class platform. Users can create a free account to access a full suite of modern learning tools designed for students, educators, and researchers.

- 📖 **Documented PDF Resources & Bibliographies:** Covering topics like alpine permafrost, coastline dynamics, and delta evolution.
- 🗺️ **Storytelling Maps & GIS Data:** Interactive geospatial tools and application guides.
- 🎬 **Video Content & Field Guides:** Recorded training workshops and field trip documentation.

Successful Stories Booklet

To capture the impact of our collaboration, we compiled participant & trainers testimonials, field photographs, and best practices into a dedicated Success Stories Booklet. It showcases the knowledge gained and the international partnerships formed throughout the project.

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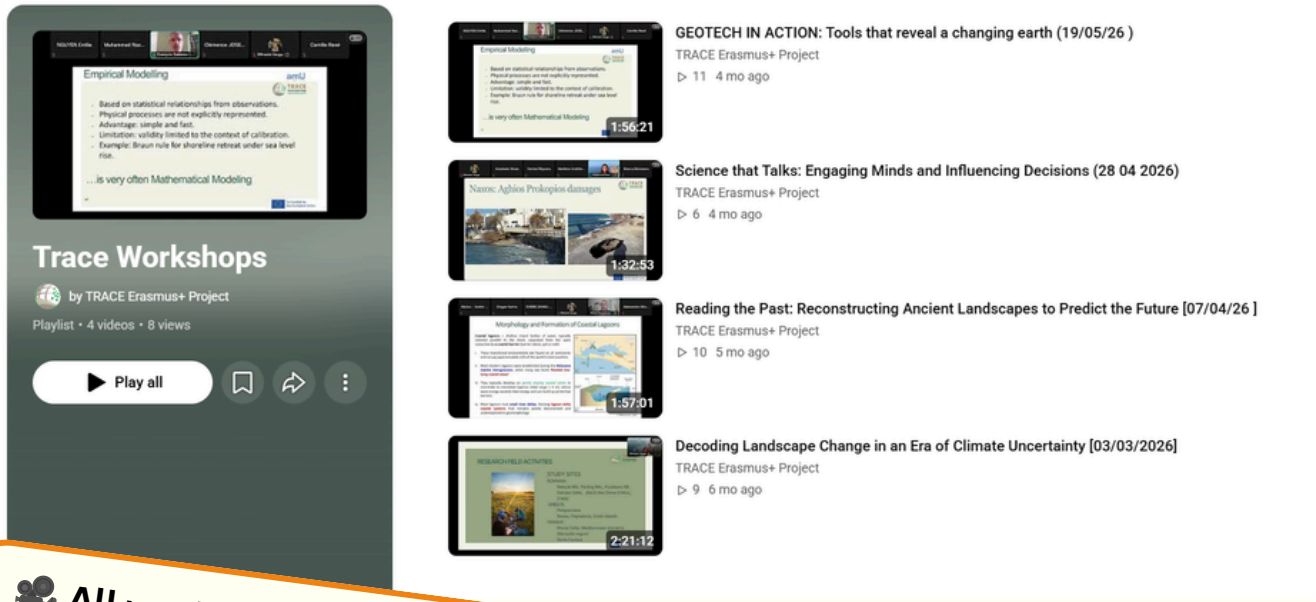
Online Workshop Series - 3 countries ~ 3 months

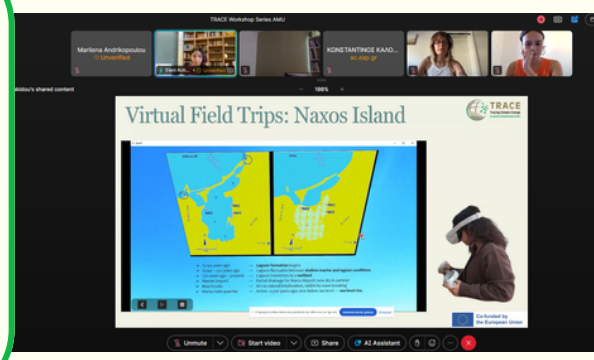
For one-month period, TRACE partners hosted a series of weekly online workshops focused on coastal and deltaic landforms. The series brought together researchers, students, and practitioners to discuss past environmental changes and future climate challenges.



All workshop recordings are available on the TRACE YouTube Channel.

Featured Modules:

1. **TRACE:** Decoding Landscape Change in an Era of Climate Uncertainty
2. **Reading the Past:** Reconstructing Ancient Landscapes to Predict the Future
3. **Geotech in Action:** Tools That Reveal a Changing Earth
4. **Science that Talks:** Engaging Minds and Influencing Decisions



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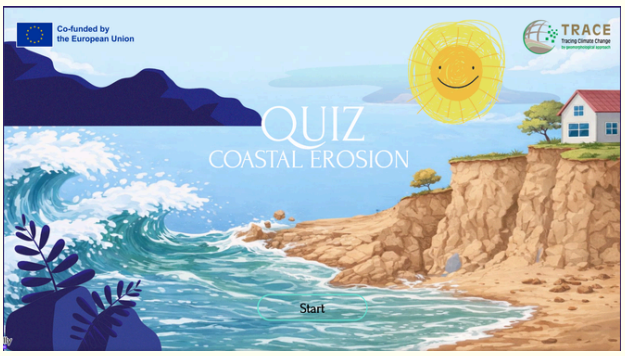
Interactive Gamified Learning - Quizzes

We created 7 interactive quizzes based on the educational content provided by the project, that turn scientific content on coastal environments and climate change into engaging, game-based learning experiences designed for playful interaction.



1. Deltas in the Anthropocene - 2. Coastline Dynamics - 3. Dynamic Landscapes - 4. Understanding coastal vulnerability - 5. Coastal Erosion - 6. Marine Terraces - 7. Adaptation and mitigation strategies to vulnerable coastal environments

Multiplier Events & Lasting Impact

Through conferences, webinars, and regional outreach events in Greece, Romania, and France, TRACE brought research directly to stakeholders. These open-access resources will continue to support university teaching in Geomorphology, Physical Geography, and Climate Science for years to come.

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