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## SUTEE: Showcasing Urban Trees for Environmental Education with IoT Technology

**Project Number: 2023-1-ES01-KA220-SCH-000153498**

**Newsletter 3: February 2025**

### About the project

SUTEE (Showcasing Urban Trees for Environmental Education with IoT Technology) is a European project, co-funded by the European Commission under the Erasmus+ KA220-SCH program, with an implementation period of 3 years. The project is coordinated by the Universidad Politecnica de Madrid (Spain) in collaboration with 4 participating organisations: Pädagogische Hochschule Wien (Austria), Doukas School (Greece), Universidad Nacional de Educación a Distancia (Spain) and Johann Wolfgang Universität Frankfurt am Main (Germany).

The SUTEE project focuses on enhancing environmental education for teachers and young people in dense metropolitan areas. Recognizing the significant impact urban environments have on human well-being and climate change, SUTEE aims to foster innovative educational approaches to tackle these pressing societal and ecological challenges.

### Objectives

The project aims to address the following issues:

- 🌱 appreciation of the natural landscapes and features in cities
- 🌱 create competences to support urban environmental behaviours
- 🌱 awareness of citizen participation in avoiding degradation of ecosystems and destructive city planning that exacerbates Urban Heat Islands (UHIs) and destroys urban tree canopy (UTC)
- 🌱 aggregate a variety of climate protecting approaches (fountains, vertical gardens, etc.)
- 🌱 build knowledge, skills and attitudes around sustainable living (GreenComp)
- 🌱 generate digital competences to collect and interpret urban environmental data (e.g. CO2 air quality, soil moisture deficits)



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## SUTEE course successfully completed

With the end of January and the end of the winter semester 2024/25, the SUTEE online course came to a successful completion. The course consisted of five individual modules covering different approaches to environmental education. The modules were initiated during synchronous online sessions, where a keynote presentation held by international experts informed attendees about content, method and technology relating to teaching environmental awareness. This was then followed by internal discussions and group work, as well as home assignments to incorporate course theories and models into the teachers' own work at their home classrooms.

We would like to thank all the participants for taking an active role in the course and beyond. We also appreciated greatly the keynote presenters who with their inspiring talks, provided pivotal insights into the domain. In total, 23 participants completed the entire course and were awarded a certificate of attendance.



## SUTEE LTTA, Vienna, 2025

As part of the Erasmus+ project *Showcasing Urban Trees for Environmental Education (SUTEE)*, this free three-day workshop offers teachers practical methods to address topics like urban trees, heat islands, and soil sealing in the classroom.

Participants will explore research-based learning approaches, use real environmental data, and exchange ideas with colleagues from Athens, Frankfurt, Madrid, and Vienna. The workshop is open to teachers of all school levels.

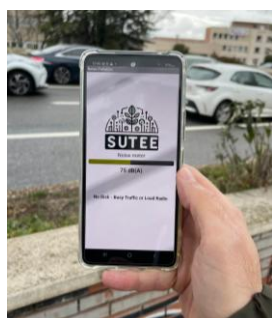


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## 3rd Transnational Project Meeting

On January 22 and 23, UNED in Madrid hosted the 3rd Transnational Project Meeting for the “SUTEE: Showcasing Urban Trees for Environmental Education with IoT Technology” project. All partners attended in person, fostering collaboration and hands-on engagement with the project’s tools.



A key highlight of the meeting was the practical use of IoT sensors on campus, allowing partners to measure air particles, CO<sub>2</sub> concentration, temperature, and other environmental factors. This hands-on experience reinforced the project’s mission of integrating technology into environmental education.

Additionally, UPM presented the web application, showcasing its features and functionalities. Partners also engaged in an in-depth discussion about the upcoming LTTA in Vienna, Austria, scheduled for May, where teachers will receive training on effectively using the project’s deliverables.

The meeting provided a valuable opportunity to align on project objectives and ensure smooth progress toward impactful educational outcomes.

### Partners



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