

TRANSFORMATION LAB FAIR & STAKEHOLDER CHALLENGE

CLIMATE CHANGE AND EUROPEAN CITIES: ADAPTATION TO URBAN HEAT ISLAND EFFECT AND NATURE-BASED SOLUTIONS

2-4 JUNE 2025

SOFIA UNIVERSITY ST. KLIMENT OHRIDSKI

INVITATION

T4EU Environmental Transformation Lab (T-Lab) "Smart cities & regions" invites you to a three-day Fair. During the event you will get to know the activities of the T4EU Labs, participate in thematic discussions and workshop, in a geospatial research & technologies Fair, meet stakeholders & businesses and observe a stakeholder challenge for students.

Cities and urban areas are parts of the habitable geographical space of our planet that are most affected by the deep and comprehensive transformation processes, turning natural landscapes and geosystems into highly modified natural-social systems (artificial habitats), saturated with anthropogenic and artificial objects and coverings. These, in turn, lead to significant deviations and modifications of natural processes, which significantly affect the state of urban ecosystems and the ecosystem services they provide to local populations and their quality of life. The increasingly intense urbanisation that we are witnessing in Europe and worldwide, combined with deepening climate change, will lead to an even more serial intensification of the manifestation of natural and climatic risk phenomena, including the so-called urban heat island effect and its role in increasing the risk for European city populations and worsening their living comfort. These effects will be particularly pronounced under conditions of prolonged heat waves, something that is already occurring in a number of places.

Smart and resilient cities and regions adapt effectively to changing climates and geographies. They mobilize applied science and knowledge to meet the serious challenges they face, while striving to maintain a high quality of life and comfort for their residents and local communities.



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PRELIMINARY PROGRAMME /local time zone EEST/

02 June 2025/ Sofia University St. Kliment Ohridski /day for students/

- 09:30–10:00** Registration, Coffee & Opening of the stakeholder challenge /
- 10:00–12:00** Stakeholder challenge introduction and student groups formation
- 12:00–13:00** Lunch
- 13:00–17:00** Group work and case study visit

03 June 2025/ Sofia University St. Kliment Ohridski

- 09:00–17:00** Students group work
- 10:00–12:00** T-Labs presentations /hybrid form/
- 12:00–13:00** Lunch
- 13:00–15:00** T4.5 experts group session – T-Labs & Platform discussion /hybrid form/
- 15:00–16:00** Smart technologies for spatial data collection of the urban environment workshop

04 June 2025/ Sofia University St. Kliment Ohridski

- 09:00–12:30** Students group work
- 10:00–12:30** Geospatial Research and Technologies Fair
- 13:00–14:00** Lunch & Fair
- 14:00–16:00** Stakeholder challenge students' presentations
- 16:00–18:00** Closing cocktail & Business communication