



# A Multidisciplinary approach to plan ECOsystem Services for cities in Transition

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## Abstract

The ECO-SET workshop provides an interdisciplinary platform to explore innovative strategies for integrating ecosystem services in cities in transition. Through data-driven approaches based on geospatial analysis, artificial intelligence, and ICT, it showcases tools and applications supporting sustainable urban planning and resilience, fostering dialogue and co-creation among researchers and stakeholders.

## CCS Concepts

• **Information systems** → **Information systems applications.**

## Keywords

Ecosystem services, Urban landscapes, GIS

### ACM Reference Format:

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## 1 Description and Objective

The ECO-SET workshop offers a unique, participatory platform—a nexus where researchers, stakeholders, practitioners, and other actors converge to explore innovative strategies for integrating ecosystem services within evolving urban landscapes.

The workshop embraces a dynamic and inclusive format. It begins with an engaging presentation of the ECO-SET project itself—highlighting its theoretical underpinnings as well as the key experimental findings achieved thus far. Attendees will be introduced to novel data-driven methodologies rooted in geospatial analysis, artificial intelligence, and information and communication technologies; all aimed at harnessing urban ecosystem services for promoting biodiversity protection and urban resilience.

Following this theoretical foundation, the workshop transitions to showcasing concrete applications. Participants can explore practical implementations using spatial tools such as QGIS, Urban Atlas datasets, and CO<sub>2</sub> emission prediction models—all deployed to support informed urban planning and the sustainable management of ecosystem services. These illustrative cases will bring to life how interdisciplinary methods can translate research into tangible urban design interventions.

The concluding segment of the workshop is dedicated to open discussion—with ample opportunity for all participants to engage in collaborative dialogue. Researchers, urban planners, civic leaders, and other stakeholders will be invited to reflect on the project's real-world relevance, explore potential adaptations, and co-formulate actionable pathways for future city transitions toward sustainability and resilience.

This format encourages a synergistic exchange of ideas, emphasizing the role of interdisciplinary collaboration in addressing urban ecological challenges, also enhancing the workshop's flexibility and inviting richer, experience-driven engagement from a broad and diverse audience.

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