SESSION DESCRIPTION

ID: B10

Designing Resilient Cities through Ecosystem Service Mapping

Hosts:

	Title	Name	Organisation	E-mail
Host:		Stefano Salata	Department of City and Regional Planning, Faculty of Architecture, Izmir Institute of Technlology	ssalata1983@gmail.com
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		Sabrina Lai	Department of Civil and Environmental Engineering, and Architecture, Università di Cagliari	sabrinalai@unica.it
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Abstract:

"The paradigms of ecological planning are widely discussed in the scientific community; nevertheless, their practical operationalization through spatial maps, indicators and an ecosystem assessment for community benefits is less common in practice and far from being achieved.

ESs are often mentioned or referred to in plans and projects but without operationalising the concept and a full integration in the planning process has not been achieved so far to effectively support decision-making process, partly due to lack of knowledge and awareness to represent the spatial distribution of ES biophysical values across the landscape.

Recent studies advocate that multi-functional Green Infrastructures (GI), a tool traditionally adopted and used in spatial planning, can act as a suitable concept for “translating” the complex topic of ESs into plan-making processes, contents, and provisions, as well as in their strategic environmental assessments.

Therefore, understanding the spatial context is a key issue for planning, which would benefit from ES spatial assessment and GI design. GIS models can assist, inform, and help assess biophysical ES provisions and its spatial distribution in a spatially explicit manner while also considering the interaction between threats and source elements through high-resolution assessments."

Goals and objectives of the session:

We aim to discuss the possibilities and difficulties in integrating ES in the planning process using spatial explicit mapping and assessment. Within this Session, we welcome innovative studies, research advancements, and practitioners' experiences in the "operationalization of the ES framework" in spatial planning and for broader planning purposes. We encourage contributions that address case studies, exemplary applications, theoretical frameworks and perspectives, as well as proposals of innovative planning processes, methods, and tools to answer the following research questions:

1. To what extent are ESs spatially evaluated and integrated within plans and projects?
2. How have ES mapping and assessments affected planning processes?
3. How have ESs supported the definition of resilience strategies for cities?
4. To what extent is the demand of ESs incorporated in performance-based assessments?
5. How can the biophysical characterization of the land be used to support the design phase, i.e., defining potential alternatives, selecting viable choices, and determining decisions within planning processes?
6. What is the most performative scale of ES assessments useful for planning?

Planned output / Deliverables:

"Abstracts/Papers are invited to contribute to a Special Issue on "Designing Resilient Cities by Ecosystem Service Mapping" in Sustainability (MDPI) (deadline for paper submission: January 2023).
https://www.mdpi.com/journal/sustainability/special_issues/Resilient_Cities_Ecosystem"

Session format:

Standard session (presentations)

Voluntary contributions accepted:

Yes, I allow any abstract to be submitted to my session for review

Related to ESP Working Group/National Network:

Biome Working Groups: BWG 10 – Urban systems