

ESP 11 World Conference

“From global to local ecosystem services: pathways to Nature-based Solutions inspired from Down Under”

23-27 June 2025 | Darwin, Australia

SESSION DESCRIPTION

ID: R1

Implementing ecosystem services into multi-scale practices: from assessment to the realization of ecological product value

Hosts:

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Abstract:

Ecosystem services are critical to human well-being; however, how their value can be fully recognized and effectively utilized and conserved is of even greater practical significance. Assessing ecosystem services ensures that the benefits people derived from nature are recognized and valued, while the realization of ecological product value makes nature conservation profitable thus providing a viable pathway to bridge science and policy-making, especially for those policy-driven countries and regions. Although notable progress has been made, implementing ecosystem services into practices still facing various significant challenges including lacking standardized data and scientific assessment methodology, difficulties in collateralizing or realizing the value of ecological products, etc. Therefore, this session focuses on the topic “from theory to practice”, especially for connecting the information conveyed by ecosystem services modeling with decision-making to accelerate Nature-based Solutions implementation across different countries and regions. During the process of value transformation and decision-making, scientifically grounded information on the values of ecosystem services is essential. Moreover, to transform ecological value into economic value and achieve a win-win outcome for both ecology and the economy, innovative approaches are urgently needed. These include institutional and policy advancements, such as ecological compensation systems and ecological credits, as well as new industrial development models like ecotourism. Simultaneously, we hope to integrate a multi-scale approach, as it can effectively promote the consideration of ecosystem services across different levels of governance—from local, regions to national and global policy-making.

Goals and objectives of the session:

1. This session aims to gather and exchange the frontiers in ecosystem services modelling from different countries and regions. We also hope to further explore and share diverse approaches to model construction and adaptation, ensuring their local applicability across various contexts.

2. This session focuses on in-depth sharing the typical cases, context-specific practices of ecological product value realization across different countries and regions. It aims at sharing experiences and the exchanging of solutions for ecological product value realization across different scales.

3. This session helps researchers and government agencies from various countries gain a comprehensive understanding of how policy-driven nations like China integrate ecosystem services with ecological product value realization. Furthermore, it enhances understanding of how the process of ecological product value realization adapts to local conditions to support informed decision-making at all levels.

Planned output / Deliverables:

1. Advancing ecosystem service assessment models and datasets across countries and regions at different scales.

2. Expanding the approaches and pathways for realizing the value of ecological products in different countries and regions at different scales.

3. Sharing and popularizing extensive experience in ecosystem service assessment and value realization in countries with top-down policy management systems, such as China.

4. Establishing a structured and collaborative platform for the ESP China Network, and drafting a two-year action plan focused on network development, capacity-building initiatives, and regional collaborations.

Session format:

Standard session (presentations)

Voluntary contributions accepted:

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

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