

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: T17

Biodiversity related risks and opportunity's to the financial sector; A Public Private Partnership

Hosts:

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Abstract:

BiROFin; As we all know, nature is facing unprecedented threats with serious economic consequences that are still largely overlooked by the financial sector. While the nature-finance research space is rapidly evolving, the economic and financial impacts of nature loss are still not fully understood.

To truly bend the curve of nature loss, we must go beyond “business as usual”, and investing in conservation alone won’t be enough. We also need to rethink how we produce and consume. Reducing harmful activities across supply chains is essential. To do so requires actual transformative change, which requires systemic shifts—not just in financial and policy decision making processes but also in how we conduct scientific research. This session aims to explore best practices and case studies where the focus is on leveraging ecosystem services science, mapping and valuation, with the aim to rethink how finance and policy can positively influence how we produce and consume in more sustainable, healthy and fair ways. And is able to showcase advance research methodologies and design that facilitate the potential for transformative change. One of these best practices projects is BiROFin. This project brings together leading economists from different disciplines (environmental, financial, international, welfare), and ecologists (biodiversity, Ecosystem Services) to explore how biodiversity and ecosystem services loss affect macroeconomic stability. The aim is to translate the complex relationship between nature and economy into clear, data-driven insights, quantifying the economic consequences of biodiversity loss. The project team aligns these analyses with existing climate and finance scenarios, setting the stage for long-term transformative change.

In this session we’ll share some of our first preliminary insights on how nature loss affects specific economic sectors, countries, and regions. The analysis highlights the cascading effects triggered by ecosystem service declines.

Furthermore we will showcase the projects co-creation process to develop analyses listing practical abatement measures and relevant nature-based solutions, complete with CAPEX and OPEX estimates. By mapping these pathways together with different consortium partners, we'll help financial institutions align investments with nature-positive outcomes while fostering new business models and sustainable growth.

Goals and objectives of the session:

Collect and share state of the art knowledge on the application possibilities of Ecosystem services mapping and valuation for improved decisionmaking procedures. Gain understanding on the role of es valuation in estimating macro economic effects of loss of nature. Gain understanding on the influence of climate in these kind of analysis. Build understanding and sense of relevance for diverse reseach consortia and public private partnerships and share best practices on co-design.

Planned output / Deliverables:

Overview of key findings and identified gaps on the role of es in estimating and analysing macro economic effects and systemic risk triggered by loss of nature. With the possibility to synthesize these findings into a whitepaper and/or eventually a published paper.

Session format:

We would like this to be a standard session and call for abstracts that focus on macro economic effects of biodiversity and ecosystem services loss, monetary valuation of ecosystem services, es-biodiversity-climate nexus scenario modelling, role of es in financial systemic risks, es and nature based solutions, cost estimates of nature based solutions, aligning nature related financial risks with relevant abatement measures

Voluntary contributions accepted:

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

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