

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: T6

Future scenario analysis and planning of biodiversity and ecosystem services by using the Nature Futures Framework from local to national scales

Hosts:

	Name	Organisation	E-mail
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Abstract:

Intergovernmental Science–Policy Platform on Biodiversity and Ecosystem Services (IPBES) established a task force on scenarios and models of biodiversity and ecosystem services to provide policy support tools and methodologies for scenario analysis and modelling of biodiversity and ecosystem services. As a part of the task force activities, Nature Futures Framework (NFF) was created as a flexible tool to support the development of scenarios and models of desirable futures for people and nature. Reflecting with ongoing activities by the task force on scenarios and models, a new project titled “Development of an Integrated Assessment Model linking Biodiversity and Socio–Economic Drivers, and its Social Application (IAM–B)” was launched in March 2024, with general funding from the Ministry of the Environment, Japan. This project quantitatively estimates the impacts of response options for climate change mitigation and adaptation, and biodiversity conservation and restoration under NFF oriented future scenarios/pathways up to 2050 in Japan. This session presents and shares latest studies which apply NFF for future scenarios building and analysis from different locations, scales and actors to promote co–designing sustainable futures from longer time perspective, co–organized by IPBES task force on scenarios and models, and IAM–B project.

Potential presentation titles:

- Operationalizing the Nature Futures Framework to catalyze the development of nature–future scenarios
- Developing NFF oriented narratives of national scale future scenarios in Japan
- Scenario analysis of biodiversity and ecosystem services: A NFF case study in Sado City, Japan
- Participatory and integrated local scenario development and modelling to support local landscape governance from ridge to the coast: A case study of Minamisanriku–town, northern Japan
- Changes in coastal ecosystem services via climate and socioecological transformation

Goals and objectives of the session:

This session will present latest studies which apply NFF for future scenarios building and analysis from different locations, scales and actors, including pathways to nature–based solutions from Asia, Oceania and other regions, to advance science–policy–society interface towards just, inclusive sustainable futures under diverse socio–cultural and environmental contexts respecting local communities and Indigenous ecological knowledge

and values. The session will provide different methodological approaches to apply and operationalize NFF, and share lessons, challenges and opportunities learned from various case studies.

Planned output / Deliverables:

- '- Special feature/issue of peer-reviewed journal such as Ecosystem Services
- Book from eBook series Science for Sustainable Societies from Springer Nature
- Overview article which summarizes key challenges and future research directions raised from this session
- Presentations and discussion at this session will be reflected to the NFF guideline which will be revised by November 2025
- Policy brief to summarize key policy recommendations based on the presentations and discussion at the session

Session format:

Regular session format with 90 min duration.

Voluntary contributions accepted:

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

Related to ESP Working Group:

[TWG 6 – Integrated valuation of ES](#)