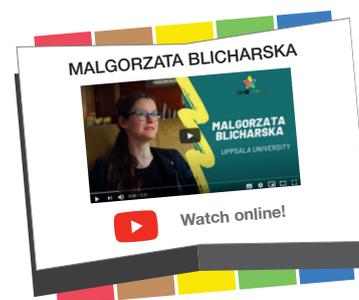


Cross-sectoral collaboration in Sweden



Boosting cross-sectoral collaboration is the key to raising awareness of societal Nexus challenges that fosters capacity building and optimizes policy making.

Key achievements

- Established a dialogue with stakeholders across all 5 Nexus sectors
- Performed a policy analysis of the Swedish Nexus and disentangled the complex interlinkages
- Co-developed a conceptual model of the Swedish Nexus together with stakeholders
- Collected data from different sectors to support drawing a comprehensive picture of the Swedish Nexus
- Translated the conceptual model into an operational System Dynamics Model
- Developed final policy recommendations (based on the policy analysis, inputs from stakeholders and results from the System Dynamics Model) that can help improve resource efficiency and carbon neutrality in Sweden

Findings

The Nexus challenges in Sweden are linked to forestry, water, energy, food and climate sectors. Major challenges are knowledge gaps and considerable **uncertainties** on how environmental systems will change and what their impacts will be. SIM4NEXUS has led to two key conclusions:

1. A Nexus approach is necessary to handle current challenges societies are facing, particularly about addressing climate change and efficient resources use. System Dynamics Modelling and Serious Gaming proved to be important tools for simulating the complex cross-sectoral interlinkages and more importantly for learning purposes. Nevertheless, due to data limitations and the related complexity of the Nexus system, such tools were suggested to be better **utilised for educational purposes** than for real-life decision making.
2. Adopting such a Nexus approach is a complex endeavour that requires comprehensive changes in the current policy-making and decision-making systems. **Interaction with stakeholders from different sectors**, including face-to-face cross-sectoral meetings (workshops), is necessary to increase awareness of Nexus issues and build the capacity of the different sectors for future improvements.

Key products

[Policy analysis report](#)

[Popular science article in Biodiverse magazine](#)

[Article in Ecosystem Services](#)

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