

★ **SELINA** SCIENCE FOR EVIDENCE-BASED
AND SUSTAINABLE DECISIONS ★
ABOUT NATURAL CAPITAL

Country Fact Sheet
DENMARK

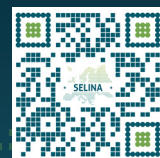


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Country Fact Sheet: Denmark (DK)

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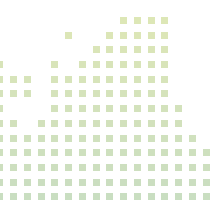
If you feel there are ongoing or upcoming research projects, policy initiatives or legislations, concerning the use of biodiversity, ecosystem condition and ecosystem services knowledge in decisions and policies, missing, please contact inge.liekens@vito.be and we will update the country fact sheet (until March 2027)

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Update on projects concerning biodiversity, ecosystem condition and ecosystem services assessment and accounting since 2022

In Denmark a series of projects have targeted the assessment of ecosystem services from 2014 onwards. The emphasis has been on developing a land use model to provide support for the analysis and evaluation of alternative policies. A Danish MAES process was set up and is led by the Nature Agency under the Ministry of the Environment in cooperation with scientific expertise at the universities of Aarhus and Copenhagen. The first report from the process was published (Termansen et al., 2015) and provides an assessment of the status of mapping of ecosystems, ecosystem services and biodiversity in Denmark in relation to MAES. Moreover, it provides a description of the relevant knowledge and data for mapping the economic value of ecosystem services and biodiversity.

An ES model with sixteen ES and biodiversity indicators (Termansen et al., 2017) was created for a

specific catchment. Based on this model a national scale model focusing on seven ES and biodiversity indicators was developed. The model has been used to evaluate policy scenarios for implementation of the water framework directive and the co-benefits of achieving water quality targets (Hasler et al., 2022).

The national Danish statistical office is preparing for future demands and requirements on ecosystem service accounting and has among other things established a development group to support this work.

Ecosystem services are often referred to in the work of the Danish Biodiversity Council. The council is an independent and research-based expert body consisting of experts in the field of nature and biodiversity in Denmark. The council is established by and advises the government and parliament on initiatives that can create better conditions for Danish nature.



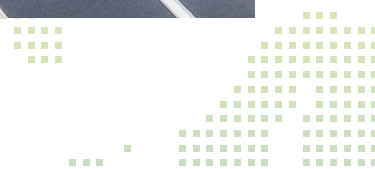
Examples of uptake in decision processes, regulations and/or legislation

No information available.



Perceived barriers and needs to enhance uptake

No information available.



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On the way to transformative change

The overall conclusion of the IPBES global assessment (IPBES 2019) was that Goals for conserving and sustainably using nature and achieving sustainability cannot be met by current trajectories, and goals for 2030 and beyond, may only be achieved through transformative changes across economic, social, political and technological factors.

Transformative or transformational change refers to “a fundamental, system-wide reorganization

across technological, economic and social factors, including paradigms, goals and values” (IPBES, 2019). Simply said, doing things really differently, rather than doing less or optimising the system.

A means to enhance uptake is bringing people of the quadruple helix together and exchange information and learn from each other. Another is to establish projects that can show that it works and lead to possible pathways of transformative change.

4.1 Community of practice

The Danish community of practice on ecosystem services has not been set up specifically for the SELINA project, but the SELINA project has enabled a revitalization of the existing network. This network, called ‘Dansk netværk om biodiversitet og økosystemtjenester’ (Danish network on biodiversity and ecosystem services), was established as part of the former ESMEALDA project. After the ESMEALDA project the network has been hosted by the Danish IPBES secretariat, which is supported by a group of six universities and the Ministry of Environment. The network is open for all persons interested in the subject and includes around 75 individuals from research, private companies, authorities and NGOs and lobby organization. The mission of the network is to strengthen knowledge sharing between those who study or work with biodiversity and ecosys-

tem service-related topics including research or policy in Denmark. The primary activity of the network is 1-3 annual network meetings dealing with relevant topics including presentations and discussions. More information on the network can be found on [the website of the Danish IPBES secretariate](#).

4.2 Seeds of transformative change

One project was received through the online survey:

■ **Pilot project - a comprehensive plan for Gudenå valley**

- The purpose of the pilot project is to create a platform for implementation of the Master Plan for the Gudenåen River.

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References

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Termansen, M., Hasler, B., Levin, G., Filippelli, R., Lundhede, T.H., Strange, N., Nainggolan, D., Bladt, J., Zandersen, M., 2023. National arealforvaltningsmodel for vand, klima, biodiversitet og friluftsliv., IFRO scientific report.

Project duration: 1 July 2022 – 30 June 2027

Keywords: biodiversity, ecosystems, ecosystem services, natural capital accounting, evidence-based decision-making, transformative change

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PROJECT PARTNERS

-  Leibniz University Hannover
-  Stichting Capitals Coalition
-  Ecostack Innovations Limited
-  University of Trento
-  Pensoft Publishers
-  Centre for Ecological Research
-  Mykolas Romeris University
-  Research Centre of the Slovenian Academy of Sciences and Arts
-  University of Patras
-  space4environment
-  National Institute of Geophysics, Geodesy and Geography
-  Rey Juan Carlos University
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-  Norwegian Institute for Natural Research
-  Estonian University of Life Sciences
-  The Cyprus Institute
-  Wageningen University
-  The Finnish Environment Institute
-  Global Change Research Institute SarVision
-  Ministry of the Environment of the Slovak Republic
-  Gaspar Frutuoso Foundation
-  Flemish Agency for Nature and Forest
-  Municipality of Trento
-  Ministry of Environment of the Republic of Lithuania
-  Ministry of Environmental Protection and Regional Development of the Republic of Latvia
-  Research Centre in Biodiversity and Genetic Resources
-  University of Haifa
-  COHAB Initiative Secretariat
-  KTH Royal Institute of Technology
-  Croatian Forest Research Institute
-  SEAcop
-  Macroplan
-  University of Reunion Island
-  Spatial Services
-  Asplan Viak
-  denkstatt
-  Wolfs Company, part of Grant Thornton
-  Ministry for the Ecological Transition and the Demographic Challenge
-  ETH Zürich
-  Joint Research Centre
-  UNEP-WCMC
-  South Atlantic Environmental Research Institute

