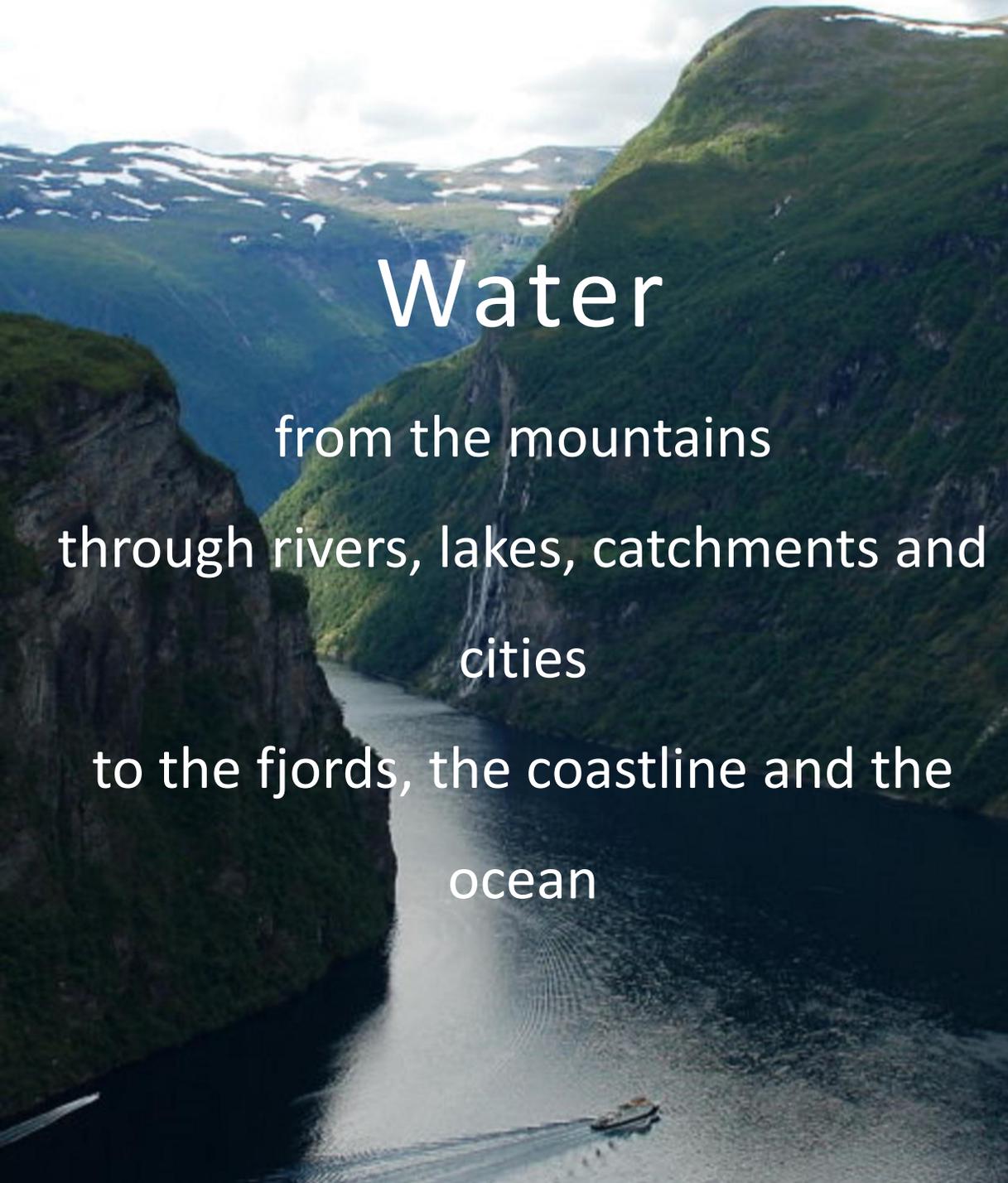


# NIVA Denmark

## 10-years anniversary

Pål Molander, CEO NIVA





# Water

from the mountains

through rivers, lakes, catchments and

cities

to the fjords, the coastline and the

ocean

## Research for a sustainable future

- NIVA is Norway's leading environmental research institute for the aquatic environment.
  - Interactions between water and climate, environment, nature and society
  - Freshwater and marine
- ⇒ NIVA is a sector institute
  - ⇒ Interdisciplinary
    - ⇒ Natural and social sciences
- National Institute, established by the Research Council of Norway in 1958. Private foundation since 1986, with national tasks.
- Relevant research of high quality – solution oriented

# NIVA / NIVA-group

- Norway's leading institute for water related research
  - Private non-profit foundation
  - Multidisciplinary
  - Public and private sector customers
    - Examples industrial customers: Process industry, aquaculture, energy
- Head office in Oslo, 4 regional offices in Norway 
  - Research station at Solbergstrand 40 km south of Oslo 
  - Office in Denmark, and subsidiaries in Chile and China 
- Subsidiary company: Akvaplan-niva with head office and research station in Tromsø, with 7 regional offices spread around Norway (and Iceland) and 7 local offices in Norway 

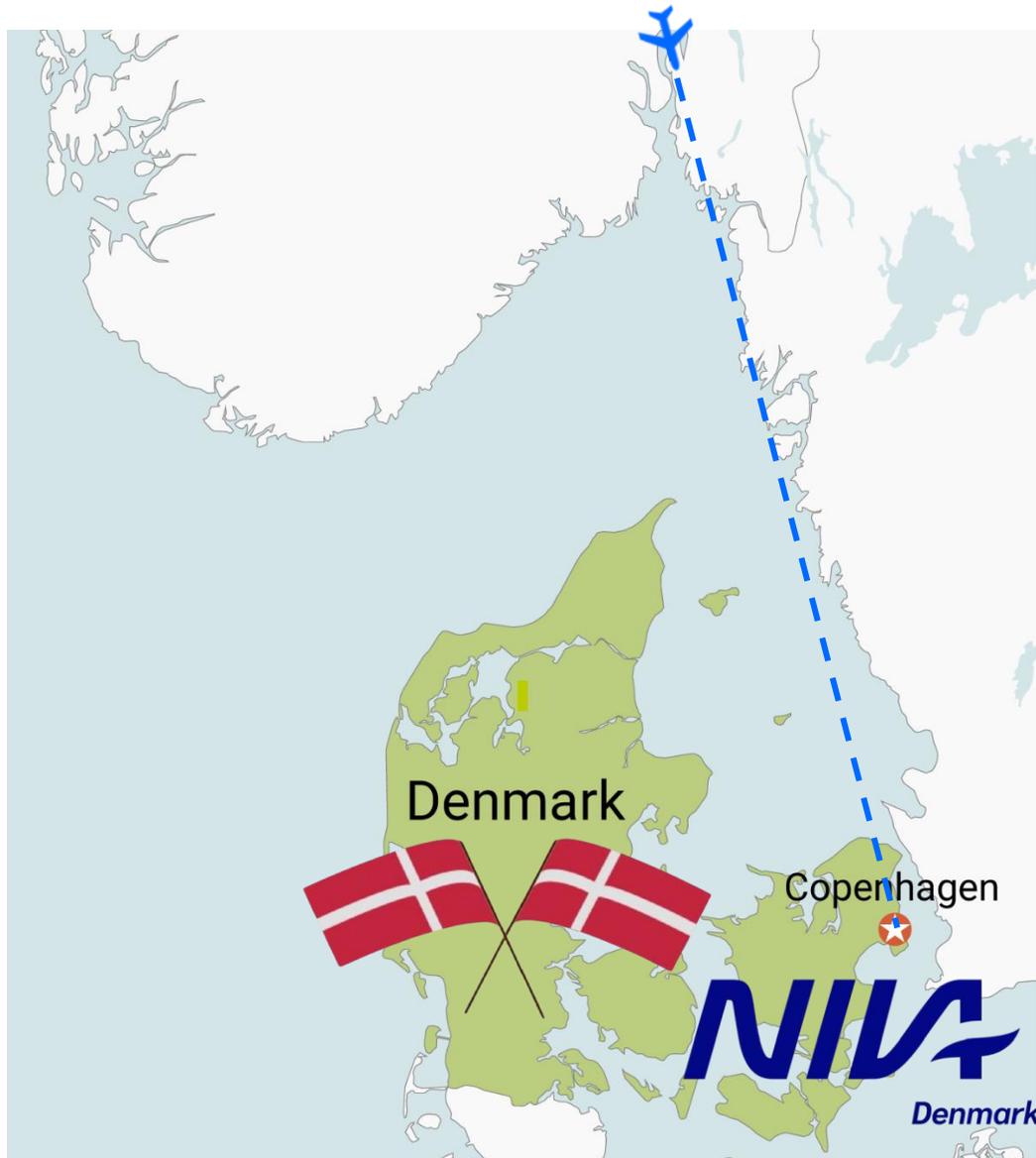


## Key figures NIVA-goup

- ~ 450 employees
- ~ 25 task specific laboratories
- ~ 900 active projects, 300 new annually
- ~ 2900 scientific papers last 10 years
- ~ 800 millions nkr annual gross turnover



# NIVA Denmark



## NIVA Denmark

- Est. Sept 1st 2014
  - 1 employee
  - Now +10 employees
- Contributes substantially to NIVA's goal achievements, results and innovation
  - Publications
  - Projects
  - Activities
    - AquaSYNC
    - European Environment Agency's Topic Centre on Biodiversity and Ecosystems
    - Many exciting new things in the pipeline

# Central publications originating from NIVA DK

## Reports and briefings ...

**NIVA**  
Denmark

RAPPORT L.NR. 7872-2023

Detektion af miljø-DNA med 'quantitative Polymerase Chain Reaction' (qPCR) sammenlignet med 'droplet digital Polymerase Chain Reaction' (ddPCR)



**NIVA**  
Denmark

RAPPORT L.NR. 7818-2023

Kortlægning af flodpertemusing i Varde Å-systemet ved brug af eDNA – en eftersøgning af nålen i høstakken

**NIVA**  
Denmark

7926-2024

### Samlede påvirkninger i de danske farvande

**SAMLEDE PÅVIRKNINGER**

Menneskelige aktiviteter påvirker havet omkring Danmark og økosystemenes naturlige balance. Forskellige aktiviteter kan virke i forening så den samlede påvirkning kan være større end summen af de enkelte påvirkninger.

**SAMLEDE PÅVIRKNINGER**

Miljøtilstand og resiliens

Forståelse for og vurdering af de samlede påvirkninger er vigtigt for beskyttelsen af havmiljøet

## Scientific papers, books and proceedings ...

- Aim: At least 1 paper per year per researcher ...

Science of the Total Environment 905 (2023) 157096

Contents lists available at ScienceDirect

Science of the Total Environment

journal homepage: www.elsevier.com/locate/scitotenv

Short Communication

Development and testing of a prototype indicator-based tool for identification of potential problem areas for marine litter in Europe's seas

Ciarán J. Murray<sup>a,b,c</sup>, Bert van Bavel<sup>d</sup>, Ahmet E. Kideys<sup>e</sup>, Amy L. Lusher<sup>f</sup>, Johnny Reker<sup>g</sup>, Gasper Subelj<sup>h</sup>, Jesper H. Andersen<sup>i,j</sup>

<sup>a</sup> NIVA Denmark Water Research, Copenhagen, Denmark  
<sup>b</sup> Aquatic Synthetic Research Centre (AquASYNCR), Copenhagen, Denmark  
<sup>c</sup> Norwegian Institute for Water Research (NIVA), Oslo, Norway  
<sup>d</sup> Institute of Marine Sciences, Middle East Technical University (METU), Erdemli-Marina, Turkey  
<sup>e</sup> European Environment Agency (EEA), Copenhagen, Denmark  
<sup>f</sup> Thematic Center for Water Research, Studies and Project Development (TC) Virolo, Ljubljana, Slovenia

frontiers | Frontiers in Ocean Sustainability

TYPE Policy and Practice Reviews  
 PUBLISHED 04 January 2024  
 DOI 10.3389/focu.2023.1308125

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### Addressing the cumulative impacts of multiple human pressures in marine systems, for the sustainable use of the seas

OPEN ACCESS

EDITED BY  
 Gillian Glegg,  
 University of Plymouth, United Kingdom

REVIEWED BY  
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Science of the Total Environment 821 (2022) 153095

Contents lists available at ScienceDirect

Science of the Total Environment

journal homepage: www.elsevier.com/locate/scitotenv

Monitoring of environmental DNA from nonindigenous species of algae, dinoflagellates and animals in the North East Atlantic

Steen Wilhelm Knudsen<sup>a,b,c</sup>, Martin Hesseløse<sup>a</sup>, Jens Thaulow<sup>a</sup>, Sune Agersnap<sup>d</sup>, Brian Klitgaard Hansen<sup>e</sup>, Magnus Wulff Jacobsen<sup>f</sup>, Dorte Bekkevold<sup>g</sup>, Søren K.S. Jensen<sup>h</sup>, Peter Rask Møller<sup>b,c</sup>, Jesper H. Andersen<sup>a</sup>

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Article

### The recovery of European freshwater biodiversity has come to a halt

<https://doi.org/10.1038/s41586-023-06400-1>

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 Published online: 9 August 2023

Open access  
 Check for updates

Owing to a long history of anthropogenic pressures, freshwater ecosystems are among the most vulnerable to biodiversity loss<sup>1</sup>. Mitigation measures, including wastewater treatment and hydromorphological restoration, have aimed to improve environmental quality and foster the recovery of freshwater biodiversity<sup>2</sup>. Here, using 1,816 time series of freshwater invertebrate communities collected across 22 European countries between 1968 and 2020, we quantified temporal trends in taxonomic and functional diversity and their responses to environmental pressures and gradients. We observed overall increases in taxon richness (0.73% per year), functional richness (2.4% per year) and abundance (1.17% per year). However, these increases primarily occurred before the 2010s, and have since plateaued. Freshwater communities downstream of dams, urban areas and cropland were less likely to experience recovery. Communities at sites with faster rates of warming had fewer gains in taxon richness, functional richness and abundance. Although biodiversity gains in the 1990s and 2000s probably reflect the effectiveness of water-quality improvements and restoration projects, the decelerating trajectory in the 2010s suggests that the current measures offer diminishing returns. Given new and persistent pressures on freshwater ecosystems, including emerging pollutants, climate change and the spread of invasive species, we call for additional mitigation to revive the recovery of freshwater biodiversity.

582 | Nature | Vol 620 | 17 August 2023

Ambio 2023, 52:1981–1991  
<https://doi.org/10.1007/s13280-023-01896-3>

KUNGL. VETENSKAPS AKADEMIEN  
 THE SWED. ACADEMY OF SCIENCES

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PERSPECTIVE

### Are European Blue Economy ambitions in conflict with European environmental visions?

Jesper H. Andersen<sup>1</sup>, Ziyad Al-Hamdani, Jacob Carstensen, Karen Edelvang, Josefine Egekvist, Berit C. Kaae, Kathrine J. Hammer, Eva Therese Harvey, Jørgen O. Leth, Will McClintock, Ciarán Murray, Anton S. Olafsson, Jeppe Olsen, Signe Sveegaard, Jakob Tougaard



**NIDA**

**NIDA** - a global voice

**Thank you all for contributing to and attending NIVA  
Denmark's 10-years anniversary!**

**Congratulations to all of the employees of NIVA Denmark!**



