



NORCE Norwegian Research Centre

18.05.2025



950
NOK mill.



750
employees



50
nationalities



75%
doctoral degrees



Independent Norwegian research institute dedicated to finding solutions to key societal challenges

Bridge the gap between research and innovation, contributing to a sustainable future

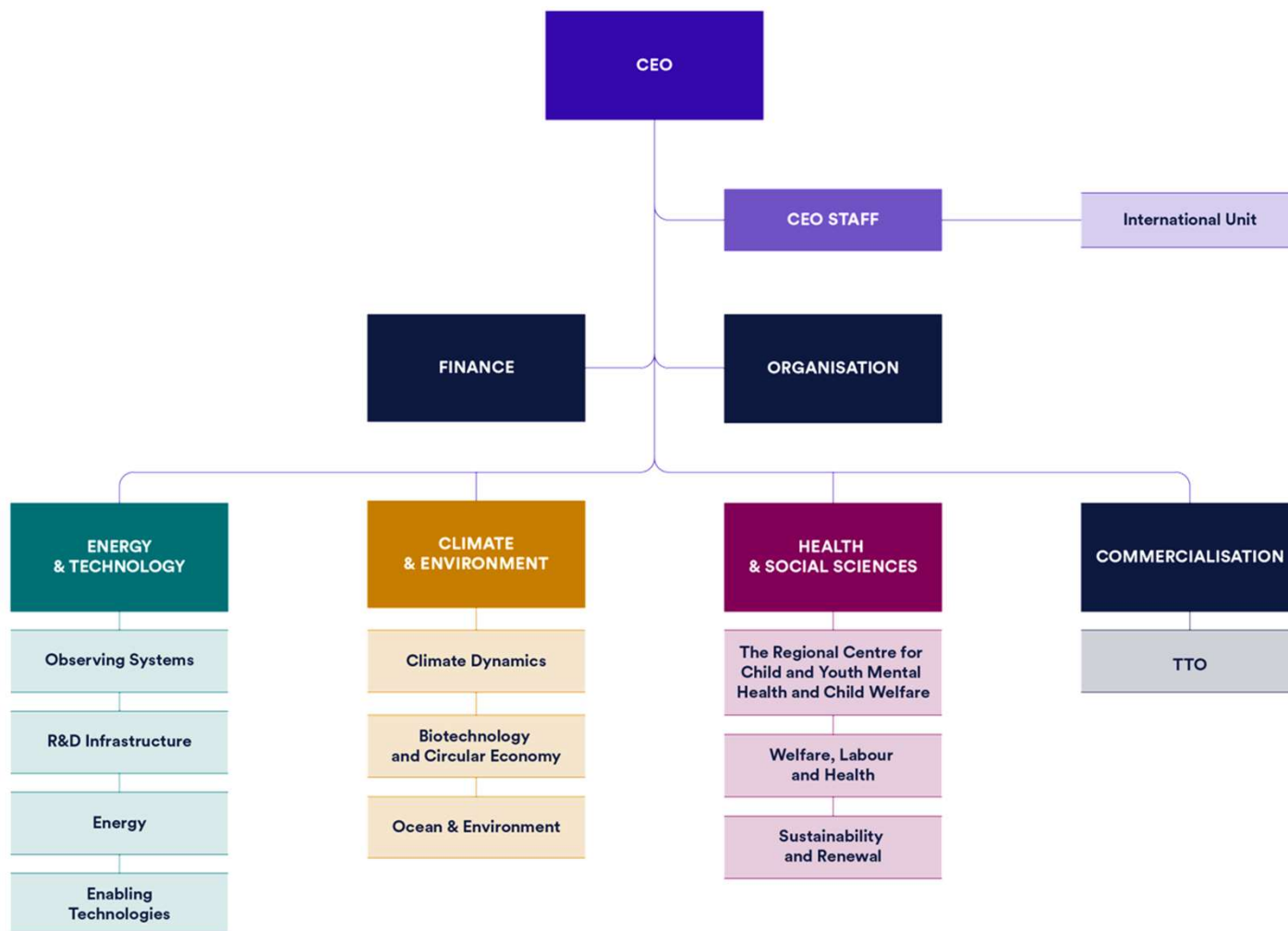
Operate across a broad range of disciplines

Collaborate with partners in academia, industry, and the public sector, both nationally and internationally

Combination of project-based funding (national and international), core funding from the Norwegian government, and industry partnerships

Impact focused – knowledge dissemination, commercialization, policy influence

HOW ARE WE ORGANISED



The logo for NORCE, featuring the word "NORCE" in a white, sans-serif font. The letter "O" is replaced by a circular icon composed of small white dots arranged in a ring.

NORCE

A wide-angle photograph of an offshore wind farm at dusk or dawn. The sky is a deep blue with some light clouds. The water is dark and calm, reflecting the lights from the wind turbines. A long line of white wind turbines stretches from the left side of the frame towards the right, receding into the distance. The turbines are three-bladed and mounted on tall, slender towers. The overall mood is serene and futuristic.

Energy and Technology

18.05.2025



Energy & Technology Main capacities

Energy

Energy systems integration

Hydrogen (production, transport, storage, use)

Renewable energies (CCU, geothermal, off-shore wind, ocean technologies, hydropower)

Subsurface knowledge & geoscience (CCS, H2 storage)

Key Enabling Technologies

AI, robotics, data (ADRA membership)

Data processing, machine learning, development of decision-making systems

Advanced sensors & computer vision

➔ Cost reduction, increased efficiency, and improved safety

Observation Systems

Earth observation from satellite (soil, forestry, agriculture, ocean, snow/ice)

Real time monitoring and large data sets collection (from drones and research aircraft)

Sensor development and integration into drones

Ocean analysis, measurements and forecasting (waves, winds, currents)

Sectors: Food, renewable energy, transport, manufacturing, process industry, construction, raw materials, marine/maritime, health, circular economy



Energy & Technology Infrastructure

Research Aircraft



Drones &
Autonomous systems



Ullrigg test center



Mechatronics
innovation lab



Advanced suburface
flow laboratory



Climate and Environment

18.05.2025



Climate & Environment Main capacities & sectors

Climate

Climate change prediction, adaptation and mitigation

Climate modelling, assessment of climate risks

Co-production and co-creation with stakeholders and user partners

Satellite observation

Biotech and circular economy

Marine biotech (microalgae, exploration of marine resources, enzymes discovery and conversion to high-value products)

Industrial biotech (fermentation, use of alternative feedstocks, access to unique infrastructure with a bioreactor)

Gene technology, molecular analysis of GMOs, Ethical, legal and Social aspects

Sustainable fuels from waste and microalgae

Ecology

Marine and fresh water ecology

Fish biology and nutrition

Ecotoxicology

Aquaculture

Ocean observation

Sectors: Food, feed, agriculture, aquaculture, water, energy, cities/urban/rural, polar regions, crisis/disaster resilience and preparedness, finance.



Climate & Environment Infrastructure

National
Algaepilot
Mongstad



Norwegian
Bioprocessing &
Fermentation Centre
(NBioC)



NORCE Technology
Park Risavika



NORCE's Marine
Research Station In
Mekjarvik





Health and Social science

18.05.2025



Health & Social science Main capacities

Social innovation

Public /social acceptance studies

Stakeholder engagement / multi-actor approach

Economic aspects of sustainability

Understanding society's handling of challenges
(qualitative and quantitative methods)

Analysis of policy landscapes

Social modeling and AI

Conceptual and computational models for analyzing and
predicting psychological and societal change

Social simulation using agent-based modeling ("Social Digital
Twin")

Cutting-edge tools to address complex societal challenges

Public sector focus (policy, democracy, elections, civil society)

Sectors: Food, climate, ocean, transport, energy, but **methods can be adapted to many others.**

NORCE: EU R&I Participation



- Contributes to Norway's top-10 position in Horizon Europe
- 2nd leading RTO in Norway (recipient of EU and shared-management grants)
- Good performance in Pillar II, especially
 - Cluster 5 – Climate, Energy and Mobility
 - Cluster 6 – Food, Bioeconomy, Natural Resources, Agriculture and Environment
 - Cluster 4 – Digital, Industry and Space
 - Research Infrastructures
 - European Partnerships e.g. CETP, SBEP
- Success rate is higher than EU average (28%)*, especially as Coordinator (32 %)*; 26% as Partner*
- Collaborations with major Norwegian Organisations (e.g. EQUINOR, TOTALE ENERGIES, ELKEM, SINTEF, NTNU, UiB, BERGEN COMMUNE, NORWEGIAN RAILWAY DIRECTORATE)

* average for 2021-2024

Orienting toward Cluster 3 topics



NORWAY

- National research system shall facilitate the research frontier to a greater extent and can be applied to issues relevant to defense, security and preparedness, and strengthen society's overall resilience
- The Norwegian government will support the coordination of a research system for open, protected and classified research will require changes in the defence sector, on the civilian side and in the interface between the civilian and military sides

NORCE

- new strategic initiative adopted by the board of NORCE - important for NORCE to have a strategic investment in this
 - Identify and build strategic partnerships and collaborations, and participate in key networks
 - NORCE signed a collaboration agreement with Naval Group - one of the four organisations that are positioning themselves to build frigates for Norway
 - Agreement was signed in connection with the application for a center for maritime AI to the Research Council
 - At national level, building strategic partnerships with Digital Norway, Norwegian Armed Forces, Norwegian Defence Research Establishment (FFI)
 - Establish a centre for defence, civil protection and emergency preparedness with Tromsø as a node
 - Building a digital twin for social simulation in crisis and emergency preparedness

Thank you. Takk.
Merci. Gracias. Obrigado.

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