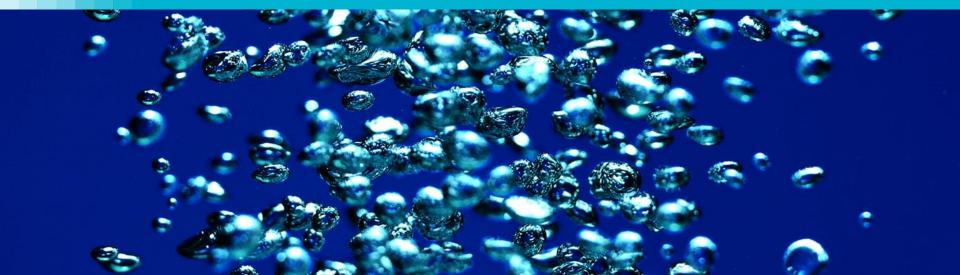


Norwegian Research Landscape

Jesper Werdelin Simonsen, Executive Director Research Council of Norway





Norway – a sparsely populated country in the North

N. C.



Norwegian economy

- Strong wealth creation, high employment
- Investing the oil revenue
 - Government Pension Fund Global
 - More than USD 540 billion, and growing
 - Largest stock owner in Europe
- Welfare state



Norway's energy sources and industrial competence

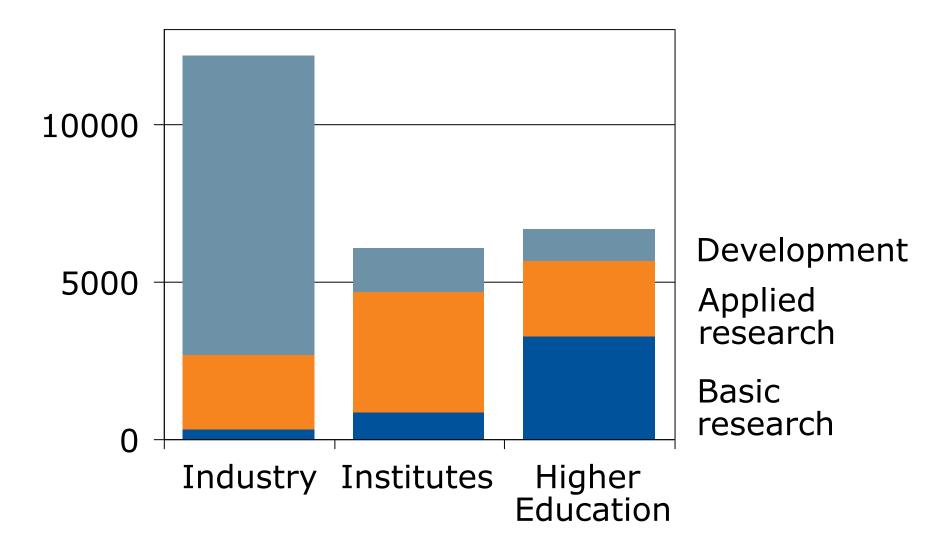
Resource based industries: Internationally oriented and highly competitive

- Energy: oil, gas and hydro power
- Fishery: catch and aquaculture
- Shipping and shipbuilding
- Process and material industries: aluminium and silicon





Three different research sectors with different roles in Norway



Potential Norwegian partners for Czech-Norwegian Research Programme

- A. Higher education institutions
 - 8 universities

Forskningsrådet

- 9 specialised university institutions
- 20 state university colleges
- B. 51 research institutes
 - Technology and industry
 - Environment
 - Society
 - Regional
 - Primary sector
- C. Institutions with international orientation
- D. Centres of excellence or special priority





More international research collaboration-

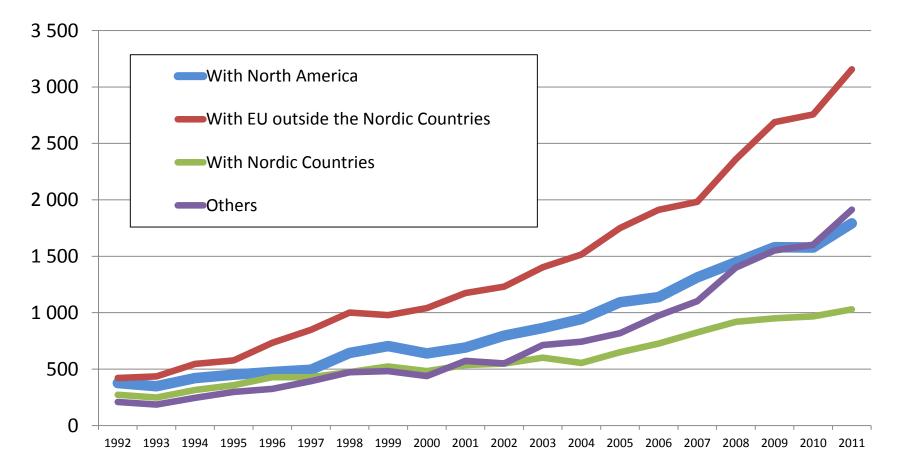
articles with Norwegian author(s)





Norwegian co-authorship with four regions

International co-authorship has increased by 150 percent over the last ten years





Norwegian R&D-production - fields above Norway's overall share (0,75)

Field		Impact vs. world (citations-per-paper)
Geosciences	2,04	+26
Environment/Ecology	1,48	+39
Plant & Animal Science	1,23	+34
Economics & Business	1,21	Even
Social Sciences	1,07	+8
Psychiatry/Psychology	1,01	-18
Immunology	0,96	-11
Clinical Medicine	0,86	+41
Agricultural Sciences	0,82	+38
Neuroscience & Behavior	0,77	+11

SOURCE: Science Watch.



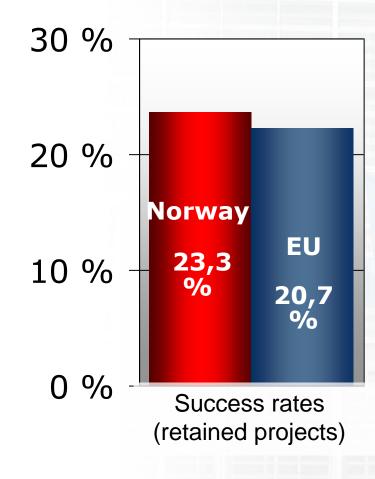
Norwegian R&D-production - citations above world field average (%)

	Impact vs. world
Other fields	(citations-per-paper)
Microbiology	+20
Mathematics	+36
Space Science	+43
Physics	+50





C. Norwegian participation in EU FP7 (as per March 2013)



- Norway participates in over 6 % of all FP7 projects
- 1218 Norwegian projects retained
- 23% of those projects are coordinated from Norway
- EU-contribution 4,2 billion NOK
- about 5300 researchers from Norwegian institutions involved
- Collaborative relationships with 121 countries



The Research Council of Norway

- Cover all fields, from basic research to development
- Adviser to the government
- Research funding
 - Support basic research
 - Implement national thematic priorities
 - Support private R&D
- Networking and dissemination
- Internationalization

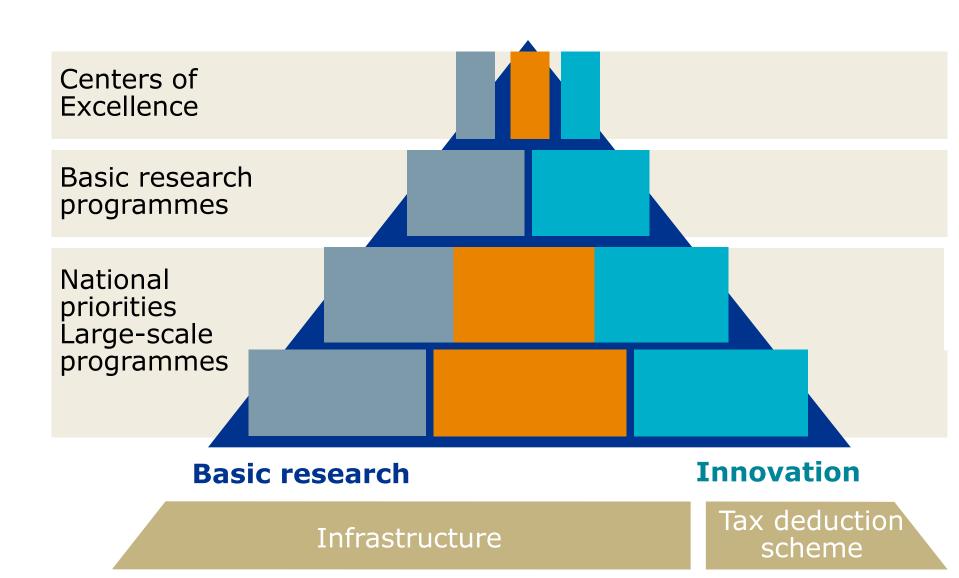


The Research Council distributes about 30 % of total public spending on R&D in Norway





National research funding schemes





Important funding instrument: Large-scale programmes

- Strategic, long-term knowledge development to meet national research-policy priorities
- Strategic and dynamic arena for communication and cooperation



BIOTEK2012 Biotechnology for Innovation



PETROMAKS

Optimal Management of Petroleum Resources



NANO2012 Nanotechnology and New Materials



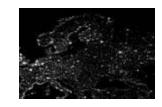




AQUACULTURE An Industry in Growth



RENERGI Clean Energy for the Future



VERDIKT Core Competence and Growth in ICT

NEW

Health and welfare

under development

Large-scale Programmes

The RCN initiative to meet national research priorities



Norwegian Centers of Excellence

Theoretical chemistry Theoretical linguistics

Communication systems Ships and ocean structures Biology of memory

Geo- biosphere Climate research Medieval studies Petroleum research

2003 2008

Economics Mind in Nature Ecology Cancer biomedicine Immune regulation Biomedicine and IT Neuroscience **Mathematics** Civil wars Physics/Geology Geohazards

Aquaculture protein



Norwegian Centers of Excellence

Theoretical chemistry Arctic Gas Hydrate

Autonomous Marine Operations Molecular Inflammation Neural Computation Biodiversity Dynamics

Geo- biosphere

Space Science Maternal and Child Health Cancer Biomarkers



Economics Mind in Nature Ecology Cancer biomedicine Immune regulation Biomedicine and IT Judiciary in the Global Order Mental Disorders Multilingualism Earth Evolution

Environmental Radioactivity



Our role in EEA and Norway Grants

Donor Programme Partner in research

- advises on programme development and implementation
- facilitates contact and information flow
- nominates Norwegian members of Programme Committee (PC)
- observer status in PC

Flow of good practice

- Czech Republic
- Latvia
- Estonia
- Poland
- Hungary
- Romania
- Norway





Thank you for your attention

www.rcn.no/eea



D. Centres for Research-based Innovation

Petroleum operations-

Concrete

Medical imaging

Aquaculture technology

Future manufacturing

Structural impact

Arctic marine technology -

Measurement technology Service innovation

Sustainable fish – capture

Salmon louse

Drilling and well technology

Telemedicine Marine bioactives

Search engines Natural gas Multiphase flow Statistics for innovation Stem cells Cardiology Software systems



D. Centres for Environment-friendly Energy Research

Climate, energy and industry

CO₂ capture and storage

Offshore wind technology

Offshore _____ wind energy CO₂ storage / Renewable energy systems

> Zero emission buildings

International politics and energy systems National energy policy Solar cell technology

Bioenergy

Forskningsrådet



Infrastructure A roadmap for investment

National Financing Initiative for Research Infrastructure

- 40 projects funded so far
- Promote cooperation with best international research groups
- Secure equal access to infrastructure

Example of implemented large-scale facility:

 Biobank Norway (NTNU, UiT, UiO, UiB, FHI, 4 Regional Health Authorities)

