

# The Research Council of Norway

## Introduction to the Information Exchange Event

### JRC – Norway

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# Global Challenges

*Science is challenged – the climate, energy and economic crisis affects all nations and challenges all academic disciplines*

Climate change  
- CO2 emission

Economic growth  
– unsustainable  
energy demand

Poverty reduction  
- Food security



# The Research Council of Norway

## - A key player in Norwegian research

- Covers all science and technology fields
- Recommends and encourages the pursuit of national policies
- Initiates and supports scientific and engineering research
- Allocates about 30 % of all public Norwegian R&D expenditures
- Budget of about 7 billion NOK



# The Research Policy System



16 Ministries



The Research Council is a strategic body



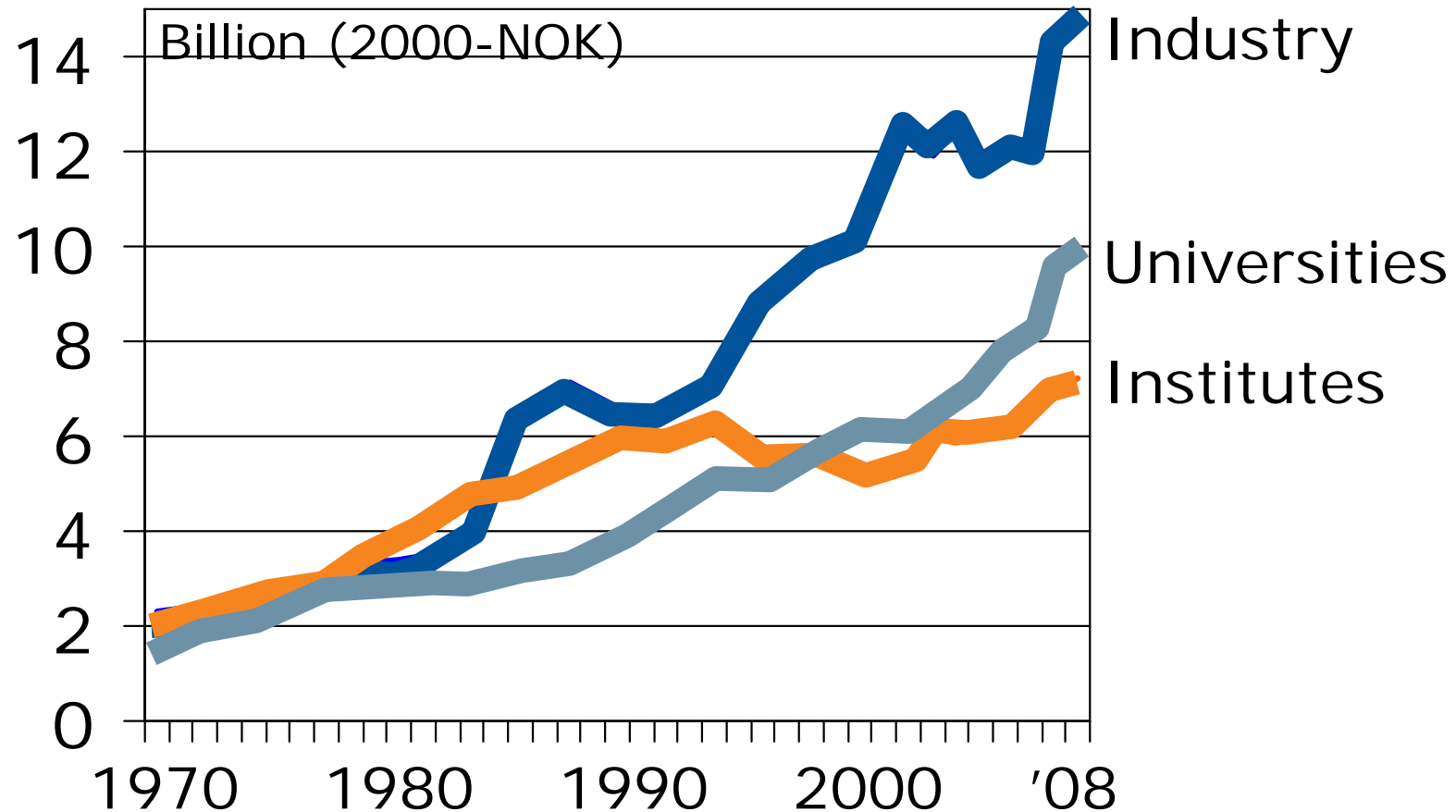
Research institutions



# The Research Council canalises nearly 30 % of public funding of Norwegian R&D



# Development in total Norwegian R&D expenditure (1970-2008)



# The Council is a Key Player in the National Research and Innovation System



Council Strategy

Dialogue  
and Policy  
Development

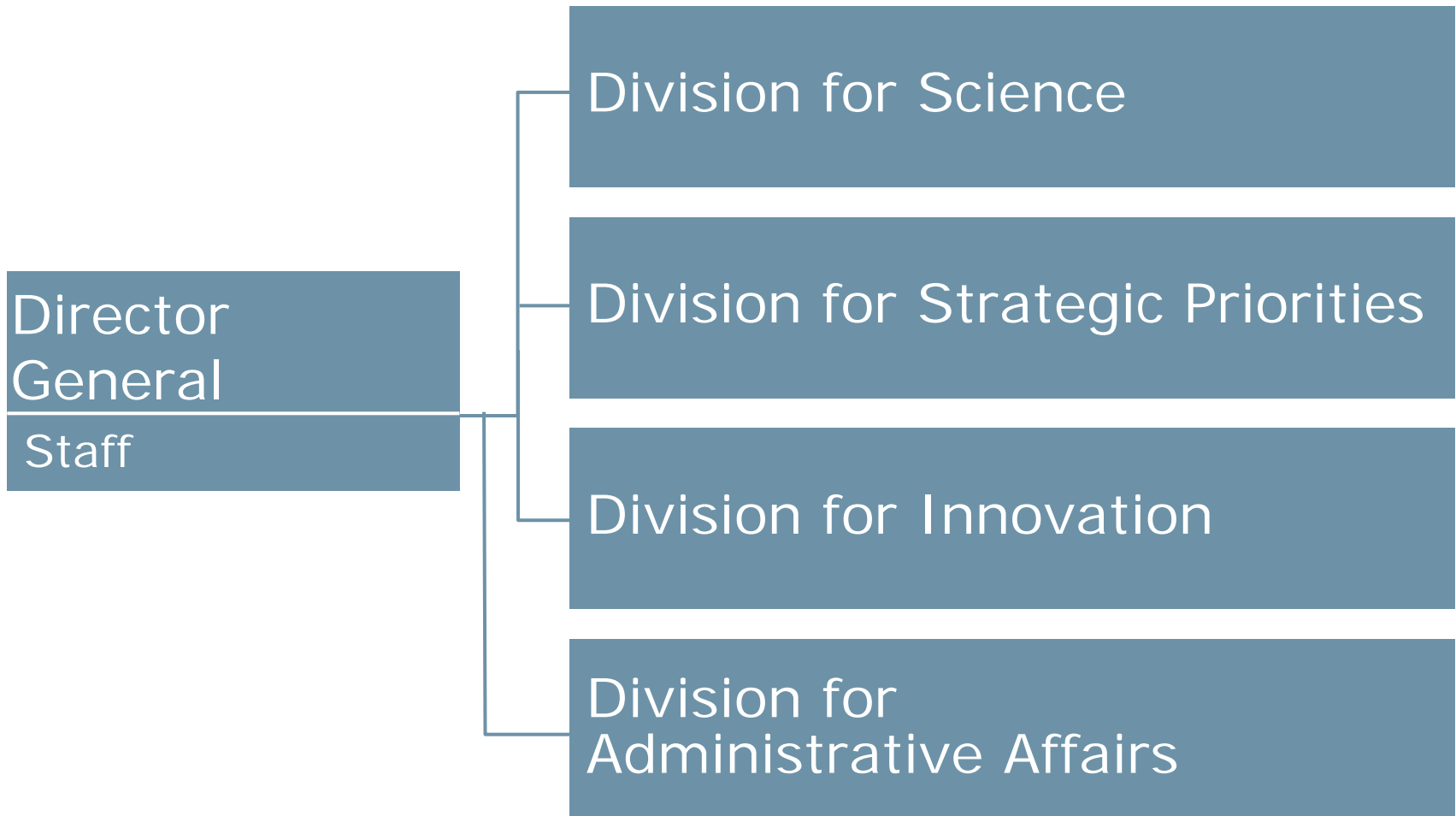


Government White Paper

# New white paper on research: From budgets to results



# The Research Council of Norway



# Extensive external participation in Council activities

Boards

Executive Board

Division board

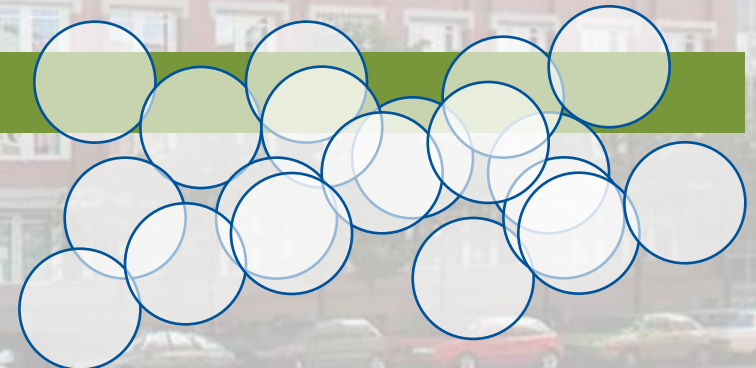
Division board

Division board

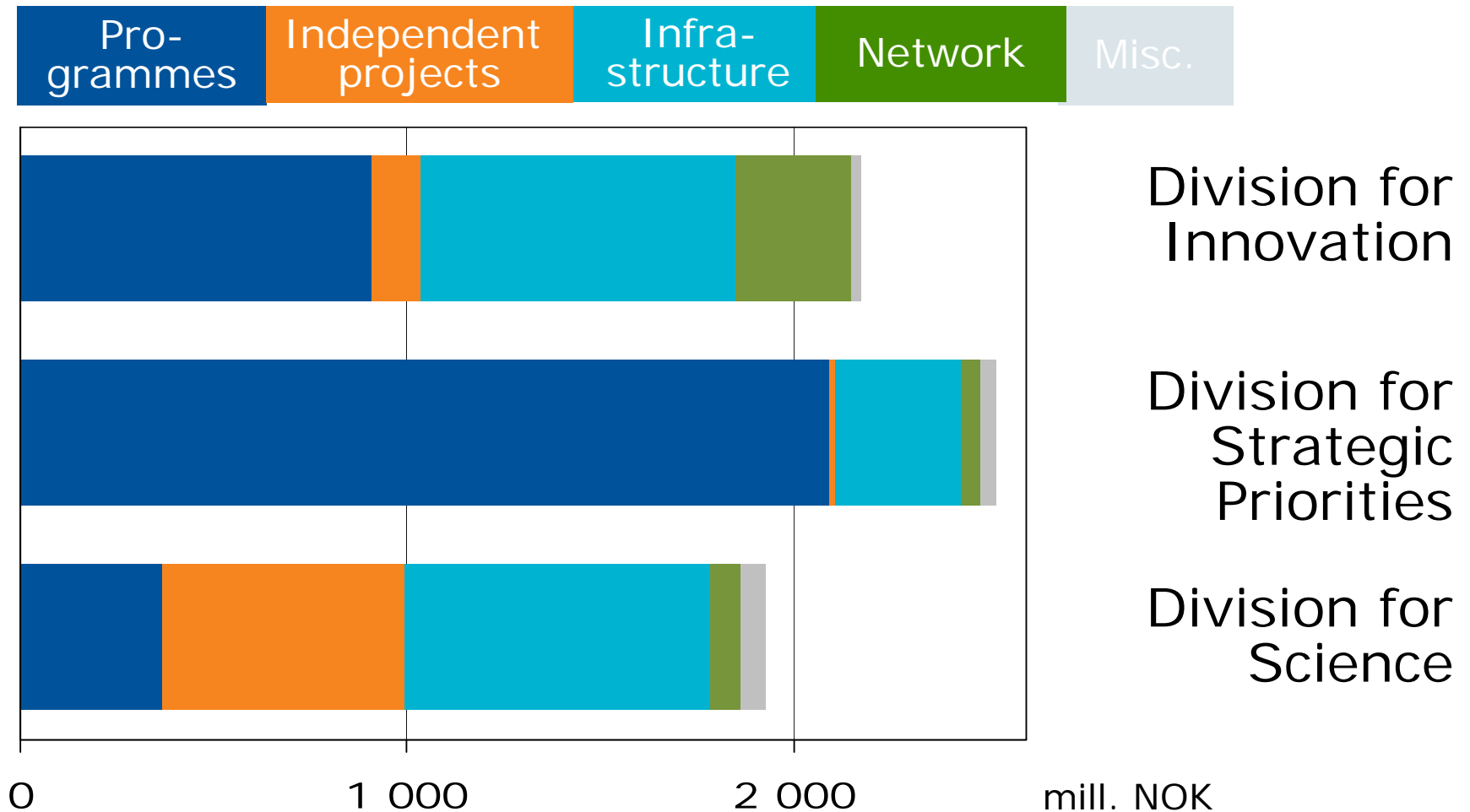
Panels and committees

Committees

Meeting-place

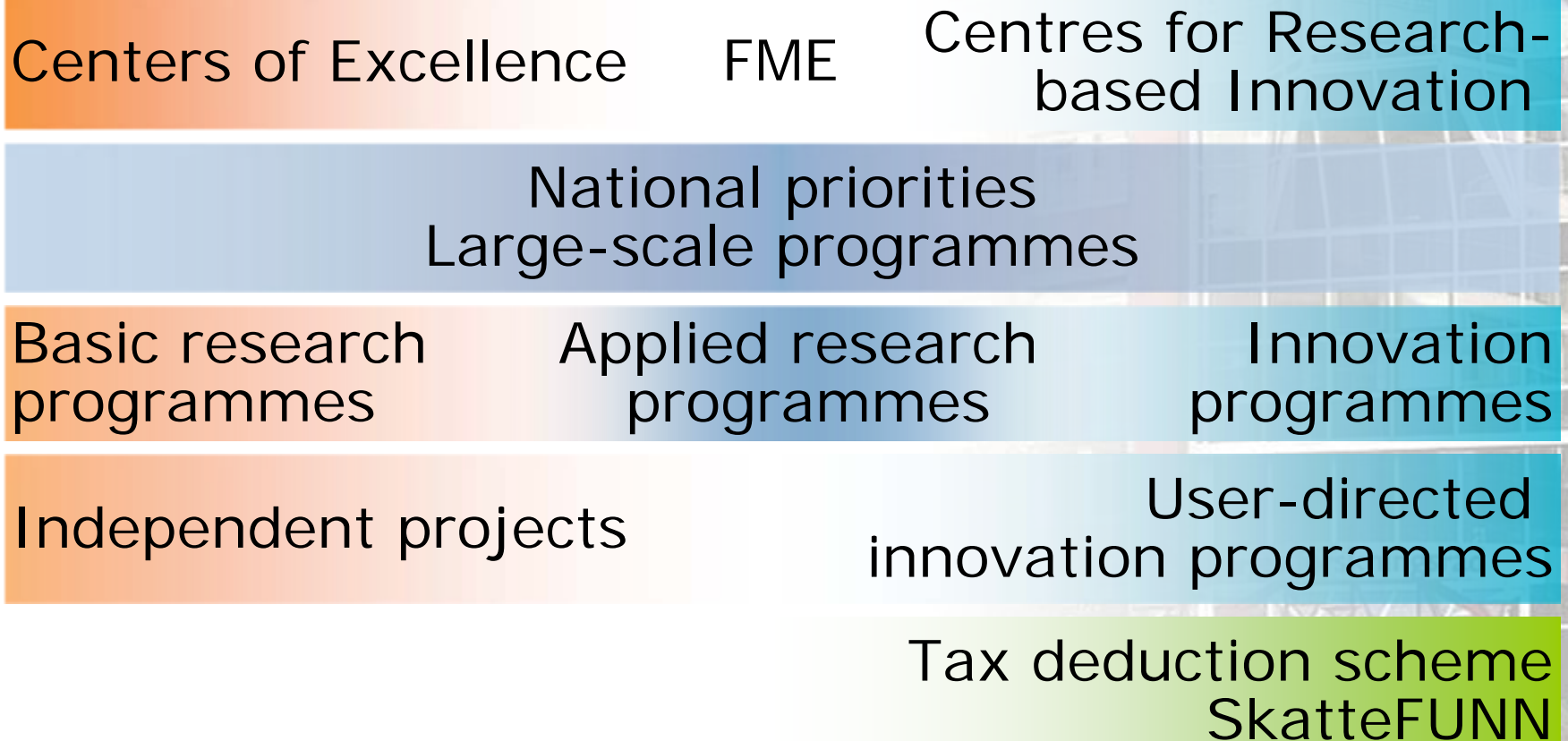


# The distribution of funds (2010)

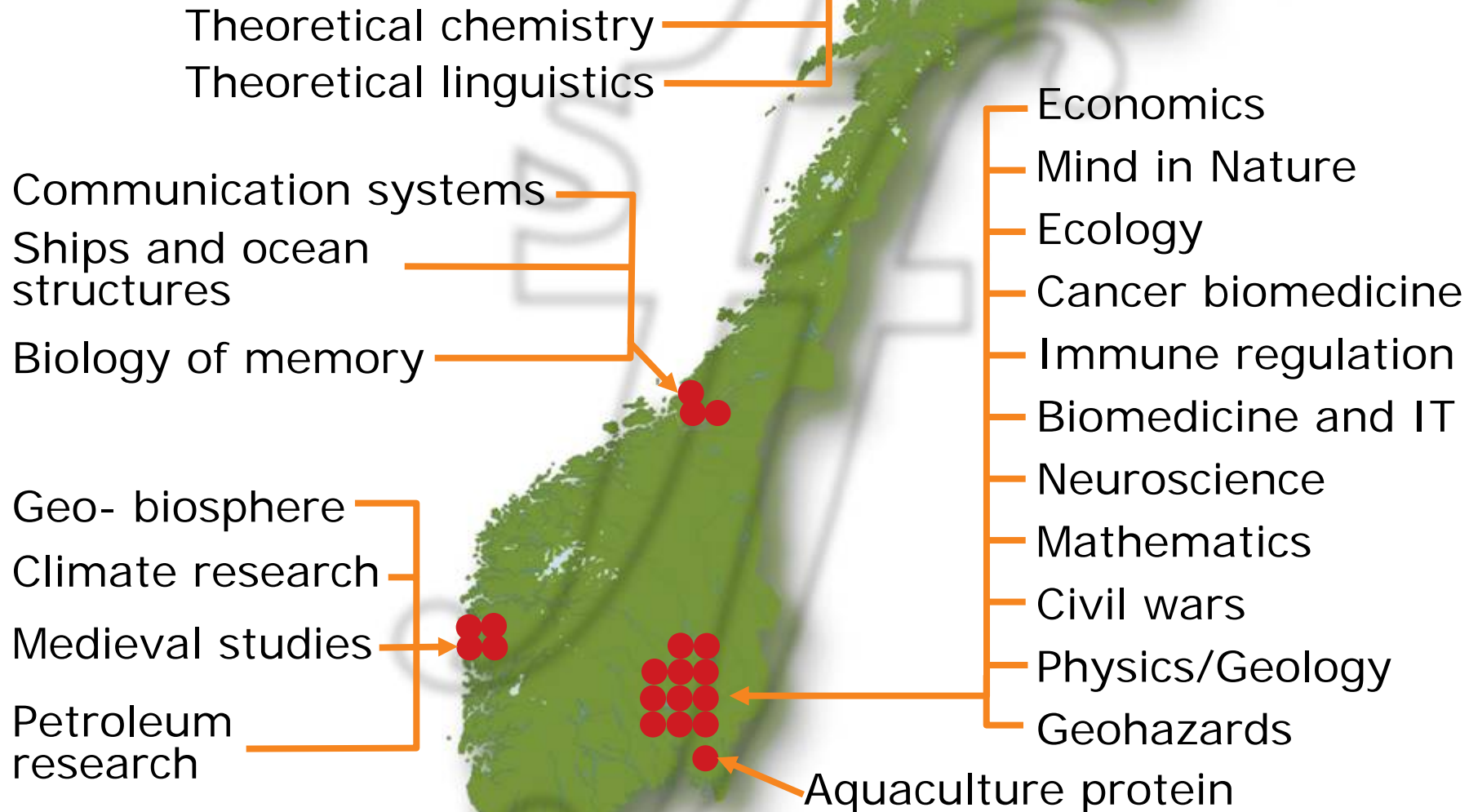


Total NOK 7073 mill. administration incl.

# Several funding schemes



# Norwegian Centers of Excellence



# Centres for Research-based Innovation

Integrated  
operations in  
the petroleum industry

Concrete – new  
qualities and uses

Medical imaging

Aquaculture  
technology

Future manufacturing  
solutions

Structural impact

Industrial  
measurement  
technology



Telemedicine

Marine bioactives  
and drug discovery



Next generation  
search engines

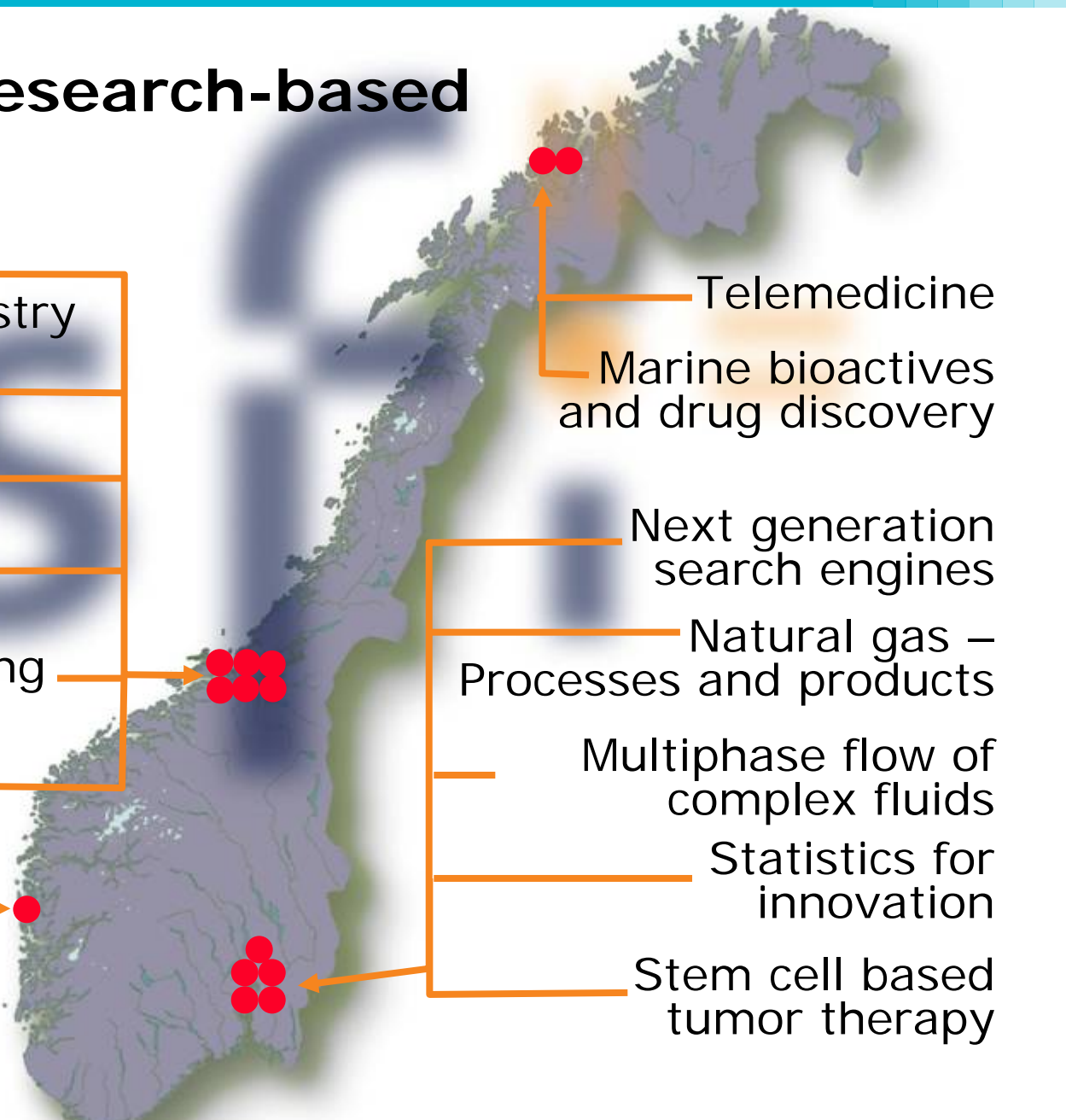
Natural gas –  
Processes and products

Multiphase flow of  
complex fluids

Statistics for  
innovation



Stem cell based  
tumor therapy



# FME; Centres for Environment-friendly Energy Research

CO<sub>2</sub> capture  
and storage

Offshore  
wind technology

Offshore  
wind energy

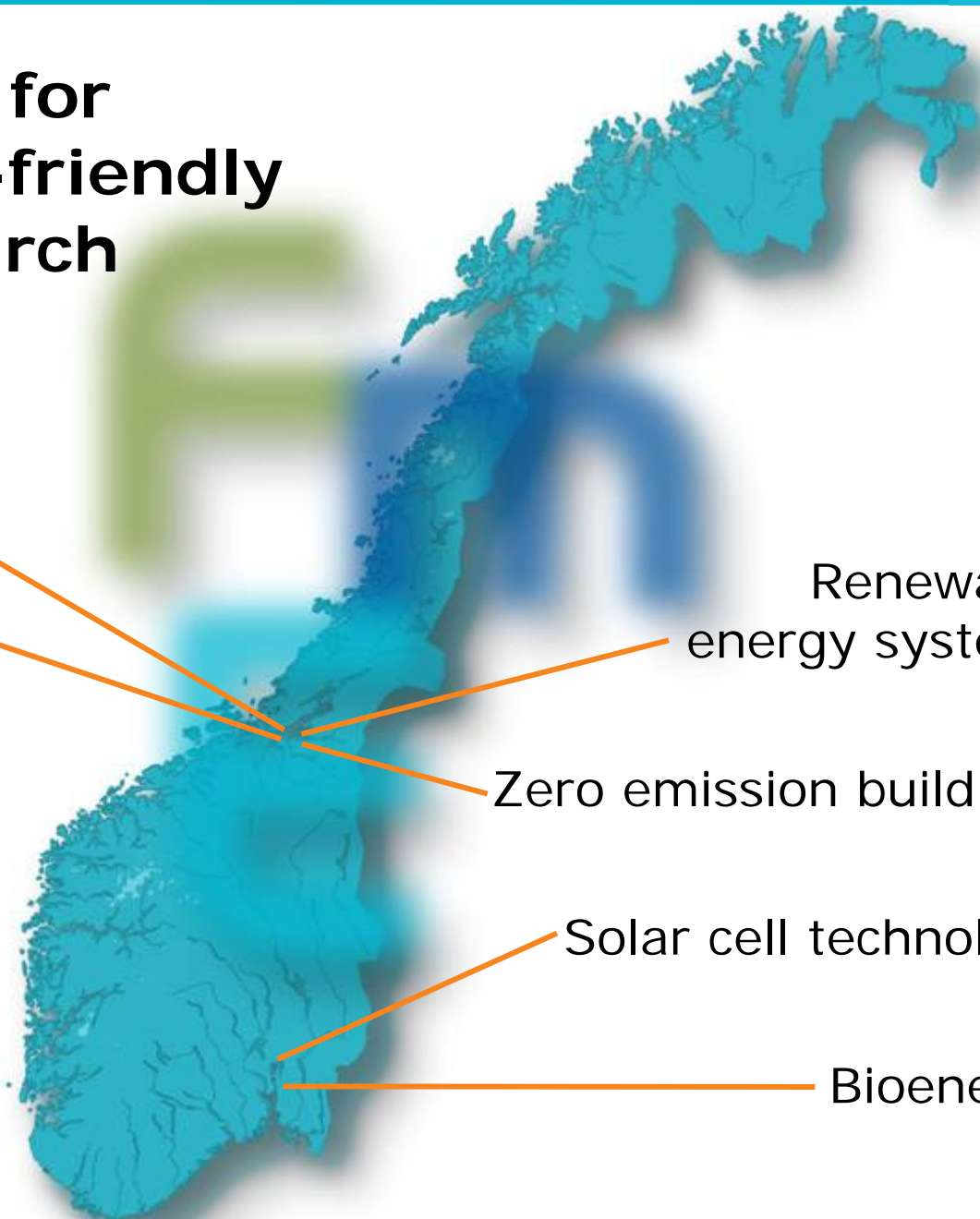
CO<sub>2</sub> storage

Renewable  
energy systems

Zero emission buildings

Solar cell technology

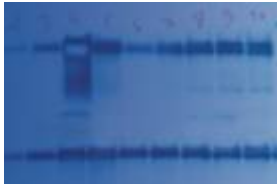
Bioenergy



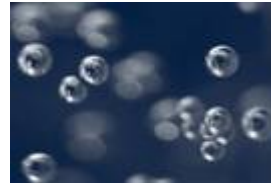
# Large-scale programmes



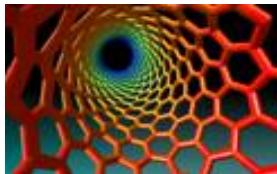
- Strategic, long-term knowledge development to meet national research-policy priorities
- Strategic and dynamic arena for communication and cooperation



**FUGE**  
Functional Genomics  
in Norway



**PETROMAKS**  
Optimal Management  
of Petroleum Resources



**NANOMAT**  
Nanotechnology  
and New Materials



**NORKLIMA**  
Climate Change and  
its Impacts in Norway



**AQUACULTURE**  
An Industry in  
Growth



**VERDIKT**  
Core Competence  
and Growth in ICT



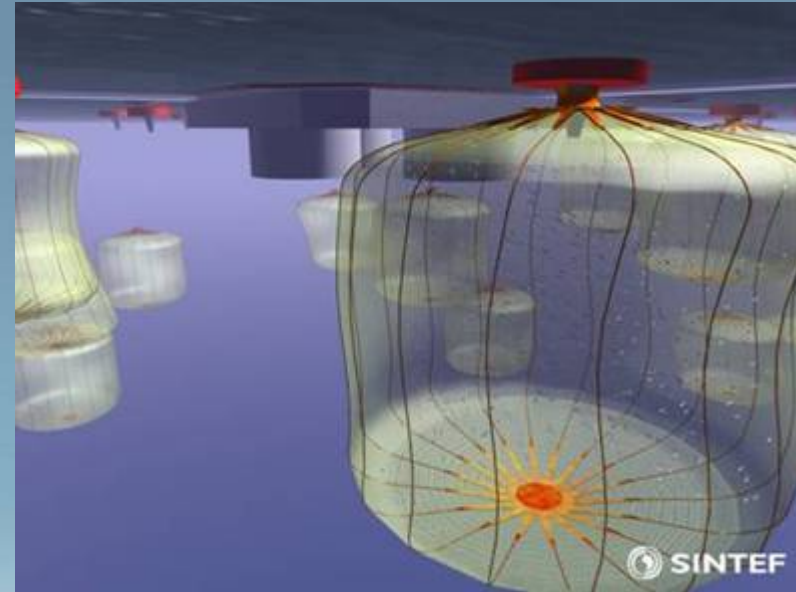
**RENERGI**  
Clean Energy  
for the Future

# Maritime traditions and later petroleum industry – basis for a new adventure in offshore wind?



# Aquaculture for the future – need for basic and applied studies

- Production biology
- Technology
- Feed
- Fish health
- Food safety
- Sustainability



Utilizing knowledge based on biotechnology,  
material-/nanotechnology, ICT

# Norway – An Arctic Nation

- Norway an important contributor to global polar and climate research
- Norway has territories in the Arctic and claims in Antarctica
- The climate changes in the Arctic more rapid and have greater impacts



# Increased activity in the High North



# The Research Council's High North strategy

Challenges and opportunities in the North:

1. Petroleum activity
2. The environment and marine resources
3. Innovation and industrial development
4. Living conditions
5. Foreign policy and the Arctic dimension
6. Exploiting the unique research potential of the northern areas



# Svalbard an important Arctic research arena

- 30 000 research days (2006)
- 18-20 nations



Greenland

- The North Pole

 Svalbard

Norway



# Conclusions

- Grand challenges
  - global challenges
  - welfare
  - value creation
- Grand challenges and grand possibilities for the research councils
- The Research Council of Norway is in position

