

# INTRODUCTION TO NTNU

NTNU and UiB Network Conference  
Brussels 3 October 2016  
Pro-Rector Johan E. Hustad



NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

**KNOWLEDGE FOR  
A BETTER WORLD**

TRONDHEIM | GJØVIK | ÅLESUND



NTNU

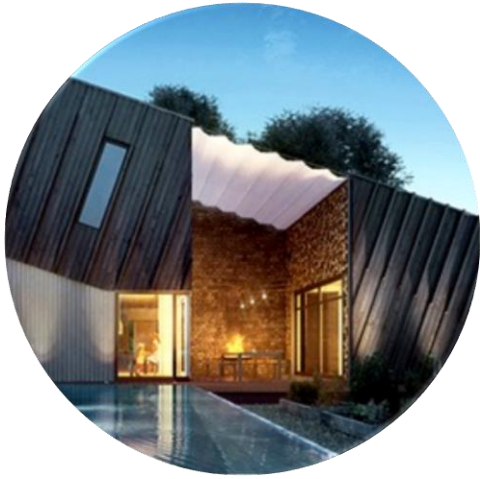


# NTNU's vision: Knowledge for a better world

- Set the standard for developing cutting-edge knowledge.
- Create economic, cultural and social value.
- Use the university's technical and scientific main profile, its academic breadth and interdisciplinary expertise to address the challenges facing Norway and the world.



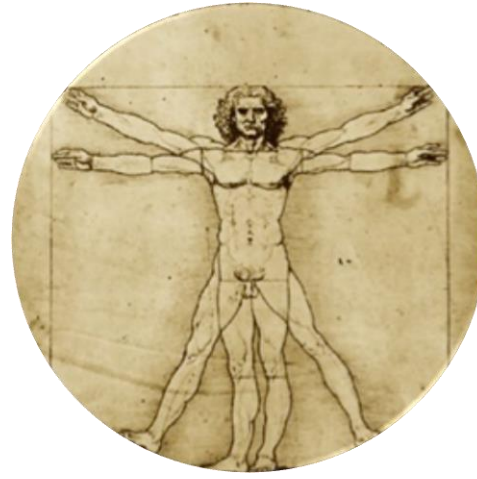




ARCHITECTURE



TECHNOLOGY



HUMANITIES



ECONOMY



TEACHER EDUCATION



SCIENCES



SOCIAL SCIENCES



MEDICINE

# STRATEGIC RESEARCH AREAS 2014–2023



ENERGY



HEALTH

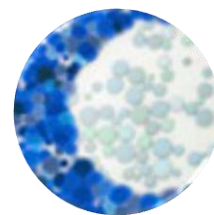


OCEANS

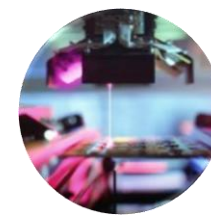


SUSTAINABILITY

## Enabling Technologies



Biotechnology

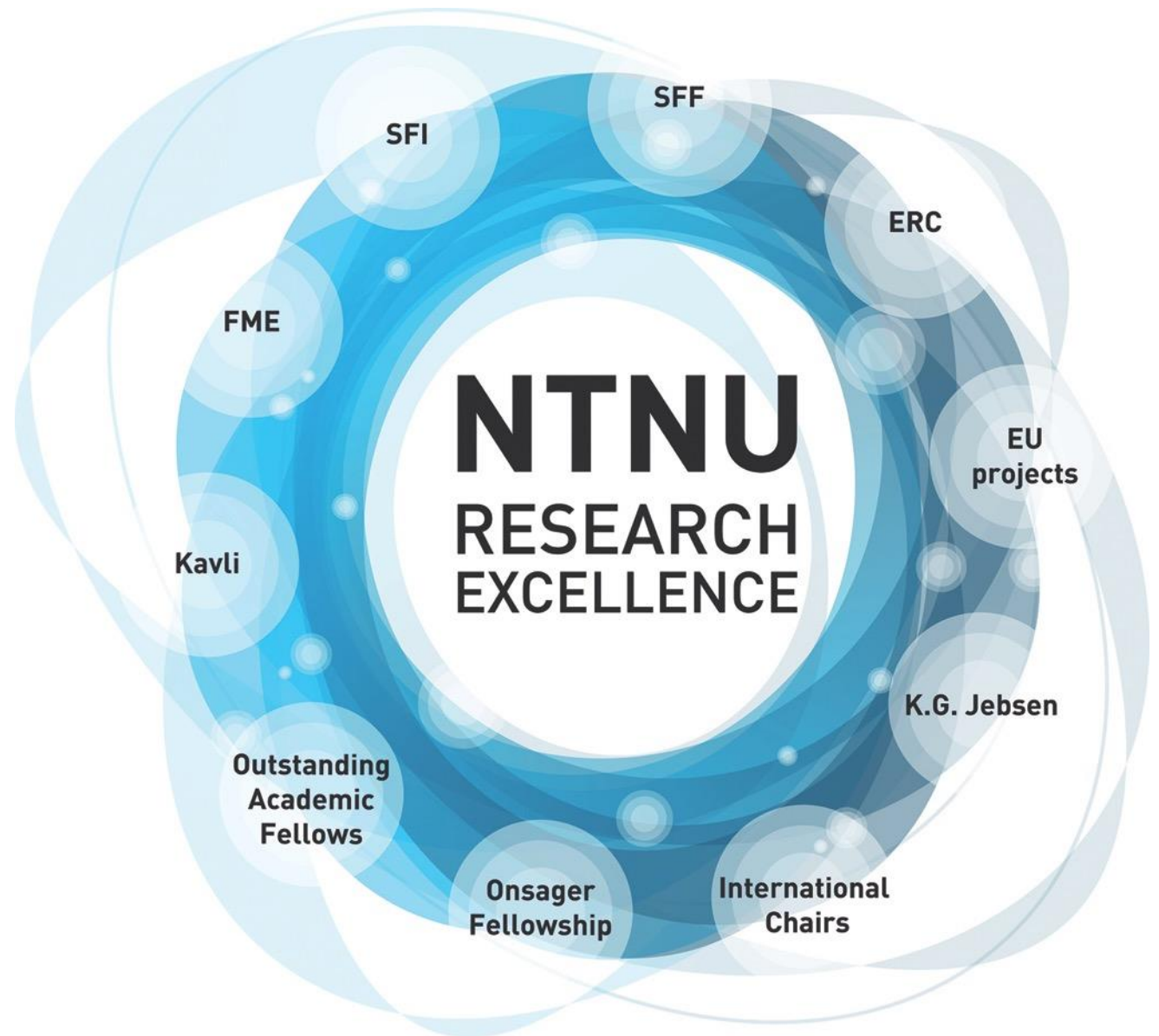


ICT



Nano@NTNU

- NTNU hosts the Kavli Institute for Systems Neuroscience, four national centres of excellence and elite seven centres for research-based innovation, as well as a wide range of research schools.
- We work in close partnership with SINTEF, one of Europe's largest independent research institutes. Together, NTNU and SINTEF are responsible for six national research centres for eco-friendly energy.
- Researchers at NTNU have received several grants from the European Research Council (ERC).





# 2014 Nobel Prize in Physiology or Medicine

## Professors May-Britt Moser and Edvard Moser



**Kavli Institute of Neuroscience**  
**Center of Excellence Neural Computation**  
**8 European Research Council Grants**

# Centers for Research-based Innovation

- Centre for Advanced Structural Analysis
  - Center for innovative ultrasound solutions for health care, maritime, and oil and gas industries
  - Subsea production and processing
  - Metal Production and Industrial Catalysis Science
  - Innovation for a competitive and sustainable process industry
  - Sustainable Arctic Marine and Coastal Technology (SAMCoT)
- 
- **NTNU in 14 of 17 new centers established in 2014**
  - **NTNU is hosting 5 of the new centres**





# Centers for Environment-friendly Energy Research



2009-2017: NTNU is hosting 2 and partner in 6 out of 11 centers, host of:

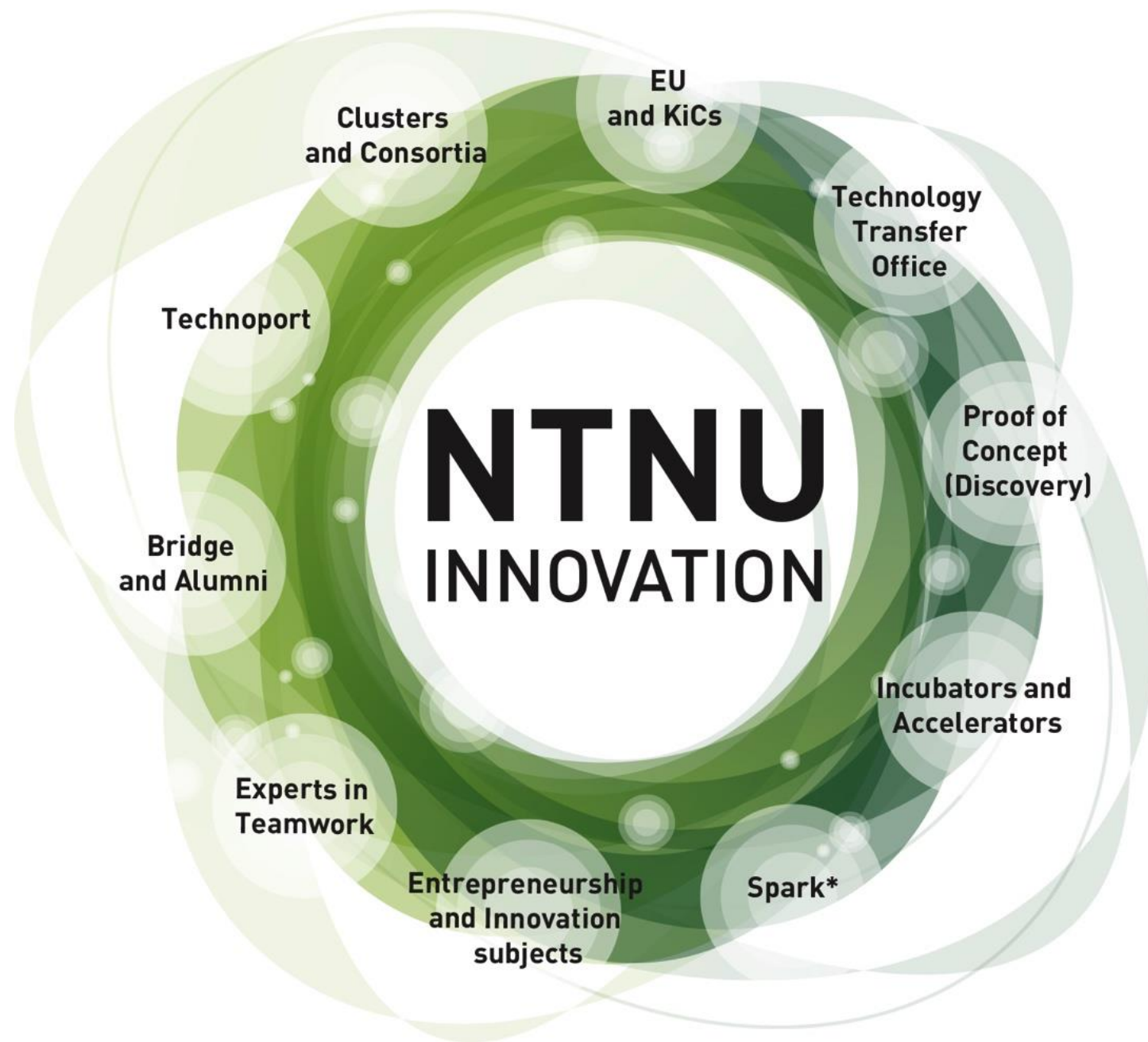
- The Research Centre on Zero Emission Buildings (ZEB) (2009-2017)
- Centre for Sustainable Energy Studies (CenSES) (2011-2019)

2016 -2024: NTNU is involved in all new centres: hosting 2 and partner in 6, host of:

- Norwegian Research Centre for Hydropower Technology (2016 -2024)
- The Research Centre on Zero Emission Neighbourhoods in Smart Cities (ZEN) (2016 -2024)

NTNU has taken responsibility for innovation for more than 100 years. Innovation includes entrepreneurship and commercialization. Our innovation processes grow from education, research and artistic activities. Working together with other players, NTNU paves the way for more start-ups and development in existing firms.

Students are our most important renewable resource. That's why student innovation is a high priority at NTNU.



# Industry-University partnership

- Strategic partnerships and cooperative agreements
- Supporting study programs, research projects and innovation through joint efforts
- 700 research projects in cooperation with industry and the public sector
- 222 adjunct professors (20 % positions)
- Partners in Centres of Excellence, Centres for Research-based Innovation
- Close cooperation in the development of curricula targeted at industrial needs/ Collaborative networks supporting study programs



*Statoil*  
*Shell*  
*Total*  
*Hydro*  
*Telenor*  
*IBM*

*Rolls Royce*  
*DNV*  
*Siemens*  
*Aker*  
*Kongsberg-Group*

*Statkraft*  
*Statnett*  
*Hafslund*  
*NTE*  
*Elkem*







**Thank you for your attention**



**NTNU**

Norwegian University of Science and Technology

Foto: Carl-Erik Eriksson