



Norwegian University of  
Science and Technology

# Positioning of NTNU to European Research and Innovation Programs



Massimo Busuoli

NTNU Brussels Office

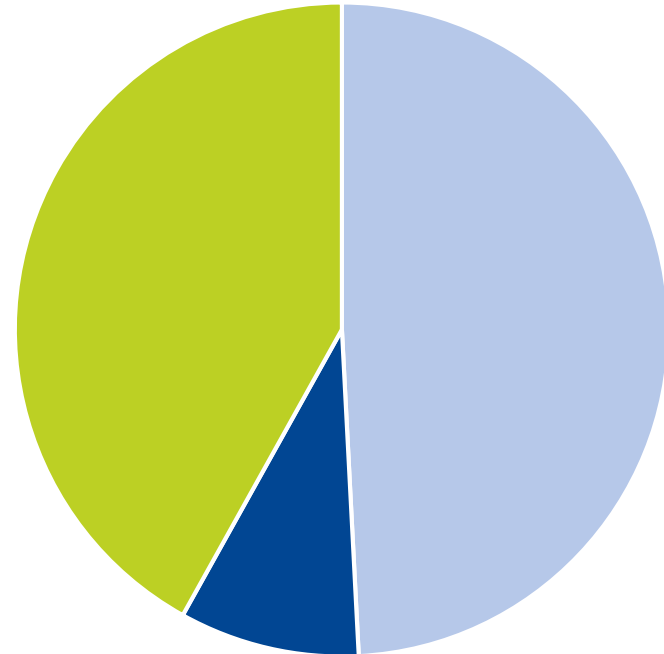
# External research funding 2019

A large proportion of NTNU's research funds are external and won in competition

NTNU raises most funds among Norwegian institutions from the Research Council of Norway

NTNU has considerable funding from business and industry and the public sector

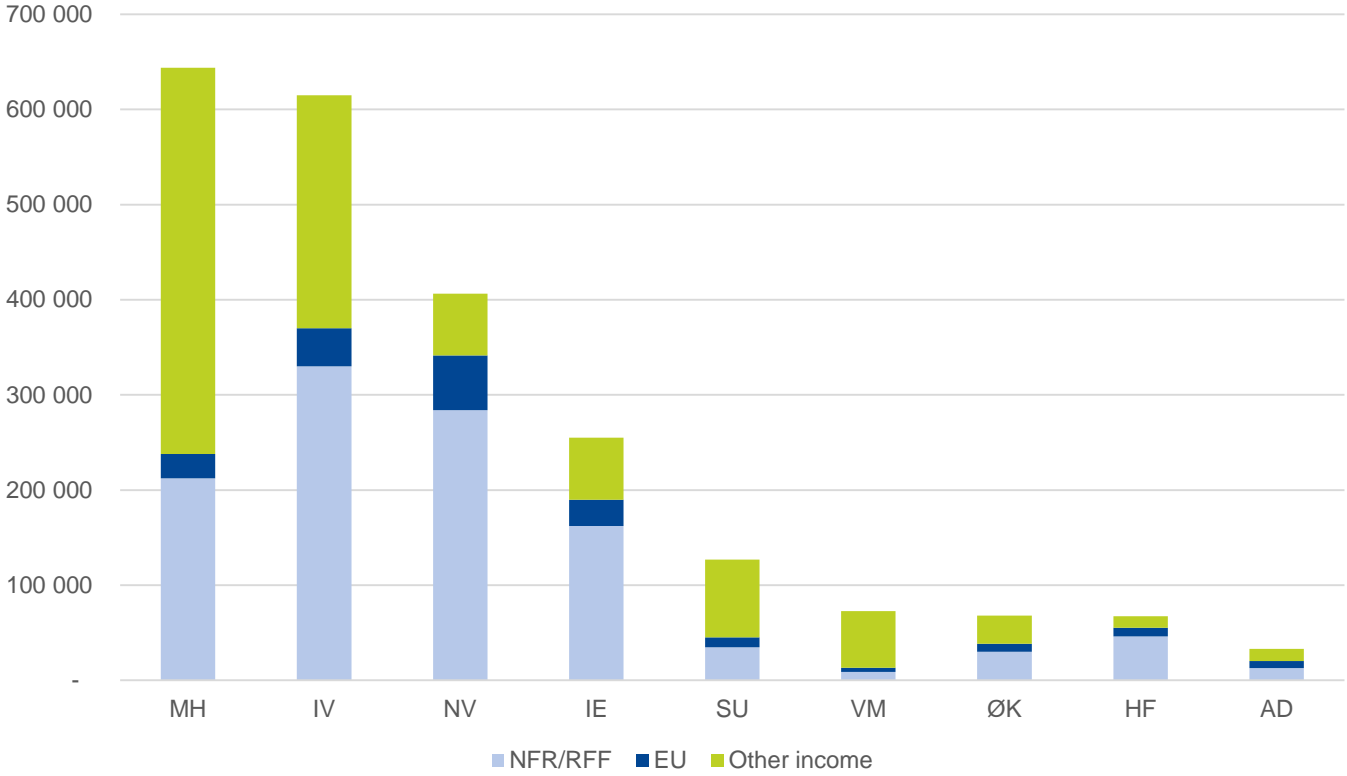
Total research funding: 2.3 billion NOK



■ NFR/RFF ■ EU ■ Other income

# External research funding 2019

by faculty



# Research instruments

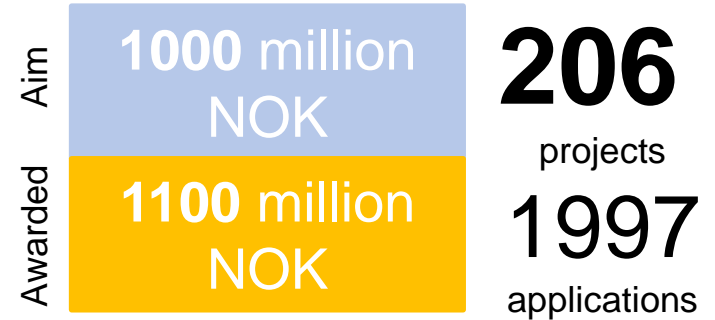
## External

- **EU**
- Research Council of Norway
- Private

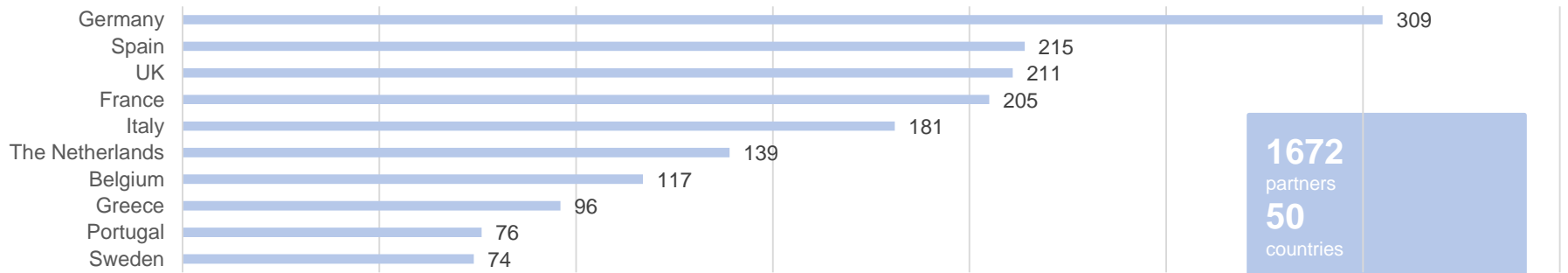
## Internal

- Strategic research areas
- Enabling technologies
- Research excellence initiative

# Participation in 2020



Main collaborators in H2020, number of joint projects with NTNU by countries outside of Norway





*“Europe must lead the transition to a healthy planet and a new digital world. But it can only do so by bringing people together and upgrading our unique social market economy to fit today’s new ambitions.”*

**A EUROPEAN GREEN  
DEAL**

*Striving to be the first  
climate-neutral continent*

**AN ECONOMY THAT  
WORKS FOR THE PEOPLE**

*Working for social fairness  
and prosperity*

**A EUROPE FIT FOR THE  
DIGITAL AGE**

*Grasping the opportunities  
from the digital age within  
safe and ethical boundaries*

**PROMOTING OUR  
EUROPEAN WAY OF LIFE**

*Building a Union of equality and  
diversity, standing up for justice  
and values*

**A STRONGER EUROPE IN  
THE WORLD**

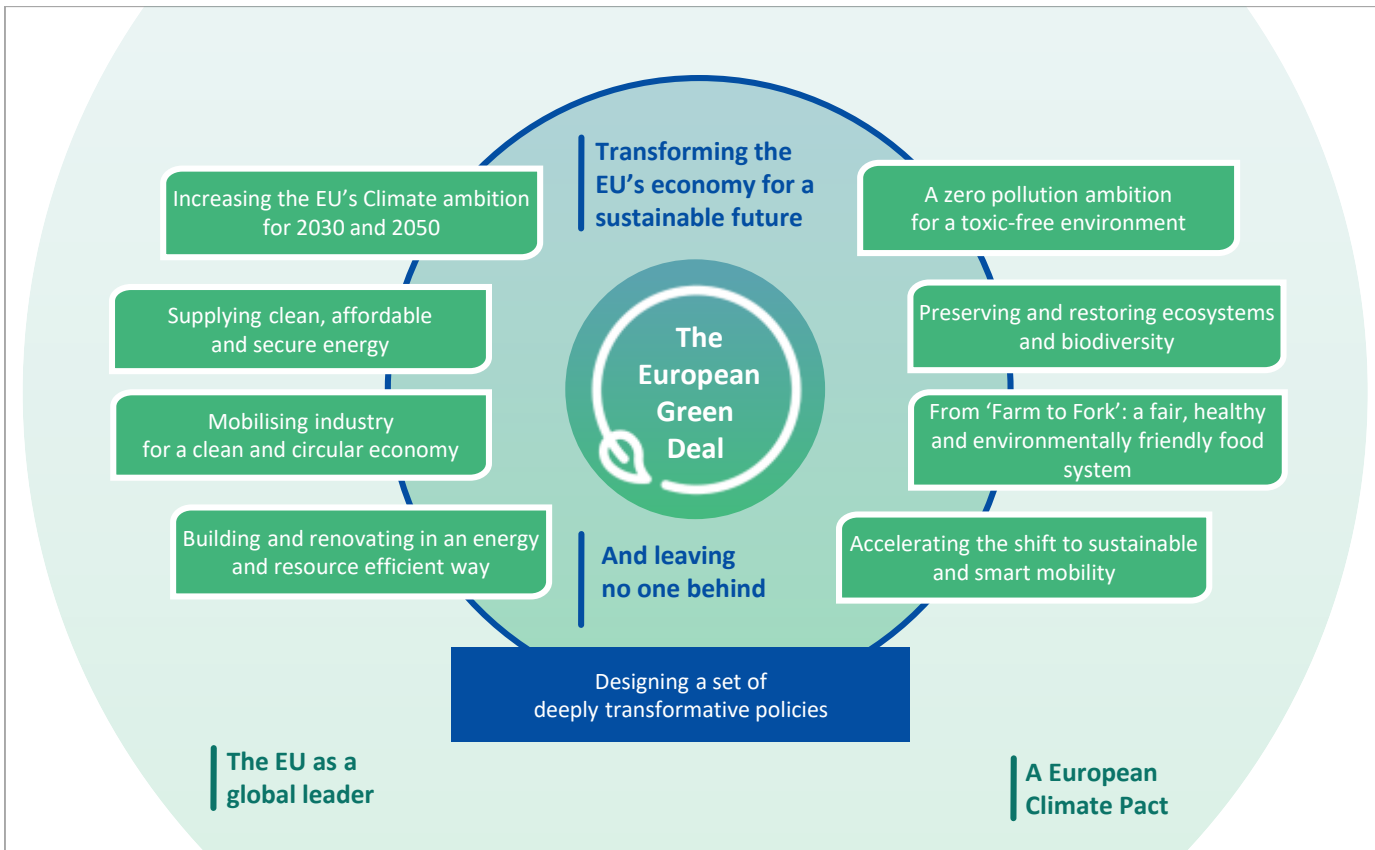
*Strengthening our unique  
brand of responsible global  
leadership*

**A NEW PUSH FOR  
EUROPEAN DEMOCRACY**

*Nurturing, protecting and  
strengthening our democracy*

# Six ambitions for Europe

# The European Green Deal





# Horizon Europe – structure and proposed budget (Million Euros)

## Pillar I: Excellent Science

**23.097 million euro**

European Research Council	<b>14.861</b>
Marie Sklodowska-Curie Actions	<b>6.288</b>
Research Infrastructure	<b>2.149</b>

## Pillar II: Global Challenges

**47.179 million euro**

Health	<b>6.893</b>
Culture, Creativity and inclusive Society	<b>1253.5</b>
Civil Security for Society	<b>1253.5</b>
Digital, Industry and Space	<b>13.429</b>
Climate, energy and mobility	<b>13.429</b>
Food Bioeconomy, natural resource, agriculture and environment	<b>8.952</b>
Joint Research Center	<b>1.970</b>

## Pillar III: Innovative Europe

**12.086 million euro**

European Innovation Council	<b>8.752</b>
European Innovation ecosystems	<b>448</b>
European Institute of Innovation and Technology	<b>2.686</b>

## Widening Participation and strengthening the European Research Area

Widening participation and spreading excellence

**2.823**

**3.181 million Euro**

Reforming and enhancing the European R&I system

**358**

## NTNU Positioning approach:

- Expanding on relevant and high level collaborations
- Expanding participation in relevant platforms/initiatives/networks
- Building on existing positionings

# Relevant initiatives/platforms in Horizon Europe

- European Partnerships
- Industrial alliances
- European Institute of Innovation & Technology
- European Food Forum
- Digital Innovation Hubs

# Horizon Europe: Portfolio of candidates for European Partnerships (49)

**HEALTH** **Red: possible institutionalised Article 185/7** **DIGITAL, INDUSTRY AND SPACE**

**EU-Africa Global Health**

**Innovative Health Initiative**

Chemicals Risk Assessment

Fostering an ERA for Health research

Large-scale innovation and transformation of health systems in a digital and ageing society

Personalised Medicine

Rare Diseases

One Health AMR

**High Performance Computing**

**Key Digital Technologies**

**Smart Networks and Services**

AI, data and robotics

Photonics Europe

Clean Steel - Low Carbon Steelmaking

**European Metrology**

Made in Europe

Carbon Neutral and Circular Industry

Global competitive space systems

European Geological Service

**PILLAR III AND  
CROSS-PILLAR**

EIT Climate KIC

EIT Health

EIT Manufacturing

EIT Food

EIT InnoEnergy

EIT Raw Materials

EIT Digital

EIT Urban Mobility

EIT Cultural and  
Creative Industries

Innovative SMEs

European Open  
Science Cloud  
(EOSC)

**CLIMATE, ENERGY AND MOBILITY**

**Transforming Europe's rail system**

**Integrated Air Traffic Management**

**Clean Aviation**

**Clean Hydrogen**

Built environment and construction

Towards zero-emission road transport

Mobility and Safety for Automated Road  
Transport

Batteries

Clean Energy Transition

Sustainable, Smart and Inclusive Cities  
and Communities

Smart and zero-emission waterborne  
transport

**FOOD, BIOECONOMY, NATURAL  
RESOURCES, AGRICULTURE AND  
ENVIRONMENT**

Accelerating farming systems transition

Animal health: Fighting infectious diseases

Environmental Observations for a  
sustainable EU agriculture

Rescuing biodiversity to safeguard life on  
Earth

A climate neutral, sustainable and  
productive Blue Economy

Safe and Sustainable Food System for  
People, Planet & Climate

**Circular bio-based Europe**

Water4All: Water security for the planet

# Where is NTNU towards HEU....

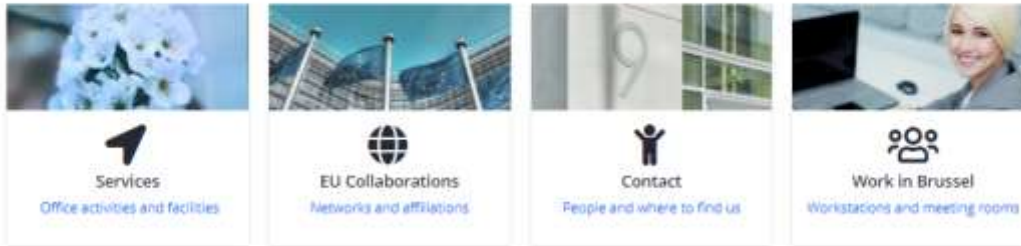


Digital Innovation Hub in preparation



# NTNU Brussels Office

The NTNU Brussels Office overall task is from its base in Brussels to contribute to achieving the goals set out in the NTNU Strategy and the International action plan by contributing to increase the number of European funded projects NTNU coordinate and participate in.



<https://www.ntnu.edu/brussel>

Office activities and facilities

## Services

Promotion and representation of NTNU in Brussels

Positioning of NTNU in relevant Brussels-based initiatives and bodies

Contribution to improve NTNU's EU project portfolio

Provide internship opportunities for NTNU employees and students

Provision of logistic support and services in Brussels

Thank you