



# NIBIO

NORWEGIAN INSTITUTE OF  
BIOECONOMY RESEARCH

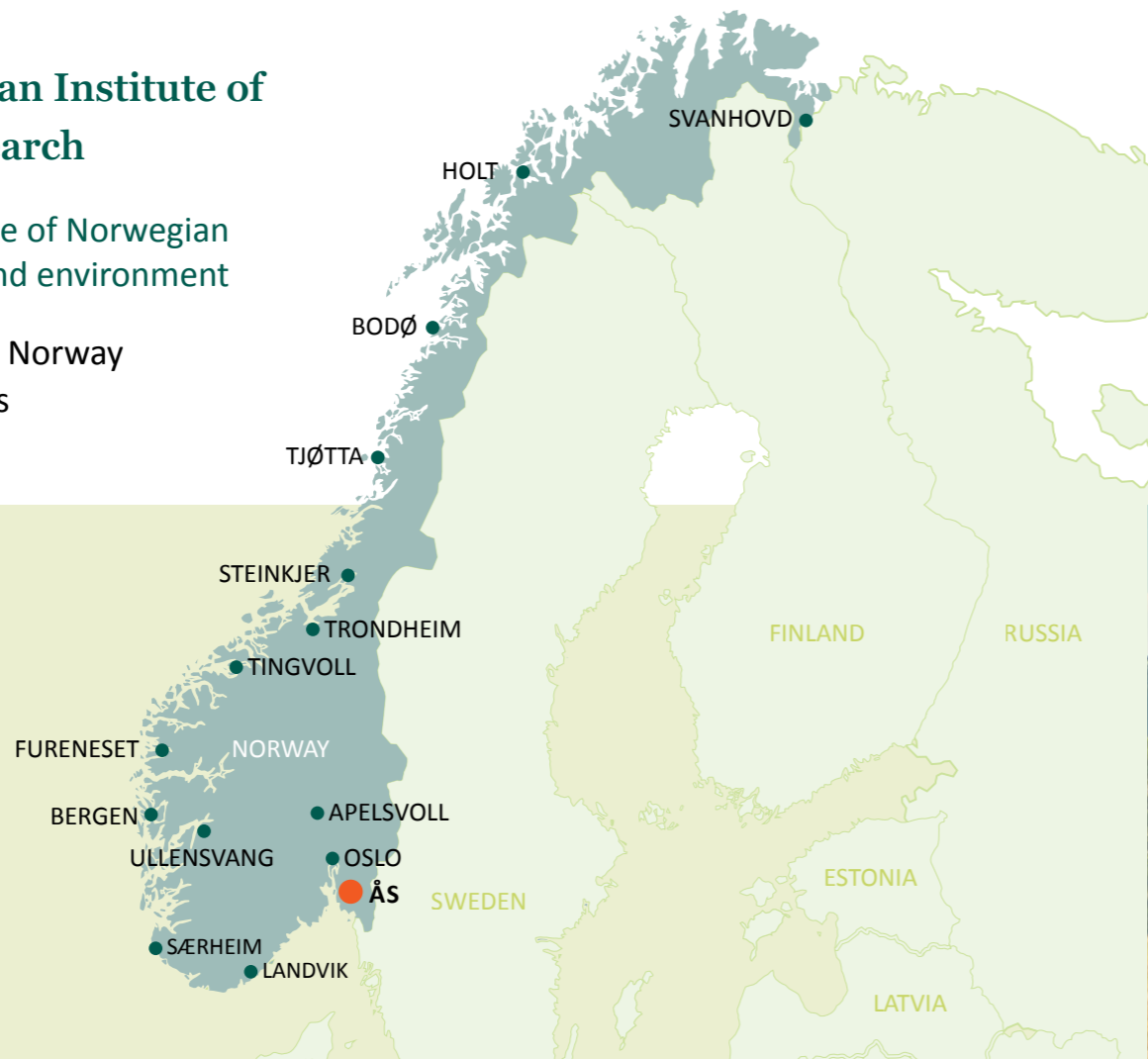
# Substantial Sustainability



## NIBIO – Norwegian Institute of Bioeconomy Research

130 years in the service of Norwegian agriculture, forestry and environment

- 15 locations across Norway
- 5 research divisions



## OUR APPROACH: Dedicated to solving the Global Grand Challenges

NIBIO contributes to sustainable, innovative and climate smart solutions by:

- integrating food production, agriculture and forestry with environmental impacts and resource efficiency
- holistic and multidisciplinary approaches
- producing science-based knowledge for wise decision taking and policy making



DIVISION OF  
**Food Production  
and Society**



**THEMATIC AREAS:**

Food security and sustainable food production, including multifunctional agriculture, are core elements.

- Agricultural technology and system analysis
- Business economics and management
- Economics and society
- Grain and forage seed agronomy
- Grassland and livestock
- Landscape and biodiversity
- Horticulture
- Precision agriculture





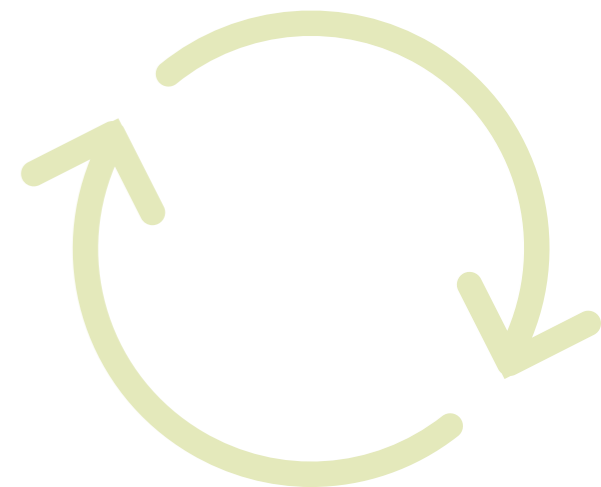
DIVISION OF  
**Environment and  
Natural Resources**



**THEMATIC AREAS:**

Sustainable use and mitigation measures related to soil, water, vegetation and waste resources are core elements.

- Bioresources and recycling technologies
- Soil quality and climate change
- Soil and land use
- Terrestrial ecology
- Water resources
- Water quality
- Ecosystems in the Barents Region



DIVISION OF  
**Forestry  
and Forest  
Resources**



**THEMATIC AREAS:**

Forestry and forest resources, innovative use of wood materials, ecosystems and rural development are core elements.

- Forest and climate
- Forest genetics and biodiversity
- Forest management and technology
- National forest inventory
- Natural resources and rural development
- Wood technology
- Precision forestry





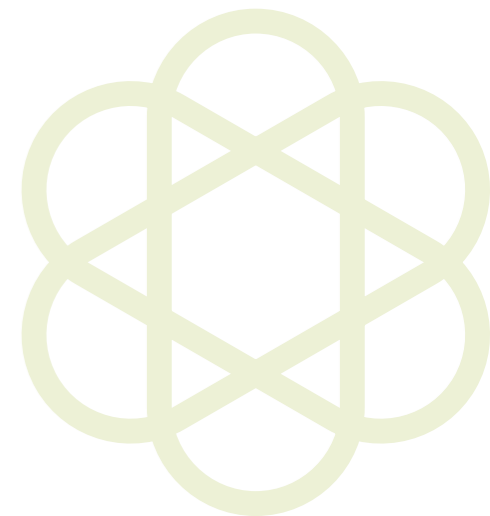
DIVISION OF  
**Biotechnology  
and Plant Health**



**THEMATIC AREAS:**

Plant health, plant protection, food safety and biotechnology are core elements.

- Molecular plant biology
- Pesticides and natural products chemistry
- Invertebrate pests and weeds
- Fungal plant pathology
- Viruses, bacteria and nematodes
- Algae production



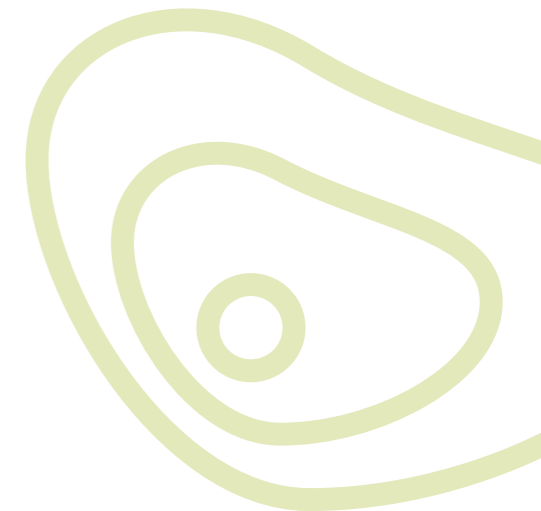
# DIVISION OF Survey and Statistics



## THEMATIC AREAS:

Land resource mapping, including soils, vegetation and landscape, geomatics and agricultural economics are core elements.

- Agricultural soil survey
- Farm management economics
- Geomatics
- Land inventory
- Agricultural economics
- Land resource surveys
- Landscape monitoring
- Norwegian Genetic Resource Centre



# International collaboration



## **CID** Centre for International Development

NIBIO has a large portfolio of collaborative projects in non-European countries. These typically focus on food security, digital and climate smart agriculture, natural resources management and rural development. NIBIO has an agreement with Norad / The Norwegian Agency for Development Cooperation.

## **NIBIO is involved in a multitude of projects worldwide**

- Europe
- The Barents Region
- China
- India
- South-East Asia
- Sub-Saharan Africa
- Latin America and the Caribbean

Horizon 2020 and Horizon Europe are important tools in our international collaboration.





# Monitoring and Surveillance Programmes

NIBIO has several long-term monitoring and surveillance programmes and also produces tools, maps and statistics. Some examples:

- **JOVA** The Norwegian Agricultural Environmental Monitoring Programme, monitors water flow and pollutants in 11 agricultural catchments. Established in 1992
- **Pesticide monitoring** of residues in food and environment
- **The Norwegian National Forest Inventory (NFI)** is the world's oldest nationwide forest inventory with data collection from field and by remote sensing. Established in 1919
- **Land resource survey** Provides a detailed national coverage of land resource information with emphasis on agriculture and forest areas
- **Soil survey** Produces maps of soil type and soil properties on agricultural land
- **CORINE Land Cover (CLC)** The Norwegian part of the pan-European land covers monitoring organized by the European Environment Agency
- **Farm level economic survey** An annual sampling survey. Established in 1911

# Other services and research infrastructure

Examples:

## Services

- **VIPS** Online forecast and information service for pests, diseases and weeds in Norway; [www.vips-landbruk.no](http://www.vips-landbruk.no)
- **Agrometeorology Norway (LMT)** Online weather data from Norway's main agricultural regions for use in forecast services and research; [lmt.nibio.no](http://lmt.nibio.no)

## Field trials

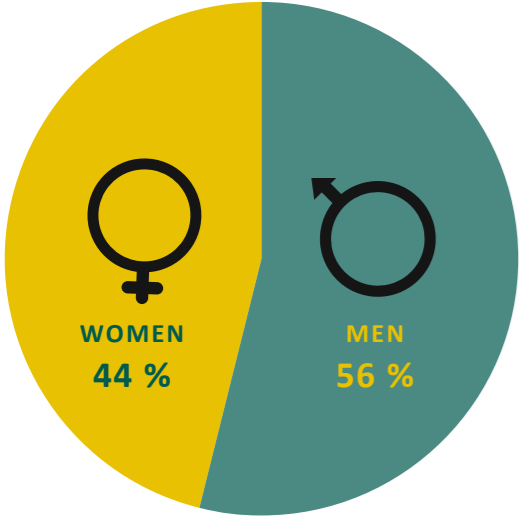
- **Field trials** at Møystad (established 1922) and Apelsvoll (established 1989) are used to study long term effects of different agricultural practices and technologies on yield, soil properties, and the environment

- **Long term forest trial plots:** 800 field trials investigating the effects of various silvicultural regimes
- **A nationwide network of field trial facilities**

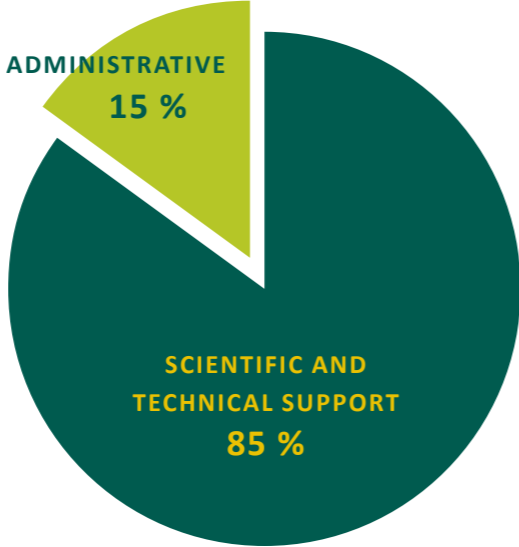
## Other research infrastructures

- **Advanced greenhouse facilities**
- **Accredited laboratories;** organic and inorganic, pesticides and biotechnology
- **Svanhovd Arctic Research Station**  
Accommodation, laboratories and field facilities

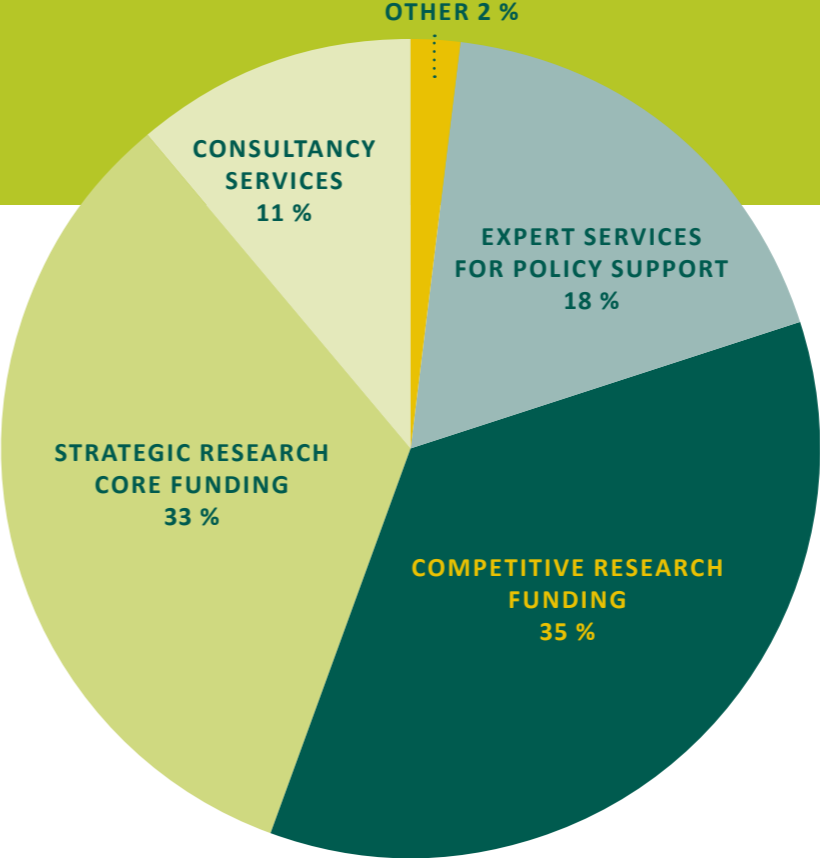
# Facts and Figures



**Women vs men in NIBIO**  
690 employees



**Scientific and technical support vs administrative employees in NIBIO**  
PhD: 214 / Research Professors: 61



**Funding (per 31.12.2019) Total budget 2020: 75 million Euro**

- Employees from more than 35 countries
- 276 peer reviewed articles in 2019
- 37 500 reports in our DB
- 15 national research stations
- Independent research institute subject to the Ministry of Agriculture and Food



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**Photography:**

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