



# NIBIO

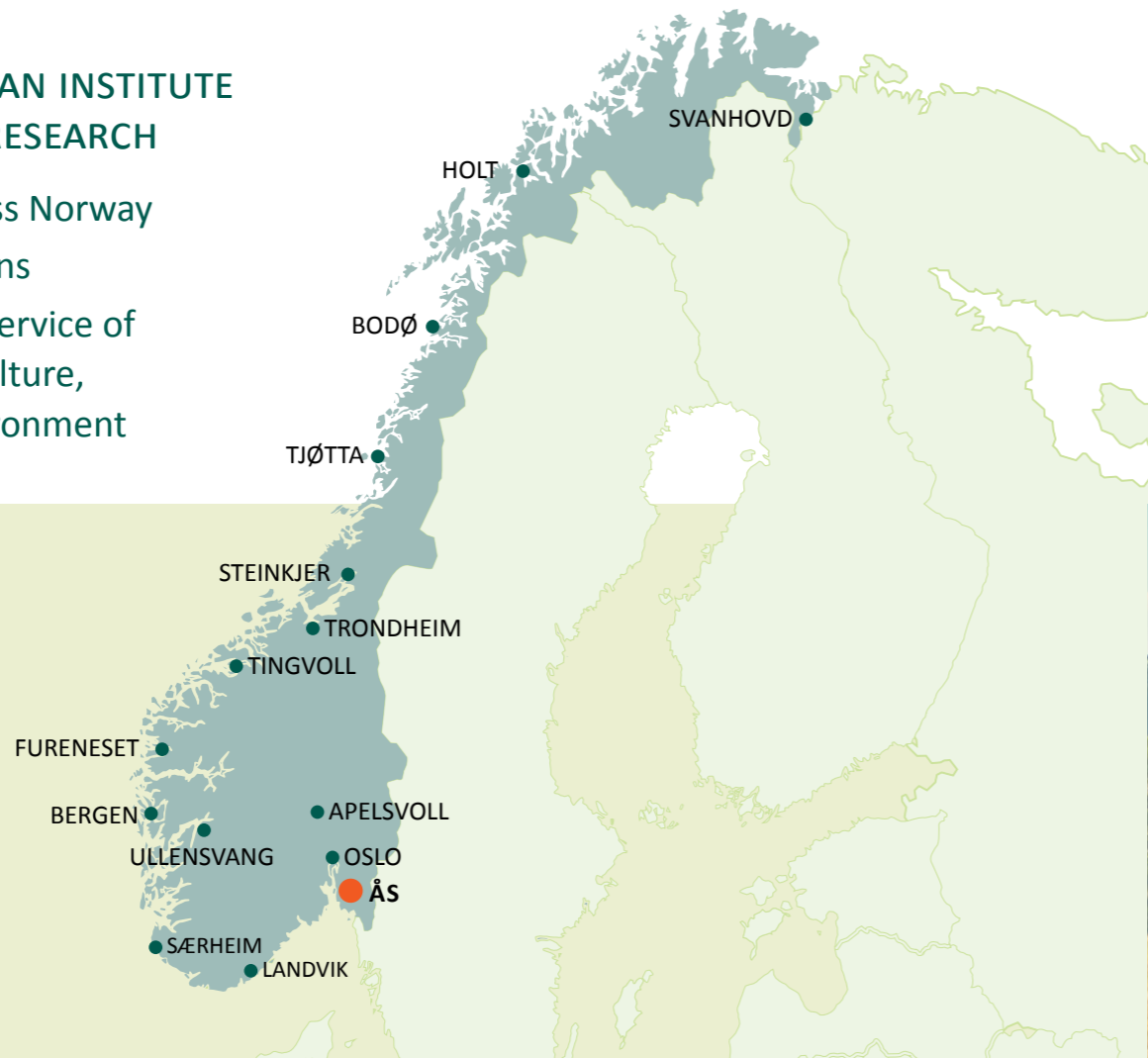
NORWEGIAN INSTITUTE OF  
BIOECONOMY RESEARCH

## Tuned In to Solving the Grand Global Challenges



## NIBIO – NORWEGIAN INSTITUTE OF BIOECONOMY RESEARCH

- 15 locations across Norway
- 5 research divisions
- 130 years in the service of Norwegian agriculture, forestry and environment



## Our approach:

NIBIO contributes to food security and safety, sustainable resource management, innovation and value creation through research and knowledge production.

- Multi-disciplinary and integrated activities
- Science-policy-stakeholder interactions





DIVISION OF  
**Food Production  
and Society**



**THEMATIC AREAS:**

- 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





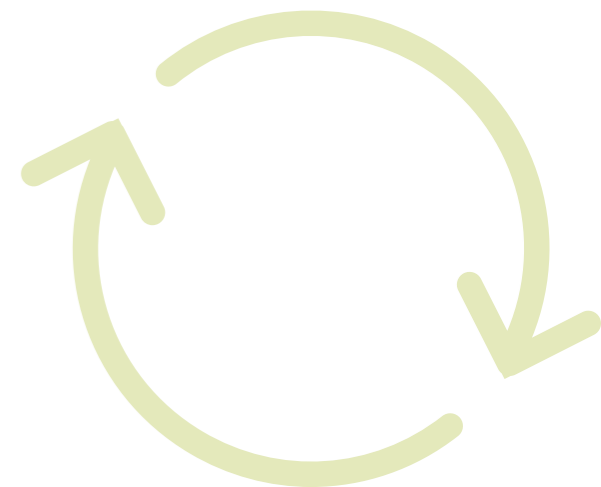


DIVISION OF  
**Environment and  
Natural Resources**



**THEMATIC AREAS:**

- bioresources and recycling technologies
- soil quality and climate change
- soil and land use
- terrestrial ecology
- water resources
- water quality
- ecosystems in the Barents Region



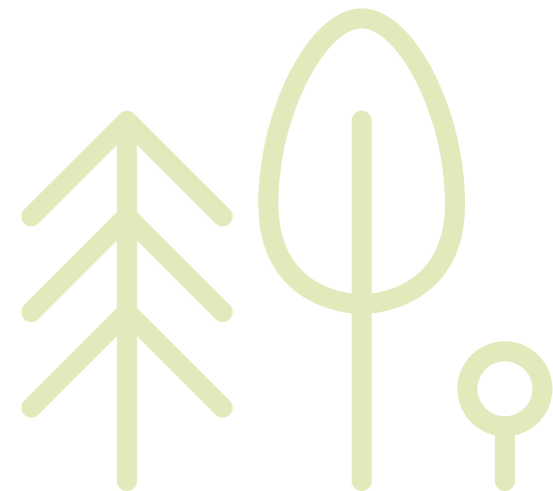


DIVISION OF  
**Forestry  
and Forest  
Resources**



**THEMATIC AREAS:**

- forest and climate
- forest genetics and biodiversity
- forest management and technology
- national forest inventory
- natural resources and rural development
- wood technology
- precision forestry



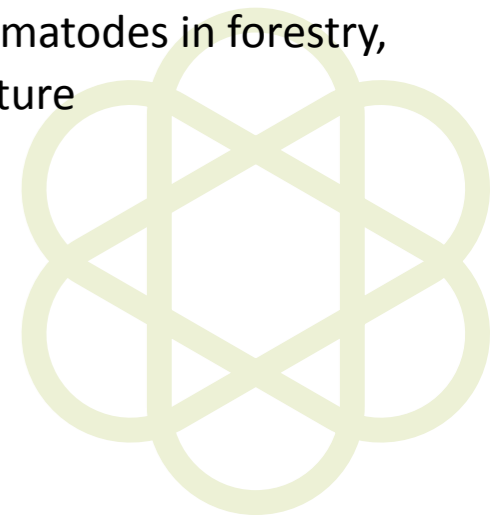


DIVISION OF  
**Biotechnology  
and Plant Health**



**THEMATIC AREAS:**

- molecular plant biology
- pesticides and natural products chemistry
- invertebrate pests and weeds in forestry, agriculture and horticulture
- fungal plant pathology in forestry, agriculture and horticulture
- viruses, bacteria and nematodes in forestry, agriculture and horticulture
- algae production





# DIVISION OF Survey and Statistics



## THEMATIC AREAS:

- agricultural soil survey
- farm management economics
- geomatics
- land inventory
- agricultural economics
- land resource surveys
- landscape monitoring
- Norwegian Genetic Resource Centre





# International Engagement



## **CID** Centre for International Development

NIBIO coordinates extensive collaborative activities 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 international projects, particularly in:

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





# 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, (operating since 1992) monitors water flow and pollutants in 11 agricultural catchments.
- **The Norwegian National Forest Inventory (NFI)**, is the world's oldest nationwide forest inventory (since 1919), collected both from the field and via remote sensing.
- **Land resource survey** Provides a complete and detailed national coverage of land resource information with particular emphasis on agriculture and forest areas.
- **Soil survey** Produces maps of soil type and soil properties on agricultural land. Within 2075 it will cover all agricultural land in Norway.
- **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 (since 1911) provides reliable statistical information on agricultural economics at the farm level.

# Tools and Services

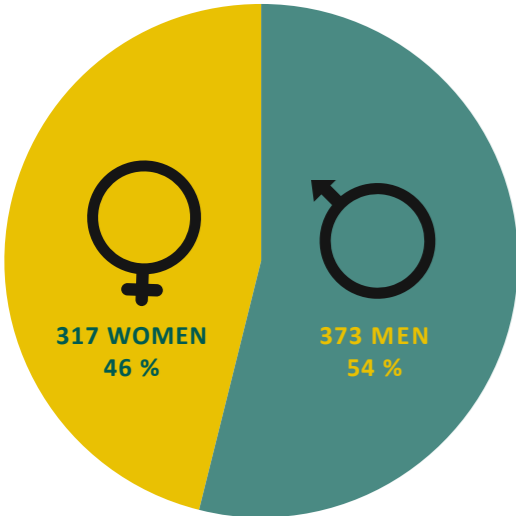
Examples:

- **VIPS** An online forecast and information service for pests, diseases and weeds in Norway; [www.vips-landbruk.no](http://www.vips-landbruk.no).
- Pesticide residue in food and environment.
- **Agrometeorology Norway (LMT)** Provides online weather data from Norway's main agricultural regions for use in forecast services and research; <http://lmt.nibio.no>.
- Long term forest research field trial plots: NIBIO oversees around 800 long term field trials investigating the effects of various silvicultural regimes in order to develop better forest growth models.
- Field trials at Møystad (since 1922) and Apelsvoll (since 1989) are used to study long term effects of different agricultural practices and technologies on yield, soil properties, and the environment.
- Advanced greenhouse facilities
- Accredited laboratories (pesticides, biotechnology)
- Network of field trial facilities

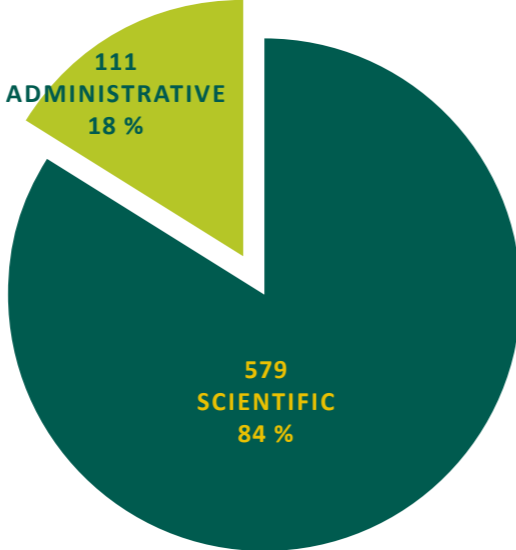




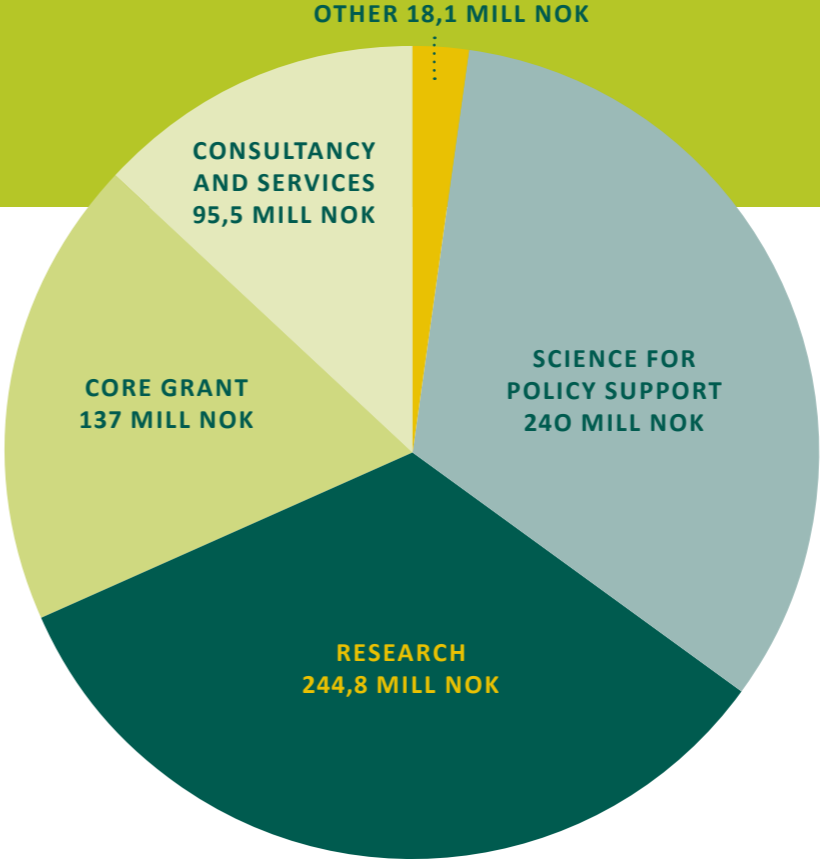
# Facts and Figures



**Women vs men in NIBIO**  
Approximately 700 employees



**Scientific vs administrative employees in NIBIO**  
PhD: 211 | Research Professors: 68



**Funding (per 31.12.2018) Total budget 2019: 75 million Euro**

- Employees from more than 35 countries
- 300 peer reviewed articles annually
- 36 000 reports in our DB
- 15 national research stations
- Independent research institute owned by the Ministry of Agriculture and food





# NIBIO

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BIOECONOMY RESEARCH

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**Photography:**

Anette Tjomsland  
Ragnar Våga Pedersen  
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Erling Fløistad  
Lars Sandved Dalen  
Yngve Rekdal  
Dan Aamlid  
John Yngvar Larsson  
Finn Arne Haugen  
Arnstein Staverløkk

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