



NIBIO
NORSK INSTITUTT FOR
BIOØKONOMI



COUNTRY REPORT- NORWAY

EUFRIN BOARD MEETING - NOV. 15, 2017

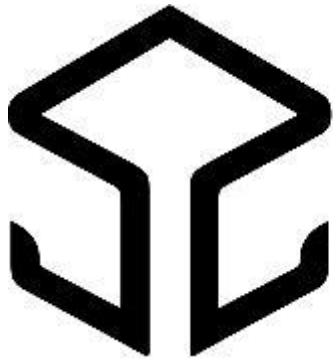
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Nibio Ullensvang

Norwegian Institute of Bioeconomy Research

www.nibio.no

JULY 1, 2015



NIBIO

NORWEGIAN INSTITUTE OF
BIOECONOMY RESEARCH



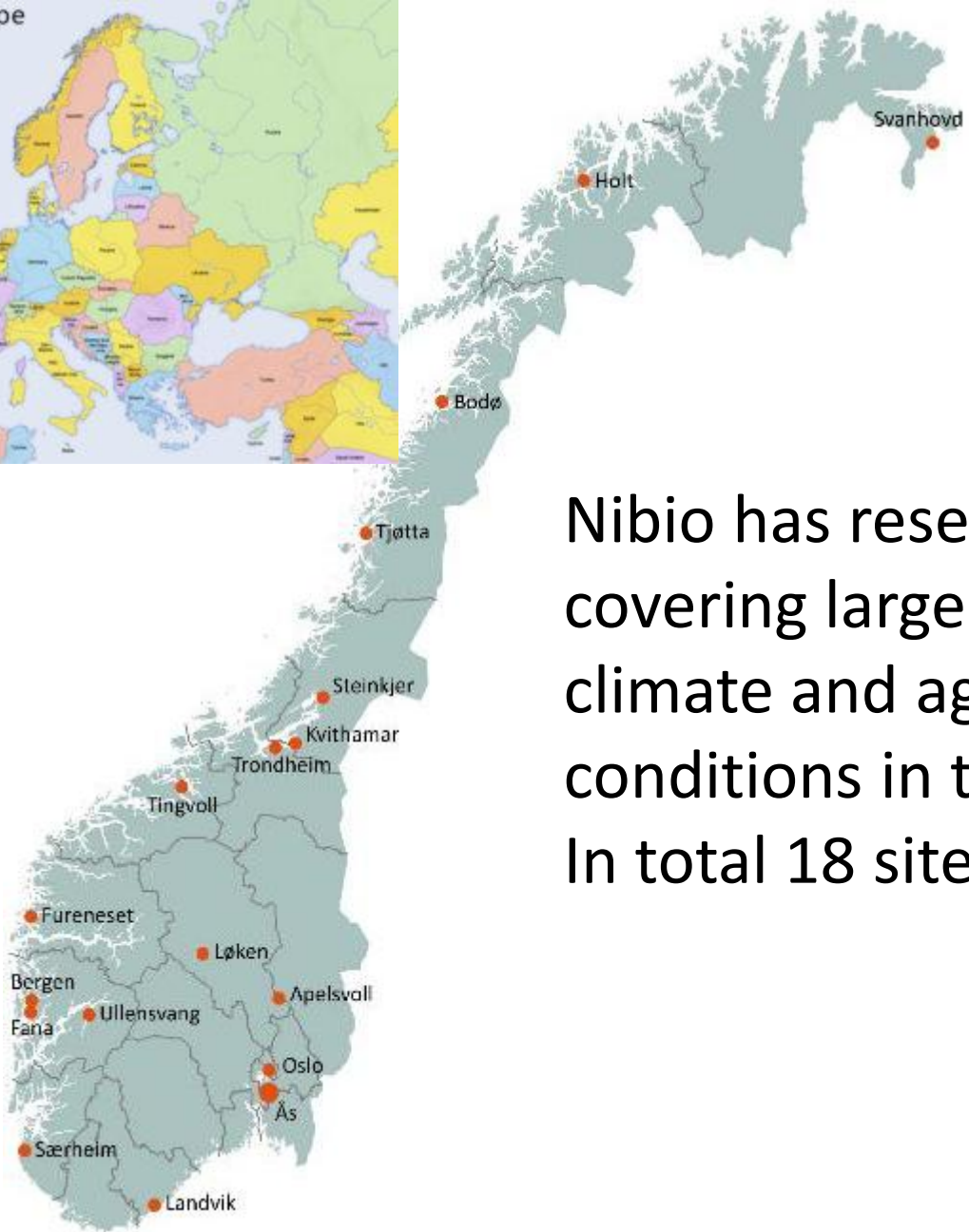
Objective:

Be the leading national research center for the development of knowledge within the field of bioeconomy in Norway

NIBIO HAS LEADING EXPERTISE

- One of the largest R&D organisations in Norway
- Governmental organisation – under The Ministry of Agriculture and Food
- Total staff about 680
- Total turnover – approximately 80 mill Euro – with very diverse funding sources
- Research stations and networks in all Norwegian regions
- Extensive international collaboration





Nibio has research facilities covering large gradients in climate and agro-ecological conditions in the whole country. In total 18 sites.

Key Thematical Areas

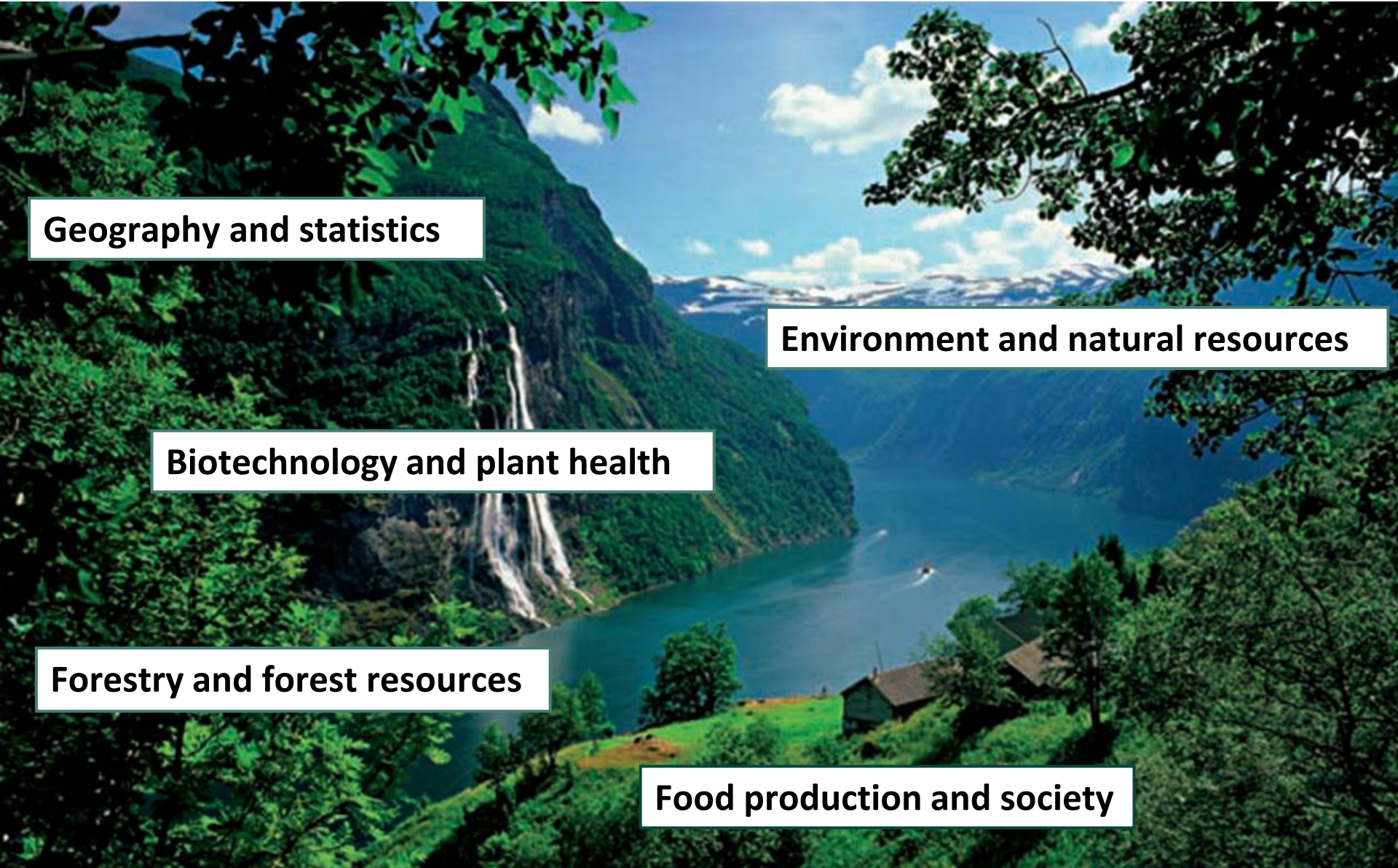
Geography and statistics

Environment and natural resources

Biotechnology and plant health

Forestry and forest resources

Food production and society



NIBIO INTERNATIONALLY

Norway is a small country, but our research is important on a global scale.

- NIBIO coordinates several large EU-projects
- Substantial research programmes in Asia
- Development in Africa
- Projects in South-America
- Cross-boundary collaboration in the Barents Region



DIVISION - FOOD PRODUCTION AND SOCIETY

- Food safety and security
- Innovation in the entire value chain
- Environment and climate-smart agriculture and food production
- Plant production, agronomy, soil sciences, ecology
- Economy and social sciences
- Cultural landscapes



DEPARTMENT OF HORTICULTURE

Working areas:

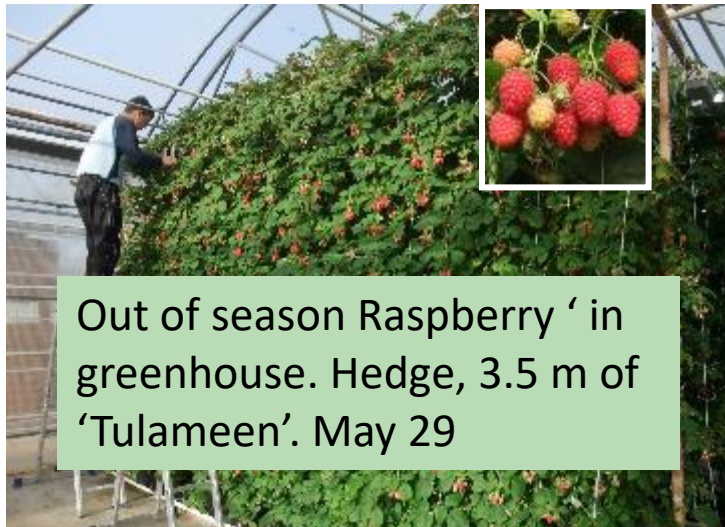
Conventional and organic production of following of crops:

Fruit and small fruit, Vegetables, Potato, Green house production

- Genetic resources and analyses
- Variety and rootstock testing
- Crop management
- Post harvest physiology: Expand the sales season
- Innovation – products developments



NEW INNOVATIONS IN HORTICULTURE



Out of season Raspberry ' in greenhouse. Hedge, 3.5 m of 'Tulameen'. May 29



Black currants in green house. June 5



Aquaponics, fish and salad



Plantfabric, resirkulating of energy and nutrition



Edamame – soyabeans harvested as fresh vegetables

The Norwegian pear cultivar 'Celina'

Cross: Broket July (Coloree de Juliet x Williams).

Brand name: QTee[®]. Breeder: Graminor AS, Norway

- Genetic analysis.
- Pollination and fruit set
- High density plantings
- Harvest windows, storage and fruit quality



HIGH TUNNELS AND GREEN HOUSE PRODUCTION OF SWEET CHERRY



FRUIT SET IN EUROPEAN PLUM

- Background: Norwegian plum acreage is increasing, but total production not proportional
- Aim: Large and stable fruit set
 - Survey – management at plum growers
 - Phenology, different cultivars and regions
 - Controlled crossings, main cultivars and different fathers
 - Pollen germination, pollen tube growth, fertilization, EPP
 - Paternity testing, SSR analysis



APPLE CIDER

New government regulation: Farmers are allowed to sell alcohol >4.7 % from the farm gate



Nibo is doing product development; blending, fermenting, tasting etc

**THANK YOU
FOR YOUR ATTENTION**



**NIBIO Ullensvang
Norway**