

# BIONÆR

## Expectations to the BIOSMART project (and to larger integrated projects in general)

Trondheim, 1 June 2015

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# **The BIONÆR-programme**

**Sustainable innovation in food and biobased industries 2012 – 2021**



# Why bioeconomy?

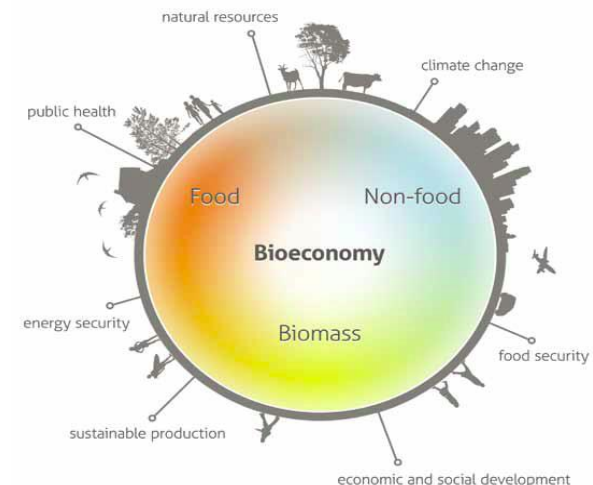
- Grand Challenges
  - Increased population
  - Scarcity
    - Food
    - Energy and other natural resources
  - Climate change
  - Need for sustainable raw materials
- Business as usual not an option
  - ➔ The green economy
  - ➔ The bioeconomy





# Bioeconomy – far more than environmental and ecological perspectives

- No contradiction between sustainability, environment, global challenges and value creation
- The solution is:
  - Developing new value chains based on bioresources
  - Developing new and green(er) employment
  - Increase resource efficiency – «team up with nature»

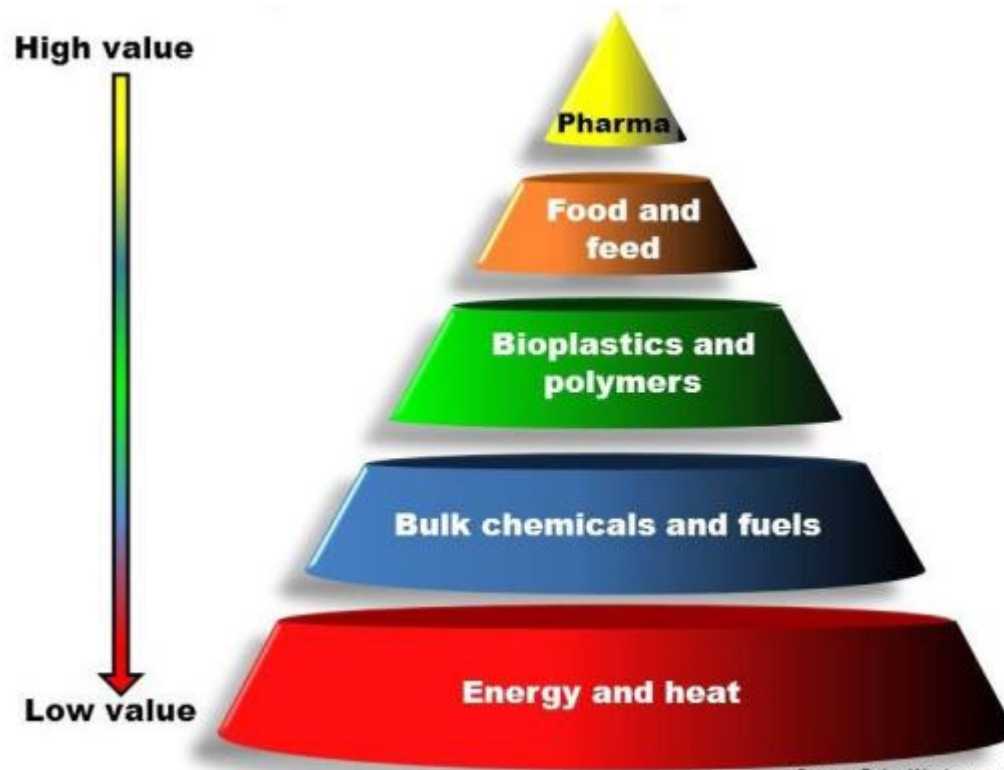


# National advantages from bioeconomy

- Circular economy – no waste
  - waste is «resources astray»
- Norway's landbased bioresources and unique ocean areas – large scale industrial opportunities
- Synergies and cooperation between disciplines and sectors/industries
- Key to regional development – local bioresources in existing and new value chains
  - Think globally – act locally



# What can be produced from biomass?



# EU increases the effort

- Sustainability
- Innovation
- Economy, industry
- Employment



# Norway increases the effort

- Government: Long term plan for research and education
- Many R&D-strategies
- BioVerdi-report
- Different “21/22-strategier” - latest «Forest22»
- National bioeconomy strategy in process – initiated by Government





# The Research Council increases the effort

- In new budgets
- In collaboration internally, across programmes, and externally, ex. Innovasjon Norge
- In how BIONÆR works with the bioeconomy



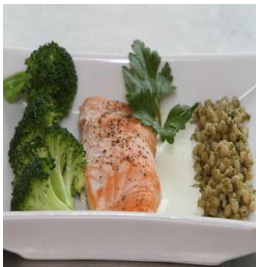
# The Research Council's new main strategy promotes the bioeconomy

- More sustainable solutions
- More research based innovation
- More international cooperation



# Bioeconomy is high on the political agenda

- Forskningsrådet og Innovasjon Norge har virkemidlene som skal til



# **BIONÆR – promoting the biobased society**

- Budget 2015
  - 245 mill. NOK or approx. 30 mill. €
- promote research that increases the level, profitability and sustainability of production in the bio-based industries
- knowledge and expertise for new and existing bio-based industries and bioresource management;
- research-based innovation in food and other bio-based companies and bioresource management



## Main instrument larger, integrated projects

- «Challenge based» - broader objectives
- Closed-loop systems
- Sustainability
- Value creation
- More disciplines – multi-, inter- trans-? disciplinarity
- Involvement
  - Users
  - Industry
- Demanding to integrate – academically, socially





# **The BIONÆR administration wants to follow the larger integrated projects**

- The BIONÆR board is demanding
  - Results and impact from the larger projects
- Internal project in order to improve our work

# The BIONÆR team (most of it)





# Following the projects – into details

- Project organisation
  - «Projects in the project», communication strategy
  - Do you experience challenges – maybe we can help
- Project integration and cooperation
  - Between research units
  - With industry/users
  - Internally in and between the WPs
  - Disciplines and interdisciplinarity
- International cooperation
- Communication, from research to user
  - Efficient communication of results – both scientific publication and user oriented
- Innovation and commercialisation

# Arena for learning between the larger projects

- Larger projects may have use of learning from each other, like PhD-students that have common destinies
- With help from Oxford Research AS, our continuous evaluator
  - Surveys, data collection, advice, sparring partner
- Maybe you have input to other ways of improving the probability that such a large project can succeed?

# Good luck to BIOSMART!

**And do not hesitate to contact me**

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