



The EU Bioeconomy Strategy

OMEK

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Research and
Innovation

Building the European Bioeconomy

- **Concept and strategy**
- **Investment**
- **Instrument**
 - **H2020 Societal Challenge 2**
 - **WP 2016-2017**
 - **Initiatives with Member States**
- **Conclusions**

Europe must hurry to act facing **inter-related challenges**:



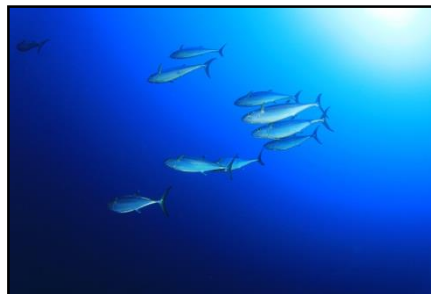
- 1. Food security**
- 2. Energy security**
- 3. Climate change**
- 3. Re-industrialisation of Europe**
- 4. Reducing our dependence on fossil resources**

What is the Bioeconomy?



The bioeconomy...

...those parts of the economy that use renewable biological resources from **LAND** and **SEA**



... to produce **FOOD, BIO-BASED PRODUCTS, MATERIALS** and **ENERGY.**





Organic waste



Insects as animal
feed



Animal
production

Examples: New value chains for BBI



Turning thistles into bioplastics

FIRST2RUN (BBI Flagship): Demonstration at industrial scale first-of-a-kind value chain. Vegetable oil from thistle cultivated on arid/marginal land will be converted into bioproducts such as bioplastics. By- and co-products will be valorised for energy and animal feed. Includes regeneration of an existing industrial plant. Total budget: 25M€. BBI contr. 17M€. The project is led by Novamont (IT).



Sugar beet pulp into high added value products

PULP2VALUE (BBI DEMO): Conversion of sugar beet pulp into high value products for detergents, personal care, paints & coatings, composites, etc. Connects sugar beet growing districts with new cross-sectorial value chains with the chemical and food industry. Total budget: 11,4M€. BBI contr. 6,6M€. The project is led by Royal COSUN (NL).

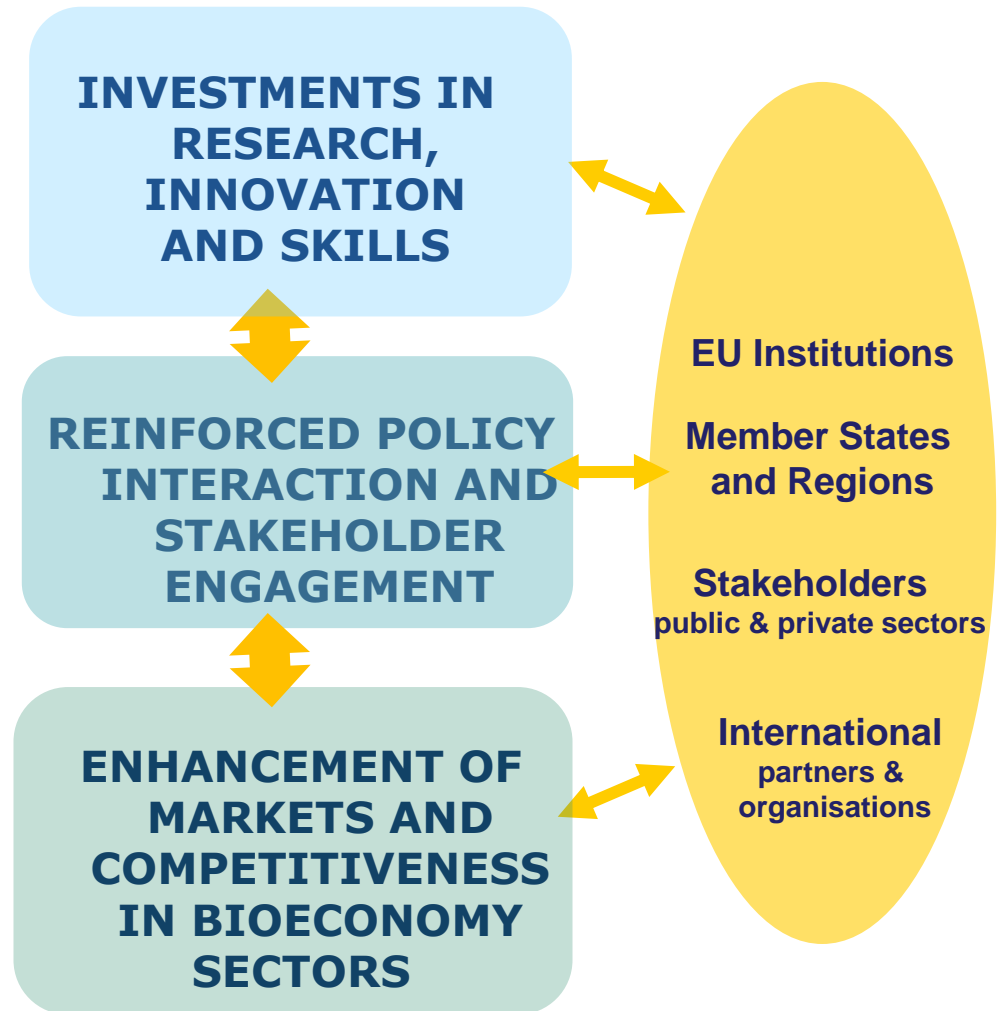
European Bioeconomy Strategy and Action Plan - 2012

European Commission



European Commission

The Strategy promotes sustainable use and production of renewable biological resources from land and sea and their conversion into food, bio-based products, biofuels and bioenergy.





Investing in smart strategies with research and innovation

- HORIZON 2020
- Regional and Cohesion Funds
- Social Fund
- Agricultural and Rural Development
- Maritime and Fisheries
- European Fund for Strategic Investment

Synergies at European level



- **Member state level strategy**
NL, Germany, Finland, France, Spain, regions etc.
- **Boost investment in the Bioeconomy**
In particular through synergies with ESIF, EIB and with support of the regions through smart specialisation strategies
 - **Bioeconomy Investment Summit, Brussels 9-10 Nov 2015**
- **Develop new Bioeconomy value chains and markets**
Role of JU BBI
- **Address knowledge gaps**
Role of Bioeconomy observatory
- **Increase stakeholders engagement**
Role of Bioeconomy Panel

Investment in Bioeconomy related R&I



2014-2020

H2020 SC2
3,8 billion Euro

JU BBI
3.7 billion Euro

Joint initiatives
with
Member States



- through SCAR (Standing Committee on Agricultural Research):
 - SCAR Collaborative and Strategic Working Groups
- through Joint Programming Initiatives (JPIs)
 - JPI on Agriculture, Food Security and Climate Change (FACCE)
 - JPI on "Healthy Diet for a Healthy Life" (HDHL)
 - JPI on "Healthy and Productive Seas and Oceans" (OCEANS)
- through ERA-NETs
- through PPPs and Art 185.
 - Ex.: BLUMED, PRIMA, AFRICA, BONUS, why not DANUBE

CONCLUSIONS



- 1. The bioeconomy is an opportunity which is emerging now.*
- 2. The development of research and innovation policy and strategy in the member states is key to the investment opportunities.*
- 3. The member states should take part in the preparatory processes.*
- 4. The bioeconomy needs a cross-sector integrated approach over the traditional primary and processing sectors.*
- 5. Linking the know-how with the cohesion and structural funds could lead to growth at local level.*



Thank you for your attention!