

A Bioeconomy for Europe

Using resources from land and sea for a post-petroleum economy

Barna Kovacs Bioeconomy Strategy Unit – DG RTD

> Danube Region Strategy 12th Steering Group Meeting Brussels, 25/5/2016



1. WHAT IS BIOECONOMY

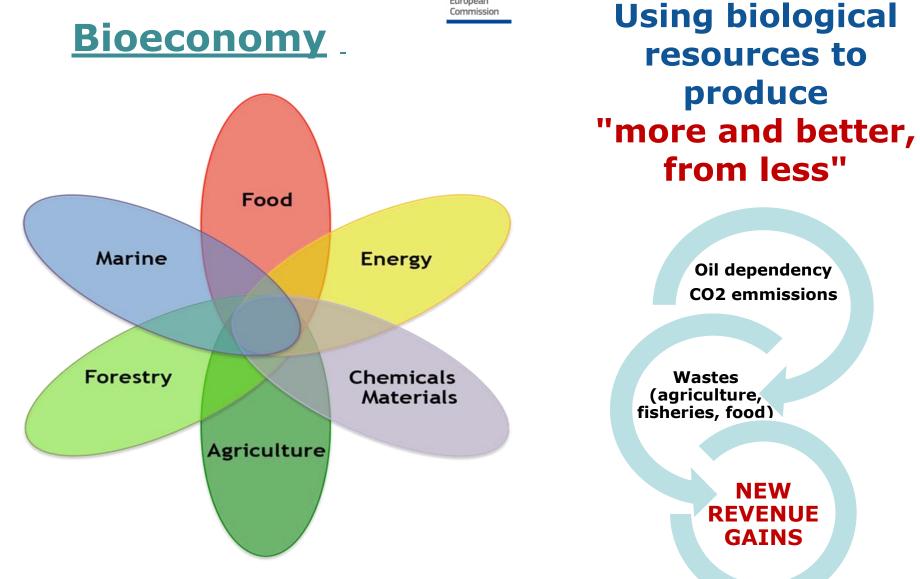


" The Bioeconomy encompasses those parts of the economy that <u>use</u> **renewable biological resources** from land and sea to produce food, biomaterials, bio-energy and bio-products."

EU bioeconomy strategy, 2012







Source: SCAR (Standing Committee on Agricultural Research)



Life sciences enable the creation of new bio-based value chains

Primary production

Waste



Sugar beets

Algae



Wood residues

INTO



Biological waste





Cosmetics



Plastic bottles Natural colourants for candy



Dashboards



Bio-based plastics

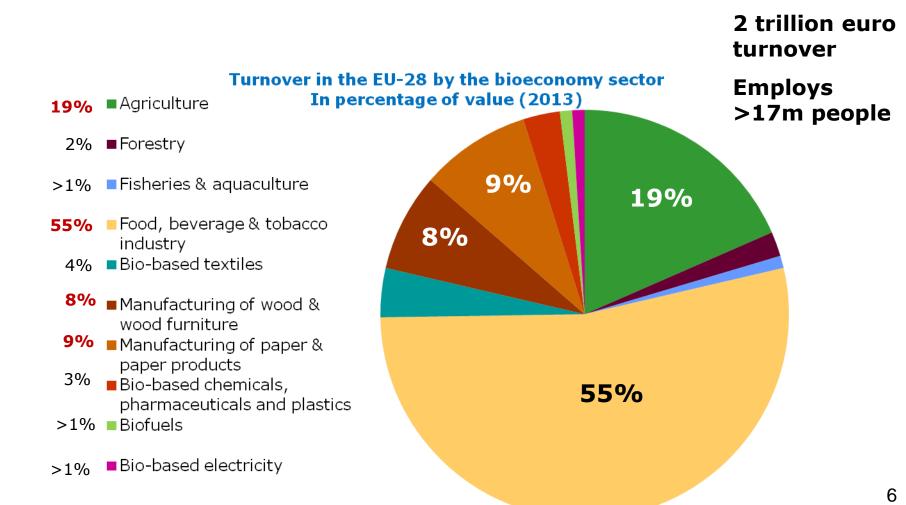


Pharmaceuticals

Bioeconomy - EU & regions



Bioeconomy is key for Europe





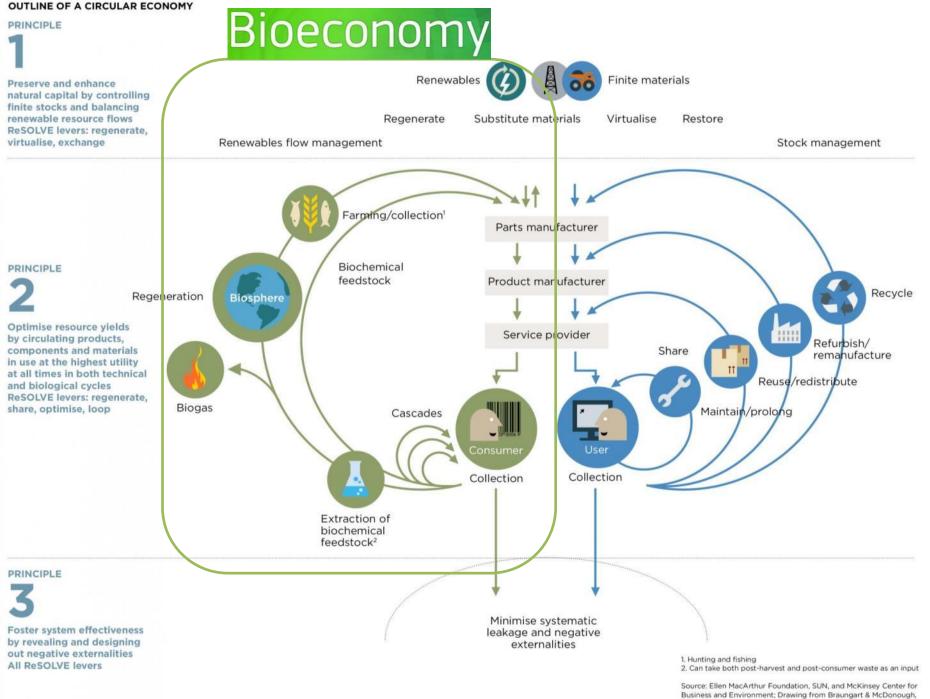
2. EU CONTEXT

2. EU context



- 1. A new boost for jobs, growth and investment
- 2. A connected digital single market
- **3. A resilient Energy Union with a forward looking climate change policy**
- 4. A deeper and fairer internal market with a strengthened industrial base
- 5. A deeper and fairer EMU
- 6. A reasonable and balance free-trade agreement with the U.S.
- 7. An area of justice and fundamental rights based on mutual trust
 8.Towards a new policy of migration
 9. A stronger global actor
 10. A Union of democratic change





Business and Environment; Drawing from Braungart & McDonough Cradle to Cradle (C2C).



3. EU BIOECONOMY POLICY





EU Bioeconomy Strategy introduced in 2012



EU Bioeconomy Strategy & Action Plan

Investment in R&I

Policy interaction & stakeholder engagement

SCIAL CONTRACTOR

Enhancement of markets & competitiveness in bioeconomy



- Horizon 2020 (€3,8b SC2)
- Increase multidisciplinary & cross-sectoral R&I
- ESIF Smart Specialisation
- EFSI

- EU Policy coherence
- Development of regional and national bioeconomy strategies
- Bioeconomy Panel
- Bioeconomy Observatory
- International cooperation

- Sustainable intensification of primary production
- Expansion of new markets
- Increase EU competitiveness
- BBI JU



Source: German Bioeconomy Council,





Source: German Bioeconomy Council, Maisei/fotolia.com (flags), jktu_21/fotolia.com

IN EUROPE:

Several MS have adopted **national Bioeconomy Strategies**.



More than 10 Regions are investing in **Research on Bioeconomy (ESIF)**

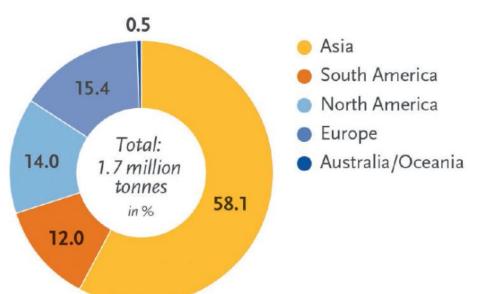
Finland and Poland the most involved countries (Source: eye@RIS3)

- dedicated bioeconomy strategy
- bioeconomy-related strategy
- be-related strategy; dedicated be-strategy is under development

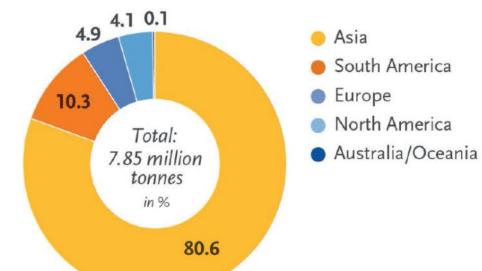
dedicated be-strategy is under development 14



Global production capacities of bioplastics in 2014 (by region)



Global production capacities of bioplastics in 2019 (by region)



Europe needs to act to remain competitive for industrial production and attract investment in the bioeconomy

Source: European Bioplastics, Institute for Bioplastics and Biocomposites, nova-Institute (2015).



Next steps for the EU Bioeconomy policy: ..with the <u>support of the EU Regions</u>

PRIORITIES

Boost

<u>investments</u>

ACTIONS

- Financial Instruments EIB/InnovFin
- Synergies with **ESIF** (SoE, Widening participation)
- Link with other programmes (EFSI, COSME...)

Favorable <u>policy</u> <u>environment</u>

 Identify and address regulatory & financial or other barriers /gaps/needs (REGIONS' INPUT!!!)

Address <u>Knowledge</u> gaps

- Study to map EU regions BE Plans RIS3 (2016)
- Bioeconomy Knowledge Centre

Increase stakeholders <u>engagement</u>

- KEP-Knowledge Exchange Platform
- Bioeconomy Stakeholder Panel
- Smart Specialisation Platforms, Networks (ERRIN, ERIAFF)

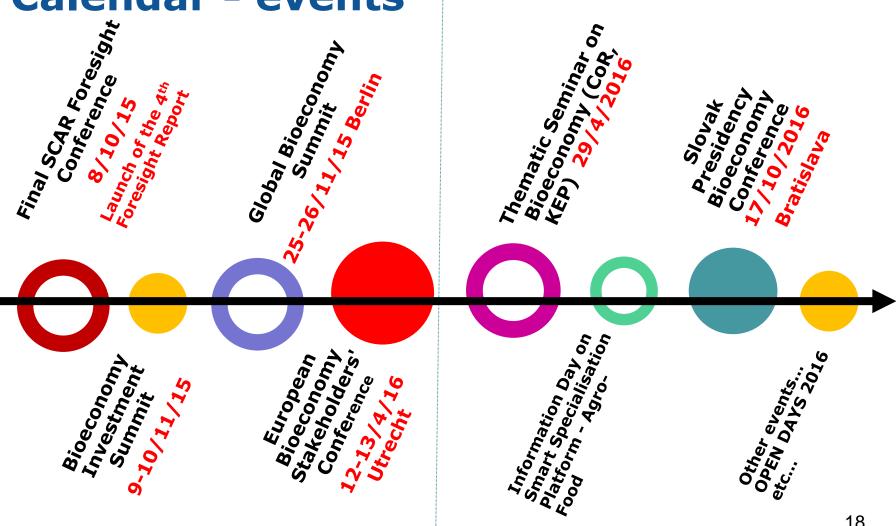
http://s3platform.jrc.ec.europa.eu/guides



4. EU BIOECONOMY STRATEGY REVIEW

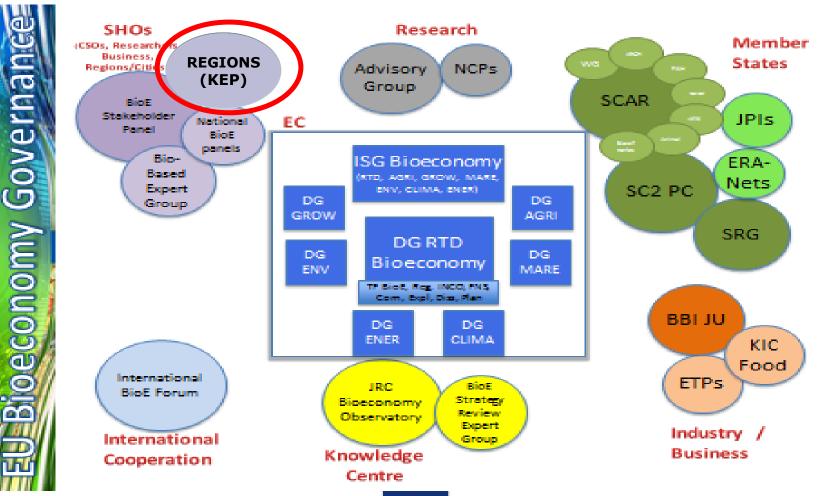


Calendar - events





We count on EU regions for the review of the Bioeconomy Strategy





5. EU REGIONS ARE KEY PLAYERS FOR THE BIOECONOMY



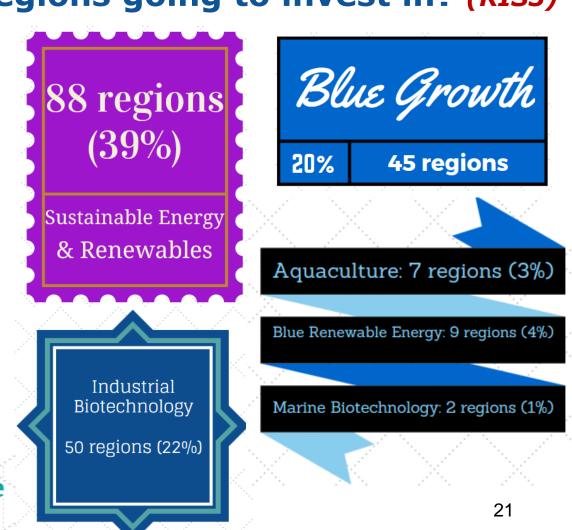
What areas are EU regions going to invest in? (RIS3)

85 regions AGRO-FOOD

23% of EU priorities

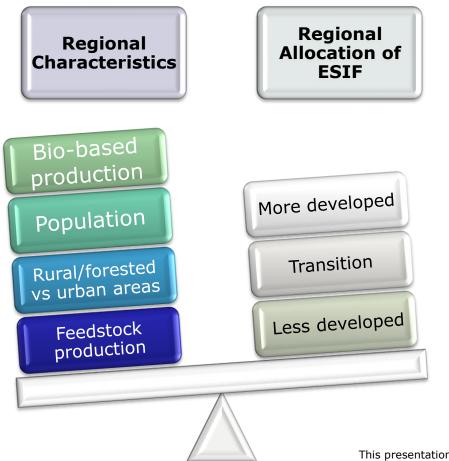
Food Security & Safety 34 regions (15%)

Sustainable Agriculture 24 regions (11%)





EU Regions' diversity is their advantage!



This presentation shall neither be binding nor construed as constituting commitment by the European Commission



Regional Bioeconomy Strategy Development 4 fundamental ingredients Stable investment climate Smart **Specialisation** Strategy **Political Business** Commitment Commitment

Source: ERRIN Consensus Document – How to build Effective Regional Strategies? (2016)



Regional Bioeconomy Strategy Development

7 Tips to remember!

- 1. Learn from Best Practices! (various EC Guides, web-sites)
- 2. Link/create networks, clusters (Clusters Observatory)
- 3. Involve in existing initiatives (BBI JU, Vanguard)
- 4. Use available tools (eye@RIS3, Bioeconomy Observatory)
- 5. Look for inter-regional + macro-regional opportunities *Baltic, Danube*
- 6. Use public-procurement for new bio-based innovative solutions
- 7. Seek help! (Bio-NCPs, EIP-AGRI)

Useful for you..









INDUSTRIES

Bio-Based Industries Joint Undertaking (BBI-JU)

http://www.bbi-europe.eu/

SYNERGIES & SEAL OF EXCELLENCE (<u>new website</u>!) http://ec.europa.eu/research/regions/

AGRI-FOOD SMART SPECIALISATION PLATFORM

http://s3platform.jrc.ec.europa.eu/agri-food (new initiative!)

VANGUARD INITIATIVE/ Bioeconomy Pilot Project

http://www.s3vanguardinitiative.eu/cooperations/bioeconomy-interregional-cooperationinnovative-use-non-food-biomass

GUIDES ON ESIF-H2020 SYNERGIES

http://ec.europa.eu/regional_policy/sources/docgener/guides/synergy/synergies_en.pdfhttp://ec.europa.eu/research/participants/portal/desktop/en/opportunities/other/index.html http://www.bbi-europe.eu/sites/default/files/documents/Guidelines_BBI-ESIF-Final.pdf

S3 KNOWLEDGE REPOSITORY

http://s3platform.jrc.ec.europa.eu/knowledge-repository



Thank you!

barna.kovacs@ec.europa.eu

HORIZON 2020

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