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Boosting bioeconomy by maximizing CSAs results

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Future Scenarios and New Training Strategies to Enhance Skills and Competences for an Innovative and Sustainable Food System

Bioeconomy Education: Challenges, EC funded projects' outcomes, gaps still to be bridged and recommendations

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Objectives

1. Provide a global vision of objectives and results of past and ongoing Coordination and Support Actions (CSA) (FP7, H2020, BBI JU, Erasmus+ and Interreg)

2. Maximise the impact of CSAs results, making them readily available, integrated and especially actionable by industries and policy makers

3. Analyse the existing gaps and identify the challenges to be addressed

4. Raise awareness and communicate the CSAs' contribution in addressing the Bioeconomy related challenges

5. Provide actionable recommendations and suggestions for new CSA topics

https://www.lift-bbi.eu/

Objectives

Initiated by the BIOVOICES project in March 2018 and launched in May, **the European Bioeconomy Network (EuBioNet) is a proactive alliance of 55 EU funded projects + 5 initiatives dealing with Bioeconomy promotion, communication and support**.

The update of the Bioeconomy Strategy mentions the EuBioNet on page 84, 85 and 86 as a key player for promoting and communicating bioeconomy.

1. Maximise the efforts, increasing the knowledge sharing, networking, mutual learning, coordination of joint activities and events.

2. Increase the awareness of environmental, societal and economic benefits of Sustainable Circular Bioeconomy in Europe

3. Design a joint and consolidated action plan of bioeconomy promotion activities and identify impact-oriented strategies to boost the sustainable circular bioeconomy in Europe

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Outcomes

Thanks to the EuBioNet facilitation, **more than 65 joint activities and events** took place.
The following activities will continue to be implemented in 2020 and 2021:

- Promotion of **stakeholders engagement and networking activities** at European, National and Regional level
- **Support the regions and MS in communication**, education and stakeholders engagement activities
- **Co-organisation of events** and focus groups to **discuss the key challenges to be addressed for Bioeconomy**
- Organisation of **awareness raising activities in large scale events** (Maker Faire, Researchers' Night, Bioeconomy Village, Bioeconomy corner at the Sustainable and circular Bioeconomy, the European way and Bioeconomy Scene 2019)
- Involvement as **experts/speakers in Bioeconomy-related events** (Workshops, Advisory boards, conferences, webinars)
- **Increased impact of other project's outcomes** (Promotion of events and activities organised by other members, dissemination of other members' project's results, matchmaking of similar activities) and the role of the EC in promoting the Circular Bioeconomy

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LIFT TOPICAL CATEGORIES

1. Awareness raising and Communication
2. **Bioeconomy Education**
3. Stakeholders engagement and co-creation
4. Standardisation, LCA, labelling and regulatory hurdles
5. Regional potential and bioeconomy strategies and implementation action plans
6. Uptake of RTD results
7. Foresight, market studies and market roadmaps
8. Biomass availability, quality, supply and sustainability
9. New value chains and business models
10. Open innovation platforms and facilities
11. Industrial road-mapping

Resources

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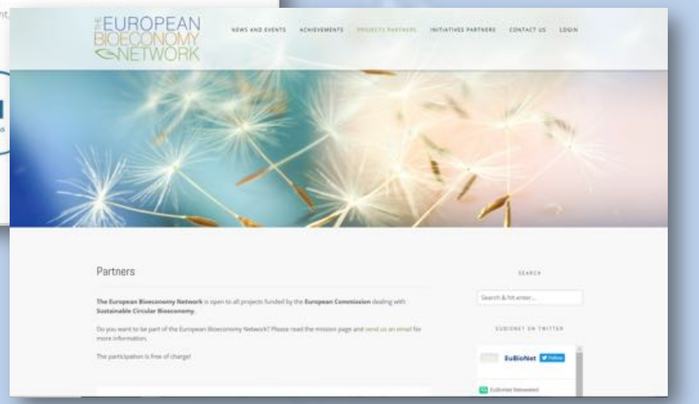
https://www.lift-bbi.eu/

European Bioeconomy library

https://www.bioeconomy-library.eu/

European Bioeconomy Network

https://eubionet.eu



Thematic Factsheets

https://www.bioeconomy-library.eu/bioeconomy-education/

Webinars

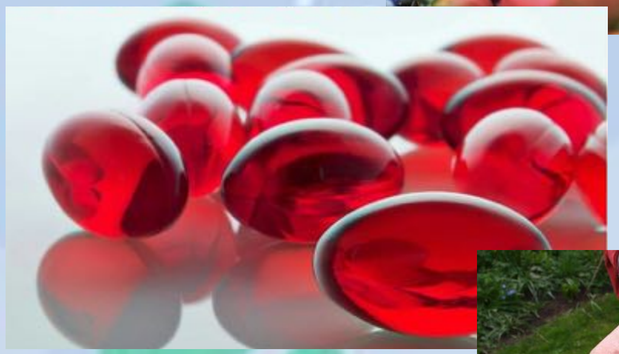
https://www.lift-bbi.eu/webinars

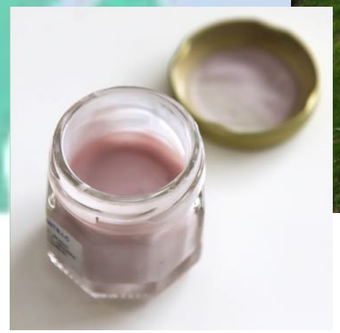
Bioeconomy Education

Related projects/Sources:

Bioeconomy Education

CSAs projects' achievements





Bioeconomy offers interesting opportunities of innovation and growth for the food sector:

- ✓Food safety and security
- ✓New and innovative ways to produce food (but also feed, products and energy)
- ✓New nutrients, superfood, nutraceutical
- ✓High value use of waste and by-products
- ✓Compostable packaging
- ✓Soil protection, restore and land sustainable management

The implementation of Bioeconomy Action plans requires the design of new educational activities, co-created with the stakeholders at regional level.

Bioeconomy Education

CSAs projects' achievements

- ✓ First insights in the **present and future skills needed** across the bioeconomy;
- ✓Ongoing work on **mapping university-level** bio-based economy master course programmes;
- ✓**Development of educational programmes** and materials for all levels of education;
- ✓Info-education and edutainment materials targeting the **younger generations**;
- ✓Training materials developed for **public procurement** professionals;
- ✓New **formats emerging.**

Bioeconomy Education

Gaps still to be bridged

- ✓More **connection between different programmes** & more **interaction with the industry**.
- ✓New curricula needs to be addressed
- ✓Increase of bioeconomy education programmes
- ✓**Integrating bioeconomy principles and contents into already existing curricula**
- ✓Understanding of the bioeoconomy as a cross-sectoral field
- ✓Lack of education curricula targeting potential beneficiaries (including primary producers)
- ✓Need to support the **regional authorities**
- ✓Engagement of **younger generations**

Bioeconomy Education

Recommendations

- ✓ Facilitate **networking, knowledge sharing & collaboration** among educational partners/programmes (example: European Bioeconomy University).
- ✓ **Stimulate the debate** around education in bioeconomy towards an improved educational system better responding to the bioeconomy evolutions.
- ✓ **Identify new skills and competences**, to make sure that the future workforce responds to the real (and updated) needs of all bioeconomy sectors.
- ✓ **New formats** for the delivery of bioeconomy education should be explored, exploiting good practices & results of CSA projects and other initiatives. E.g.: Mobilization and Mutual Learning, Living Labs, co-creation of knowledge, integration of bioeconomy into existing curricula/ programmes.
- ✓ **Implement new educational paths** targeting feedstock providers, policy makers (incl. procurers), intermediaries, entrepreneurs, multipliers etc.
- ✓ Education needs and curricula should be designed and implemented **at regional level**; an integrated vision of the educational framework should be designed centrally (at European level) and deployed locally
- ✓ **School activities**, starting very early, are fundamental to grow a future generation knowledgeable and sensitive to environmental issues. This will help rise a generation that is inspired, interested in bioeconomy, thus attracting talented youngsters towards education and career in this domain.

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