BIG

A novel biorefinery concept for mushroom compost

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RECOMMENDATIONS FOR A CIRCULAR ECONOMY IN EUROPEAN AGRICULTURE Bénédicte Julliard – Greenovate! Europe

TOWARDS A CIRCULAR AGRO-FOOD INDUSTRY. 4 APRIL 2019. BRUSSELS.

This project has received funding from the Bio Based Industries Joint Undertaking under the European Union's Horizon 2020 research and innovation programme under grant agreement No 720708.





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POTENTIAL OF AGRO-FOOD RESIDUES USED MUSHROOM COMPOST





Current uses:

- 1. Spread on the land and used as soil fertiliser
 - Sterilisation needed
 - Limitations related to nitrates levels
- 2. Landfilled
 - High landfill taxes
 - Limits on biodegradable waste

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POTENTIAL OF AGRO-FOOD RESIDUES

million tonnes of agricultural residues each year, from more than 130 crops

million tonnes should remain in the fields or are already collected for agricultural uses

million tonnes available for bio-based products and bioenergy

- + Lower sustainability concerns
- + Growth and job creation in rural areas

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395

334

62













BARRIERS AND CHALLENGES TOWARDS THE EXPLOITATION OF AGRO-FOOD RESIDUES

- Insufficient harmonisation in the classification of agricultural residues across member states
- High logistical costs and lack of infrastructures for biomass collection
- Difficulty to ensure stable and all year round supply
- Difficulties for scaling up to industrial level
- **Difficult calculation of GHG** reduction potential along the value chain
- Challenging engagement of stakeholders across the entire value chain



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THE EUROPEAN FRAMEWORK

Towards a cohesive cross-sectoral policy framework



- Bioeconomy strategy: emphasis on rural development and inclusive value chains
- Support to research and innovation in the agro-food sector
- Contribution of bio-based industries towards EU climate targets to be acknowledged
- More **constistency** needed between regional, national and European levels

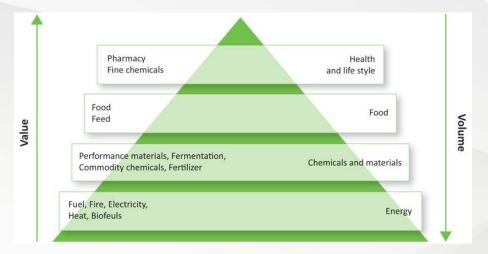
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THE EUROPEAN FRAMEWORK

- Strong political support to bioenergy
- Well developed subsidies schemes
 - Competition for feedstocks between bioenergy and biomaterials
 - Distortions of market prices for higher value applications
 - > Sub-optimal usage of feedstocks according to the cascading use principle



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- Recognise the value of agricultural wastes as a resource, to incentivise their use
- Mapping of resources & economic potential needed at national and regional level
- Greater clarity needed for feedstock certification regarding bio-based products
- Harmonised classification of agricultural residues in national waste management policies to safeguard optimal use



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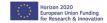




- Grants for the establishment of cross-sectoral biomass value chains to overcome local fragmentation
- Establishment and promotion of the development of cooperative organisations and clusters
- Training and awareness raising

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BIOCONVERSION AND PROCESSING

- Integration of biorefineries into existing industries
 Support the deployment of public private partnerships
- Secure investments in infrastructures with dedicated financial instruments
- Networking platforms to connect investors with projects
 - ➤ €100 million Circular Bioeconomy Investment Platform



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- Embedding external environmental impact into products' cost to overcome competitive advantage of fossil based products
- Strong public support to bio-based products
 - ✓ Targets in specific categories or for selected sectors
 - Public procurement
- Communication, awareness raising and education



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SUMMARY

- Continued and increased financial support to research and development, and especially public private partnerships
- Investments in relevant infrastructures for collection and conversion of agricultural residues
- Foster cross-sectoral collaboration to build new value chains
- Education, training, and awareness raising
- Consistent certification schemes for agricultural feedstocks and bio-based products
- Embedding external environmental costs into products costs
- More cohesive policy framework across sectors from regional to European level

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WHAT DO YOU THINK IS THE PRIORITY?

Answer the poll and join the discussion on sli.do **#biorescue**



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Thank you for your attention

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