



# EU Projects funded under the Bio-Based Industries initiative

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# Bioeconomy Overview



*Use biological resources instead of fossil material.*

*Bioeconomy combines research, innovation, technology,  
environment & economy*

The challenges:

- Climate change and scarcity of resources
- Dependency on fossils vs. biological material
- Global challenge - requires international cooperation
- Shared responsibility - acting together for SDG

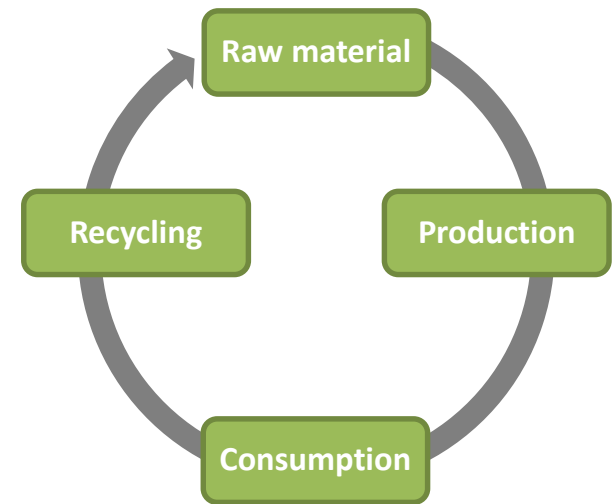
→Public dialogue through multidisciplinary networks and platforms– policy makers support needed!



# Bioeconomy Solutions



- Research and innovation for economic development without diminishing natural resources
- Through integration of technology and natural sciences
- sustainable, circular economy
- Industrial nations pioneers in bioeconomy (policies and strategies)
- Austrian national bioeconomy R&I strategy since January 2018, action plan since 2015



# SUSBIND Challenge



## SUStainable BINDers: Development and pilot production of sustainable bio-binder systems for wood-based panels (RIA)

- Current binders for wood particle boards are fossil-based
- No industrial bio-based binder available
- Upcoming regulations: reduce formaldehyde emissions
- Consumers willing to pay "more" for green products



SUSBIND has received funding from the Bio Based Industries Joint Undertaking (JU) under grant agreement No 792063. The JU receives support from the European Union's Horizon 2020 research and innovation programme and the Bio Based Industries Consortium.



Horizon 2020  
European Union Funding  
for Research & Innovation



Bio-based Industries  
Consortium



# SUSBIND Impact



- By-product as feedstock to produce bio-based binders
- Green advantage - strengthen the European furniture industry, over low price imported products
- Help mitigate climate change
- Benefits for public health, strengthening rural economies



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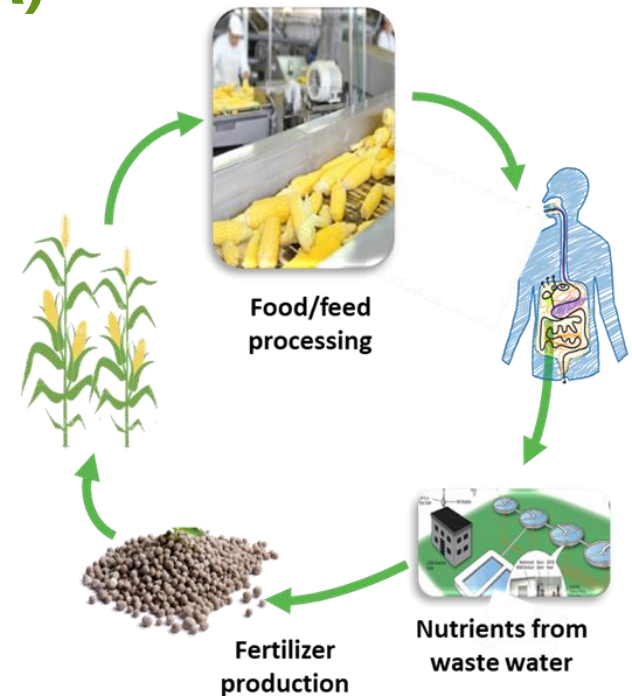


# SUSFERT Challenge



## SUStainable multifunctional FERTiliser – combining bio-coatings, probiotics and struvite for phosphorus and iron supply (IA)

- Rising demand for sustainably produced food and feed
- Standard fertilisers are non-renewable, resource-intensive
- Dependency on imported resources
- Nutrient availability not always meeting plant needs



Example: Struvite cycle

# SUSFERT Impact



- Develop multi-functional fertilisers for phosphorus and iron supply
  - less mined, imported phosphate rock (by 40%)
- Uses by-products from wastewater treatment, bioethanol production and pulp & paper industry
  - strengthens the circular economy and rural communities
- Controlled release of nutrients
  - reduces soil and water contamination



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# Fact box



- Research & Innovation Action (RIA)
- Target TRL: 5
- Number of partners: 11
- Start: 1<sup>st</sup> May 2018
- Duration: 4 years
- Budget: €5.5 Mio.
- BBI-JU funding: €4.1 Mio.



- Innovation Action (IA)
- Target TRL: 8
- Close to market
- Number of partners: 11
- Start: 1st May 2018
- Duration: 5 years
- Budget: €9.4 Mio.
- BBI-JU funding: €6.6 Mio.

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