Der Bioökonomierat der Bundesregierung

The German Bioeconomy Council

BioÖkonomieRat

Members of the German Bioeconomy Council

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- **Prof. Dr.-Ing. Daniela Thrän**, German Biomass Research Centre (DBFZ)
- **Prof. Dr. Iris Lewandowski**, Chief Bioeconomy Officer (CBO), Focus on Biobased Resources in the Bioeconomy, University of Hohenheim
- **Dr. Beatrix Tappeser,** Retired state secretary
- **Dr. Markus Wolperdinger**, Fraunhofer Institute for Interfacial Engineering and Biotechnology IGB
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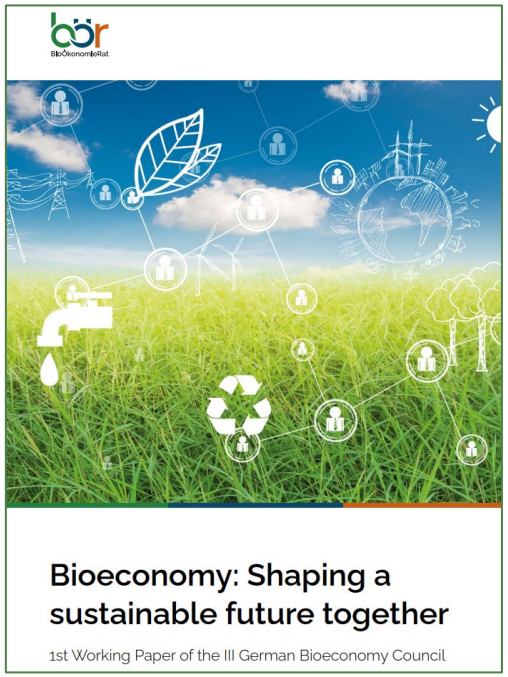
- **Prof. Dr. Peter Feindt**, Agricultural & Food Policy Group, Thaer Institute for Agricultural & Horticultural Sciences, Humboldt-University Berlin
- **Prof. Dr. Ulrike Grote**, Institute for Environmental Economics and World Trade, Leibniz University Hannover
- **Prof. Dr. Stefanie Heiden**, Institute of Innovation Research, Technology Management & Entrepreneurship ITE, Hannover University
- **Prof. Dr. Ralf Kindervater**, BIOPRO Baden-Württemberg GmbH
- **Prof. Dr. Thomas Lemke**, Chair of Sociology with a focus on Biotechnologies, Nature and Society, Frankfurt University
- **Dr. Felix Prinz zu Löwenstein**, Fibl Germany, Misereor association
- **Prof. Dr. Monika Pischetsrieder**, Chair of Food Chemistry, Friedrich-Alexander-University Erlangen-Nuremberg
- **Prof. Dr. Klaus Richter**, Chair of Wood Science, Technical University of Munich
- **Prof. Dr. Imme Scholz**, Heinrich Böll Foundation

The German Bioeconomy Council and its mission

- Develop recommendations for concrete measures to implement the national bioeconomy strategy (NBÖS) and to support the transition to a sustainable bioeconomy
- Involve policy, industry and civil society into the development of these recommendations

Fields of action…



The statutory targets in the areas of climate protection, biodiversity, sustainability and circular economy serve as landmarks for our work. We see significant contributions to the implementation of these guidelines in the following fields of action, among others:

- Sustainable land and land use
- Measures and innovations to reduce greenhouse gases (GHG)
- Stable conditions for Bioeconomy-innovations
- Resource shift

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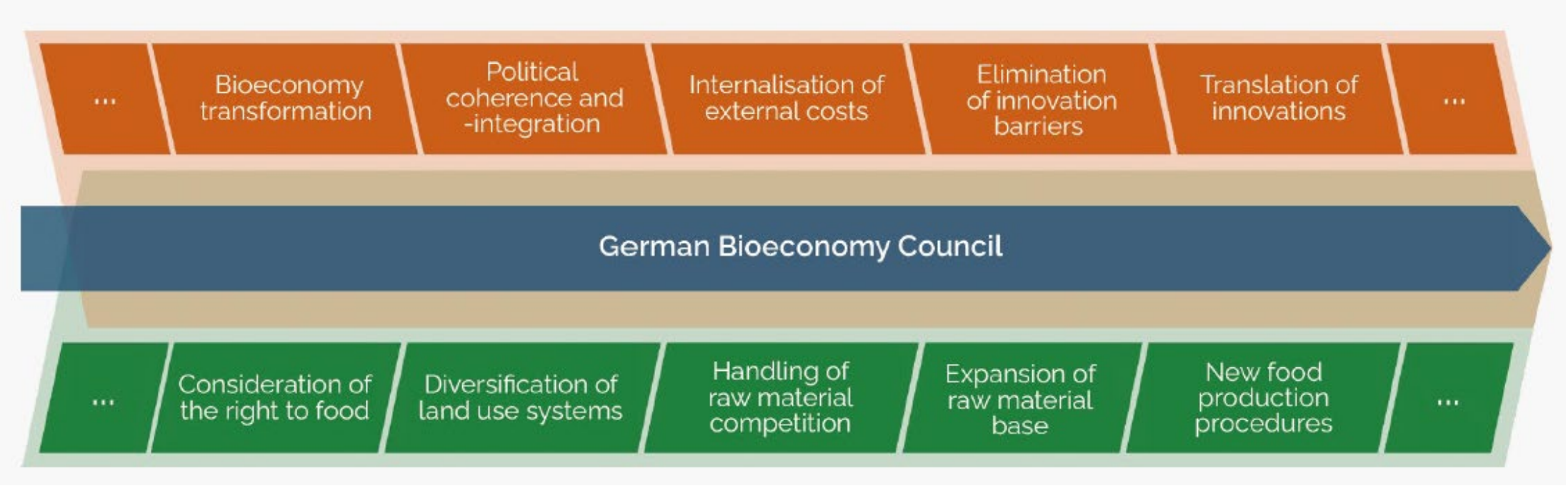
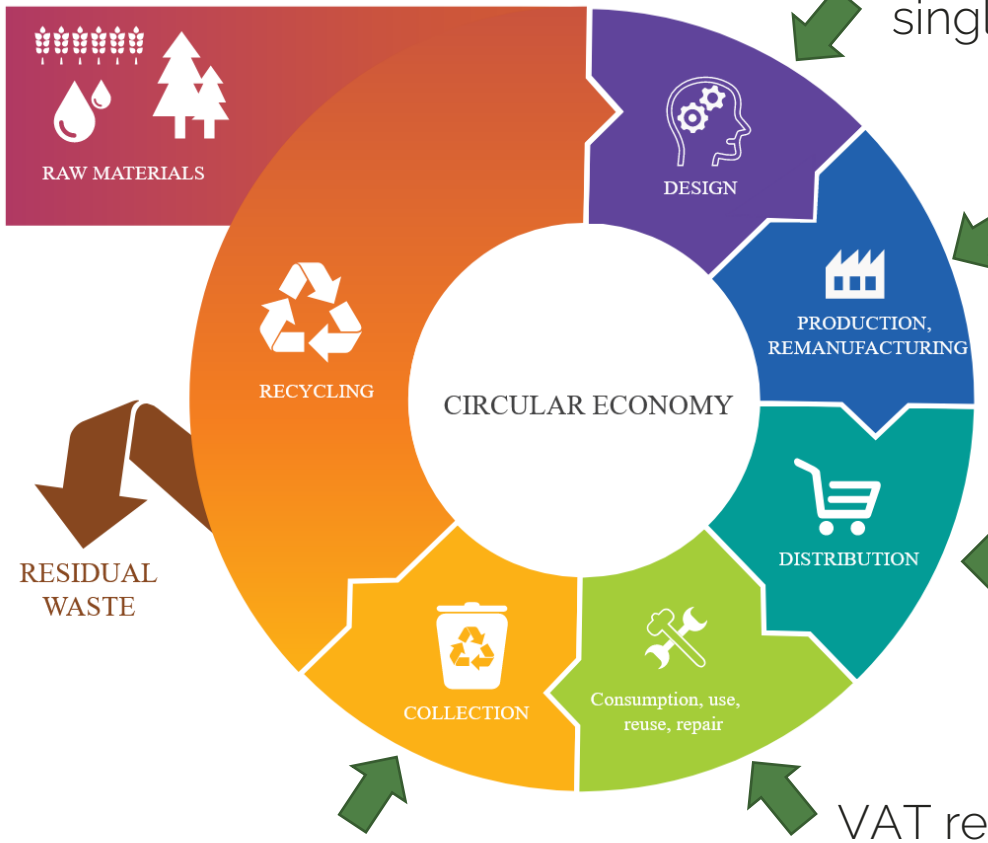
Current and future topics



https://www.biooekonomierat.de/en/events/event-reports/council-meeting-february.php

Encouraging behavioral changes in lifestyles: fiscal incentives approaches

Resource taxation



Extended producer responsibility for single-use products

Tax benefits for operational resource management

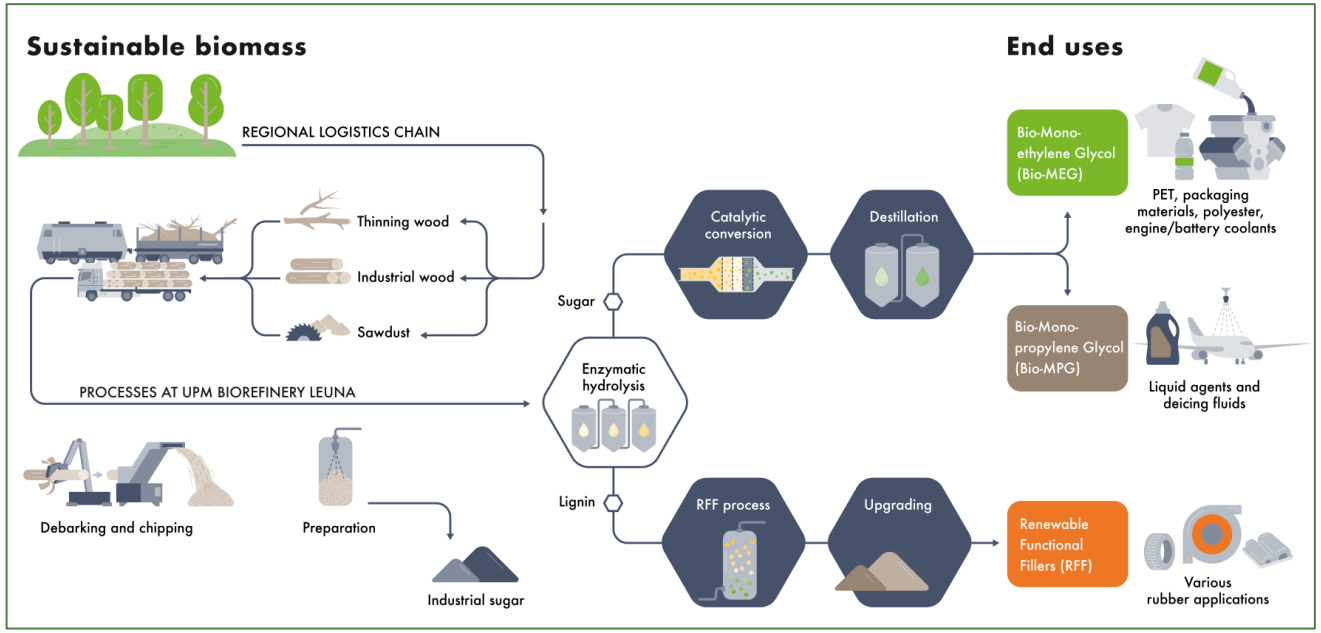
VAT increases for to-go products

VAT reduction for repair services

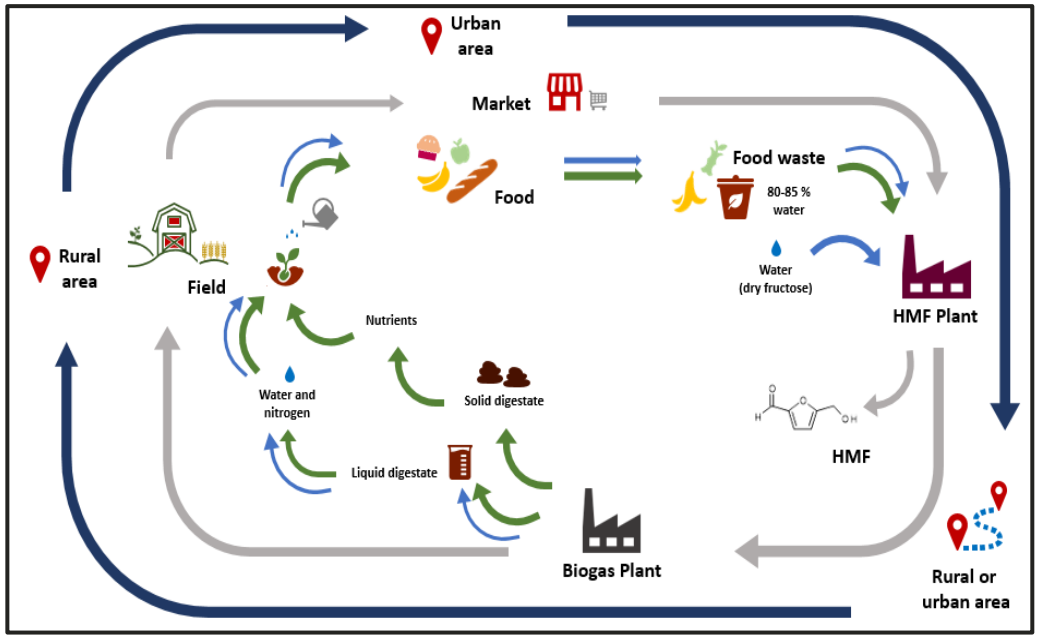
Deposit systems

Source: European Parlament, Forum Ökologisch-Soziale Marktwirtschaft

Biorefinery
with closed nutrient and water circles at different scales



Source: UPM Biochemicals, Leuna



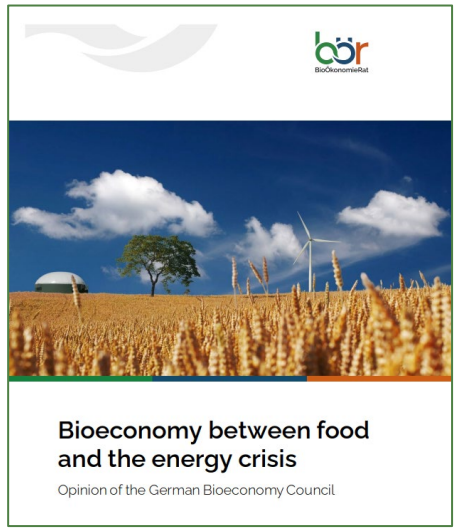
Source: Prof. Dr. Andrea Kruse, University of Hohenheim

Industrial and agricultural biorefineries

provide green products | use wide range of raw materials | establish value chains

- Expanded raw material base: waste water, waste and certain types of CO_2
- Integration of biorefineries into existing infrastructures
- Translation: transfer of developments from the laboratory to industrial or agricultural reality
- Sustainability: Comprehensive assessments of ecological effects covering the entire life cycle
- Costs: CO_2 price as an important prerequisite

Bioeconomy: Key to overcoming the crisis and paving the way for transformation



A sustainable bioeconomy can help provide answers to the issues of how the consequences of the food crisis can be mitigated in the short, medium and long term, and how the energy and raw materials transition can succeed.

- future tasks require rapid and comprehensive further development of the bioeconomy and its implementation without putting further pressure on the already strained global food situation

- food security be given priority over the material and energy use of agricultural products and biomass

Conclusion: Overcoming crises and setting the course for transformation requires the interplay of social, ecological and economic factors

Bioeconomy: Key to overcoming the crisis and paving the way for transformation

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Food security and food availability

Measures:

- Reduction of Meat consumption, livestock numbers and animal feed
- Better use of opportunities in CAP and net-zero land consumption
- Worldwide resilient agricultural systems and international agreements
- Circular economy in agriculture and new business models
- Encouraging behavioral changes in lifestyles

Bioeconomy: Key to overcoming the crisis and paving the way for transformation

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Energy and raw materials transition

Measures:

- Reduction in consumption of fossil-based energy and less energy consumption in transport → paving the transition to renewable energy sources
- Exploitation of unused biogenic raw materials and Customising biofuel controls
- Supporting the market introduction of biorefineries
- Carbon strategy and CO_2 prices
- Circular economy and cascade use of energy-intensive raw materials
- Encouraging behavioral changes in lifestyles

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Thank You very much