The German Bioeconomy Council

Realizing the Bioeconomy in the Baltic Sea Region – Workshop II

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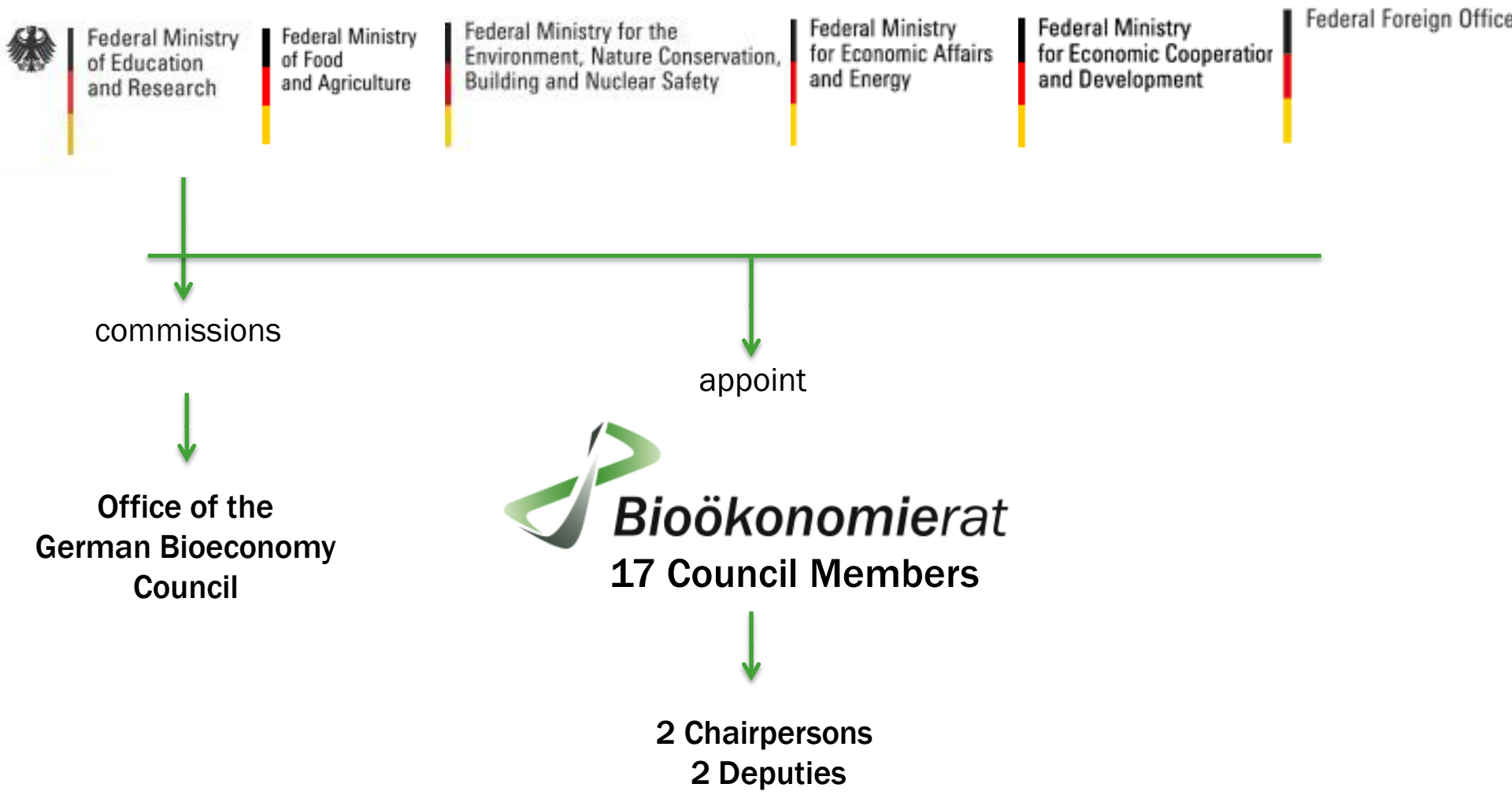
Perspectives on impact, private sector engagement and financing the transition towards the bioeconomy

A. Overview of the German Bioeconomy Council

B. Bioeconomy Policy Strategy and Council Perspectives

C. Bioeconomy Cluster Central Germany – an Example for Seed Financing and Private Sector Engagement

A) German Bioeconomy Council - Organisational Setting



A) Bioeconomy Council - Professional Competencies

- Mix of practitioners and researchers

- Broad field of thematic expertise:
  - from farming to nutrition
  - from agro-science to industrial biotechnology
  - from biodiversity and sustainability to food security
  - from economics to consumer marketing
  - from policy design to evaluation

A) Bioeconomy Council –vision of the BE

… Bioeconomy is a strategic investment

Energy policy / Climate / Carbon as a raw material / New bio-chemistry / Export of technologies / Sustainable raw materials strategy

… Bioeconomy requires perseverance, communication and continuous investment in research

… Bioeconomy is more than just a strategy for substituting raw materials, but it is a new competitive strategy

A) Bioeconomy Council – Objectives & Tasks

Goal

Implementation of an innovation-driven **biobased economy** in Germany that combines **economic growth** with **ecological sustainability**

Main Tasks

1. Advising on the German Bioeconomy Policy
2. Advising on the implementation of political strategies
3. Dialogue with societal stakeholders

B) German Bioeconomy Policy Strategy, 2013 – at a glance

- Coordinated bioeconomy policy
- Focus on science & innovation
- Led by Ministries of Research and Agriculture
- Measures to solve target conflicts between policy programs
- Integration of existing and planned measures of all Ministries
- No additional budget allocated

B) German Bioeconomy Strategy – Effects on Council Work?

- Council participation in strategy development
- Efficient communication: Interministerial Working Group as single contact point and communication forum
- Mainstreaming of BE policy in all Ministries involved, e.g., establishment of BE divisions or units
- Mechanism to identify, discuss and solve conflicting targets in promotion programs
- Council tasked to accompany strategy deployment, e.g., input to definition of promotion measures, prioritisation of measures

B) Implementation of the Policy Strategy – Council Priorities

Advise on R&D needs and implementation measures:

1. Production and sourcing of renewable resources
2. Nature and conservation
3. Competitiveness of the bioeconomy
4. Consumer benefits and health
5. BE innovation and technology
6. Policy framework and regulations impacting the BE

Topics with established working groups in 2014

B) Council perspectives on impact of the BE in Germany

Opportunities ....

... interest is high and increasing

... high level science & technology

... expertise in engineering

... good industrial structure

... consumer interest in conservation & sustainability

Challenges:

... economic & ecological viability

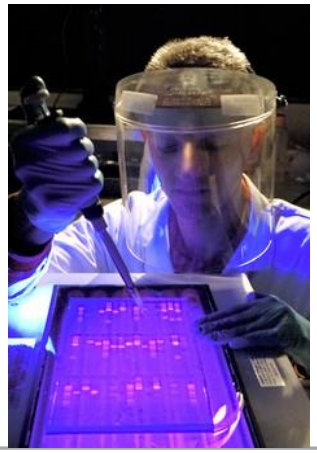
... social scepticism

... revolutionary ideas beyond bioenergy and biomaterials

... markets & financing

B) Council perspectives on impact of the BE– Conflicting Goals & Controversies in Germany

- Food vs. industrial use
- Non-food biomass: energetic vs. material use
- Traditional vs. industrial farming
- Scientific advance vs. ethical and ecological concerns



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B) BE impact – Council recommendations

(1) **Transition:** policy promotion & intervention

(2) **Participation:** broad stakeholder dialogue

(3) **Conflicts & undesirable developments:** mechanisms of foresight, impact assessment & institutional learning

(4) **Food Security:** cooperation with emerging & developing countries

(5) **Sustainability of imports:** definition of trade agenda

(6) **Global impacts:** promotion of global control mechanisms

B) Private sector engagement – Council recommendations

(1) **Market development:** regulations, standards & labels

(2) **Agricultural & industrial policy:** focus on technological lead & access to finance

(3) **Education & Research:** interdisciplinary professional & academic training

C. The BioEconomy Cluster - Central Germany

BioEconomy Cluster

www.bioeconomy.de

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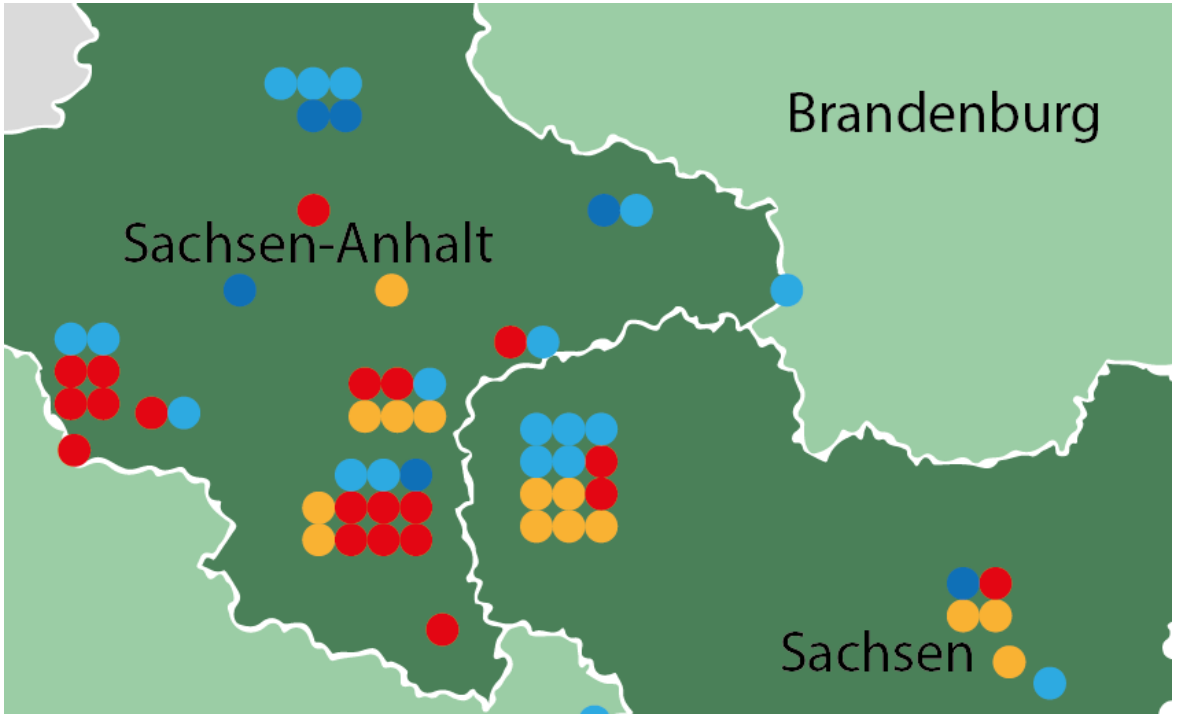
Leading in bioeconomy



*Extension of an **existing fossil feedstock** by **biomass as raw material** and **inclusion of the relevant research institutions** to form an innovative BioEconomy Cluster*

Regional Network with an international perspective

Strategic Vision

Development of the cluster into a model region for a sustainable bio-economy in Europe

Sustainably maximizing **value creation of non-food biomass t**hrough coupled production and cascaded utilisation in order to generate chemicals, new materials and energy.

Speeding up innovation through the integrated, temporally and spatially coordinated up-scaling of processes and plants from laboratory to demonstration and industrial scale.

Linking regional structures for a high-performance micro system (politics, business, research, education)

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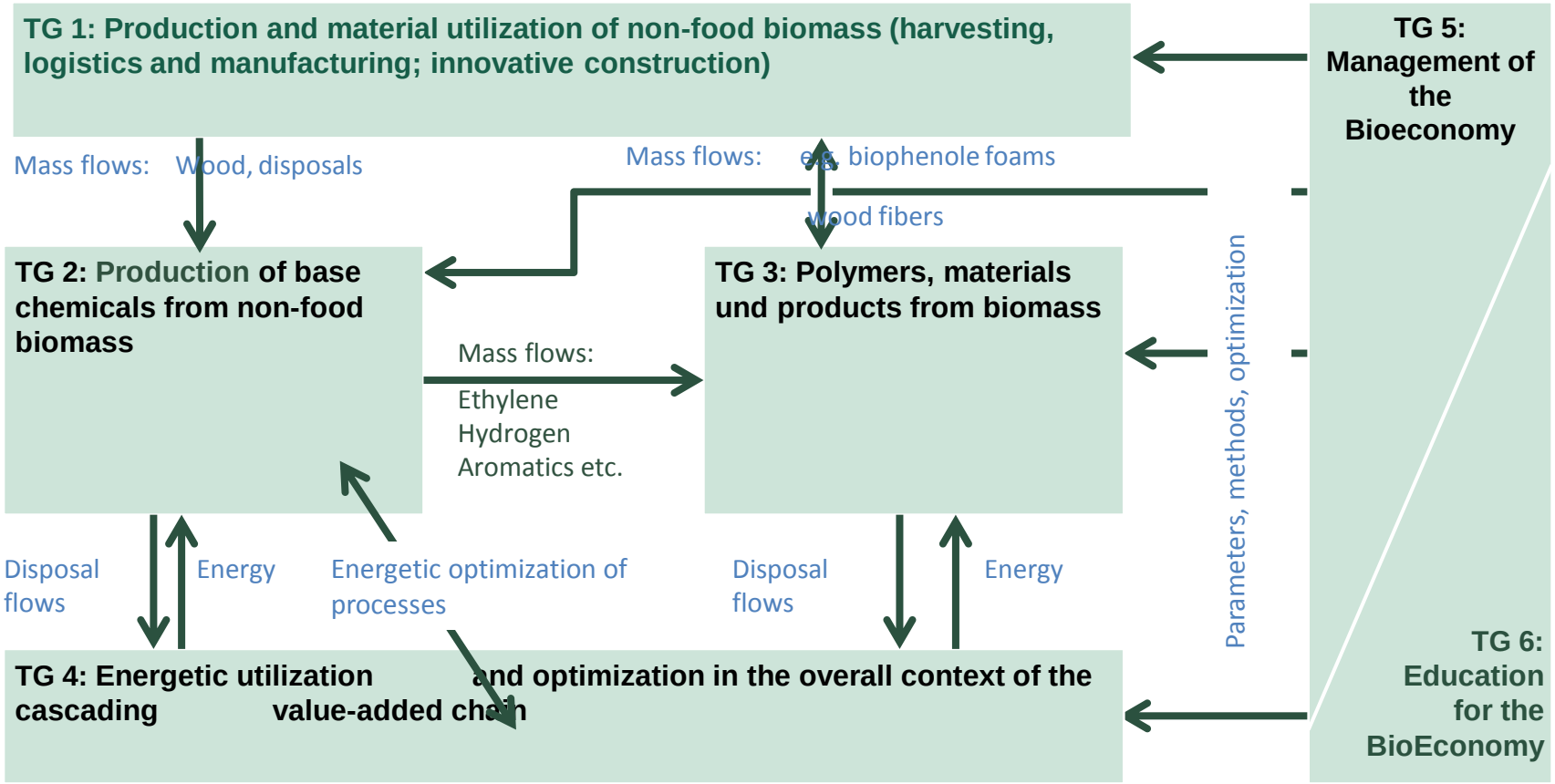
Topics of the BioEconomy cluster network



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Project Examples

Formholzprodukte (TG 1)

Herstellung faserverstärkter Rundprofile aus Holz als tragende Bauteile

Biomass2Chemicals (TG 2)

Herstellung von biogenem Wasserstoff u. Kohlenwasserstoffen aus Holzresten

LignoSandwich (TG 3)

Ligninbasierte Phenolharzsysteme zur Herstellung von Sandwichelementen

Biogas aus Schlempen (TG 4)

Erzeugung von Biogas und Biomethan aus Produktionsrückständen

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Thank you for your attention

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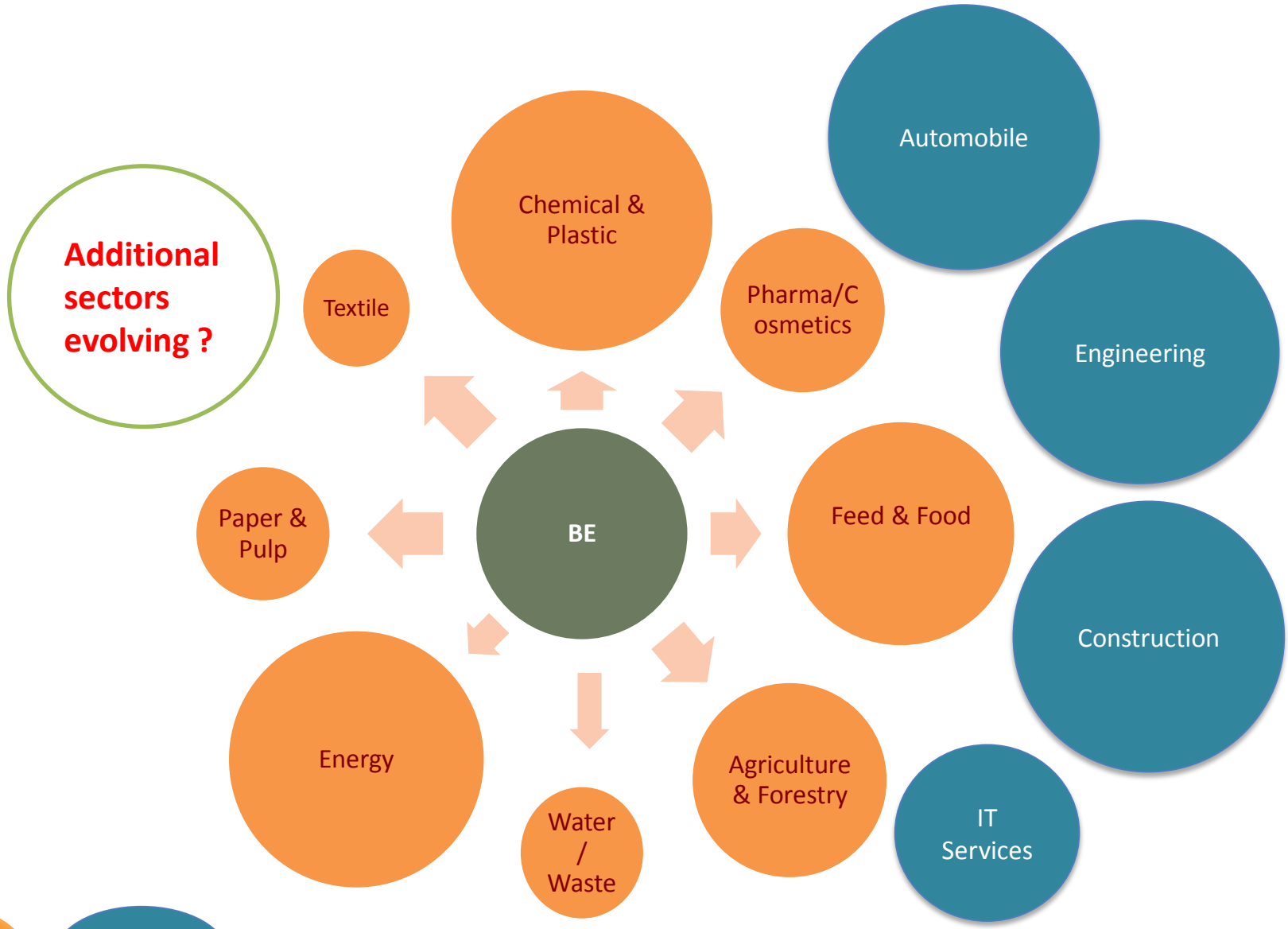
B) BE in Germany– industry sectors involved



bubble size => approximative economic importance