Towards a Sustainable Bioeconomy: Integrating Environmental Concerns in Germany's Bioeconomy Discourse

Towards a Sustainable Bioeconomy
Innovative Methods and Solutions for the Agriculture and Forest Sectors
Sant Pau Art Nouveau Site in Barcelona, Spain
21 October 2015

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"The knowledge-based bioeconomy can combine economic prosperity with environmental compatibility."

(BMBF 2011)

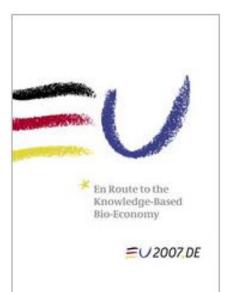


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Bioeconomy: a top priority in Germany



 2007- One of the first initiatives was formulated during the conference "En route to the Knowledge-Based Bio-Economy", held under the German Presidency (Cologne Declaration, 2007)



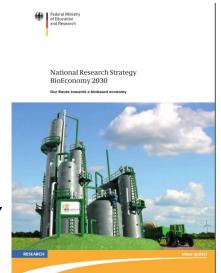
 2008-The global financial crisis accentuated the focus on "green growth"

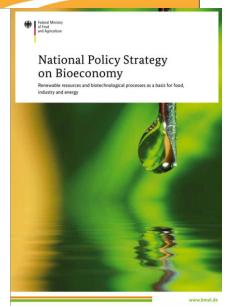


Bioeconomy: a top priority in Germany

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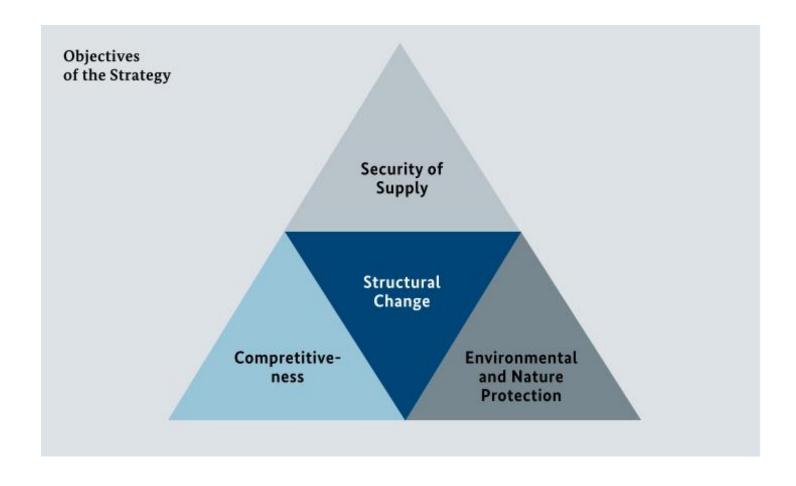
- 2009- bioeconomy advisory board to the German government (Bioökonomierat)
- 2011- official national research strategy: "National Research Strategy Bioeconomy 2030: Our Route Towards a Biobased Economy"
- 2014- official policy strategy "National Policy Strategy on Bioeconomy: Renewable resources and biotechnological processes as a basis for food, industry and energy"







Bioeconomy: a top priority in Germany



Sustainable Development (SD) and bioeconomy



- SD strategies aim to balance the economic, social and environmental aspects;
- SD is repeatedly highlighted in the German strategies as the overarching goal of the shift towards Bioeconomy;
- However, the Bioeconomy in itself cannot be considered as self-evidently sustainable;
- There are different visions about the relationship between Bioeconomy and sustainability (Pfau et al. 2014);
- Bioeconomy is supposed to support SD but economic aspects are clearly dominant (Pülzl et al. 2014);

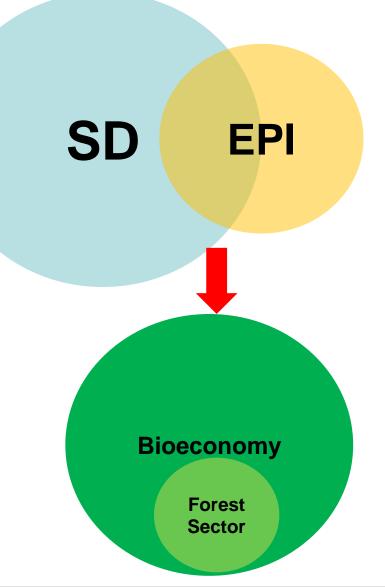


Environmental Policy Integration (EPI)

- EPI means including environmental considerations into other policies, with a view to achieving SD;
- Regarded as a "first-order operational principle" to implement and institutionalize the idea of SD (Lenschow 2002);
- However, integration has not yet reached the desired goals;
- "Economic" sectors, such as forest or agricultural sectors have been identified as "resistant" when it comes to integrating environmental concerns (Lenschow 1997);



Objectives



- If and how the concepts of SD and EPI have been integrated in Germany's political bioeconomy discourse
- If the forest sector discourse on bioeconomy integrates environmental concerns, and if so in which way



Theoretical Considerations

 General theoretical concept of policy integration focusing on idea based integration - across different political levels (from the EU to Germany - and the other way around) and across different policies (Environmental, SD and bioeconomy policy).



Empirical Approach

- Qualitative document analysis: Germany's national and EU political strategies concerning and/or related with bioeconomy, as well as political strategies of the forest sector dealing with bioeconomy;
- In order to trace frames (Entman 1993) thematic idea analysis was applied (Söderberg 2011);
- Qualitative interviews with key stakeholders;



Preliminary Results and Conclusions

- Ambiguous relationship between SD and EPI seems to prevail in Germany's discourse on bioeconomy;
- Some indication of environmental learning, however it cannot be considered that EPI has been consistently and unambiguously integrated in the bioeconomy strategies;
- Mainstreaming SD-related concepts into the national bioeconomy strategies has diverted attention from EPI;
- Quite often there is a blurry line between the promoted values;
- Economic aspects at the forefront while environmental concerns are secondary- seen as directly dependent on economic growth;

Preliminary Results and Conclusions (continued)

- The importance of forests is repeatedly highlighted together with their role in climate change mitigation;
- Challenges: provision of sufficient biomass, intensifying competition for land use between agriculture and forestry;
- Environmental considerations and sustainable forest management are frequently advocated, however no concrete integrations pathways for EPI are suggested;



Thank you for your attention!

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Cited Literature

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