

Applied research in wood based bioeconomy - status quo and future priorities

Matthias Dieter

Thünen Institute of International Forestry and Forest Economics

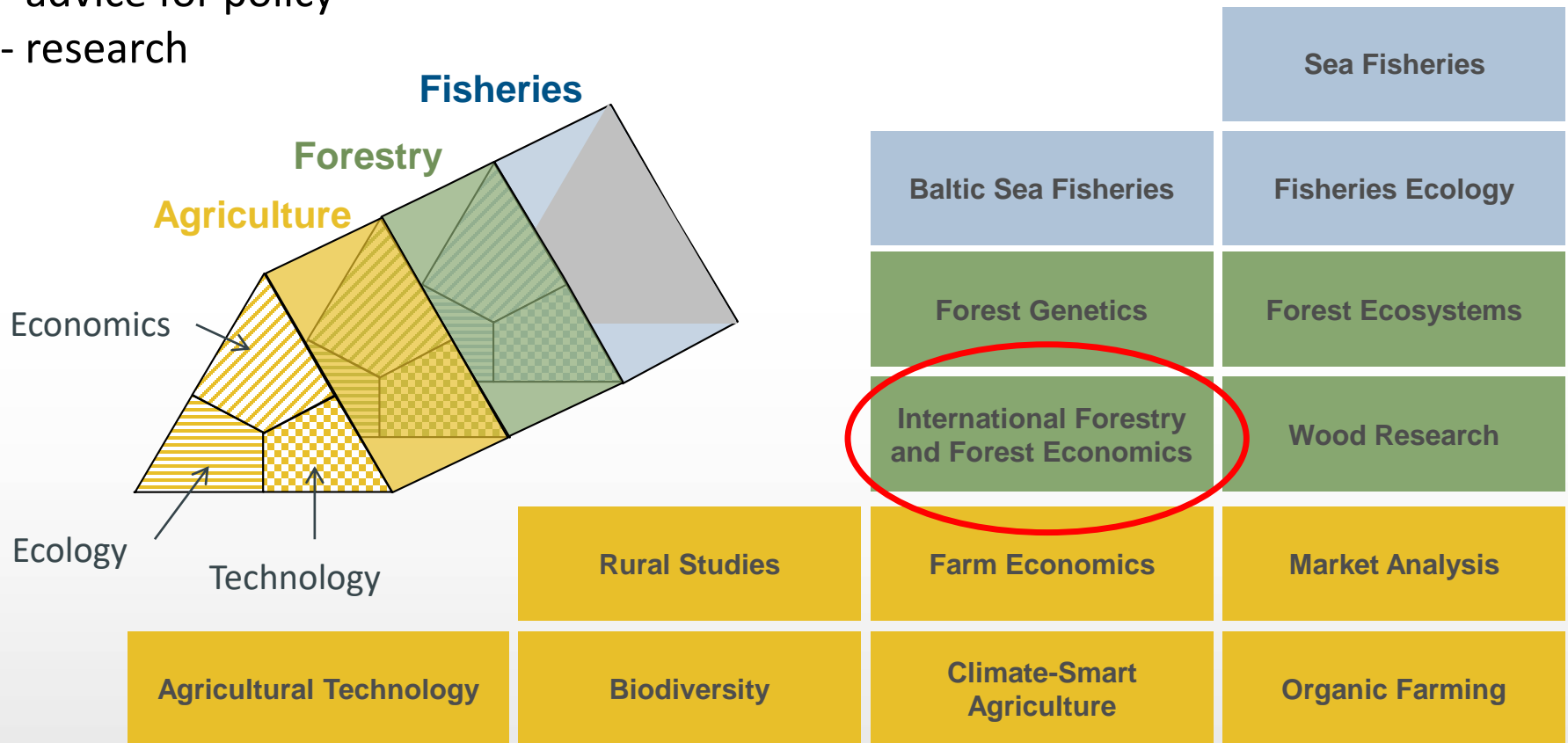


Thünen Institute - who we are

Research institute within the scope of the German Ministry of Food and Agriculture

Our mission:

- advice for policy
- research



Wood availability and use in Germany

- Commitment to multi-functionality
- Close to nature forestry approach
- ~ 95% of forests available for wood supply
- Fellings ~ 70 million cubic metre (under bark) / year
- Utilization quota: coniferous 98%, broad-leaved 67%
- Average timber stock 336 cubic metre (over bark) / ha

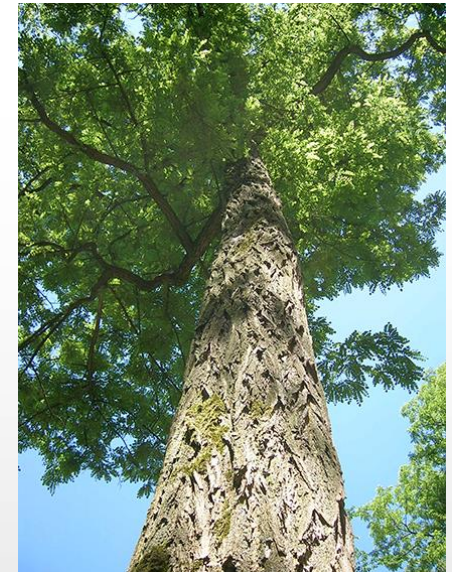
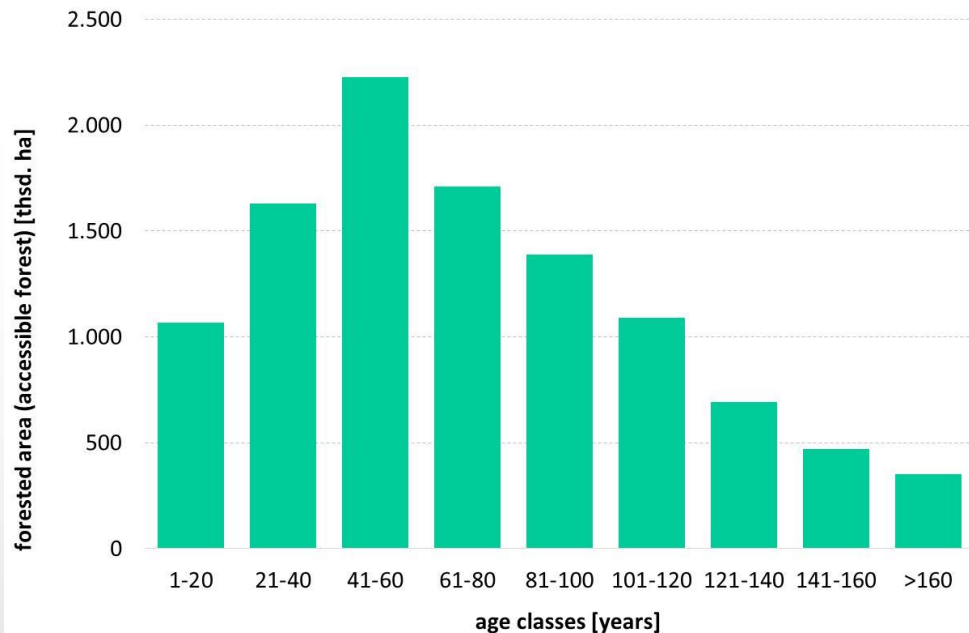


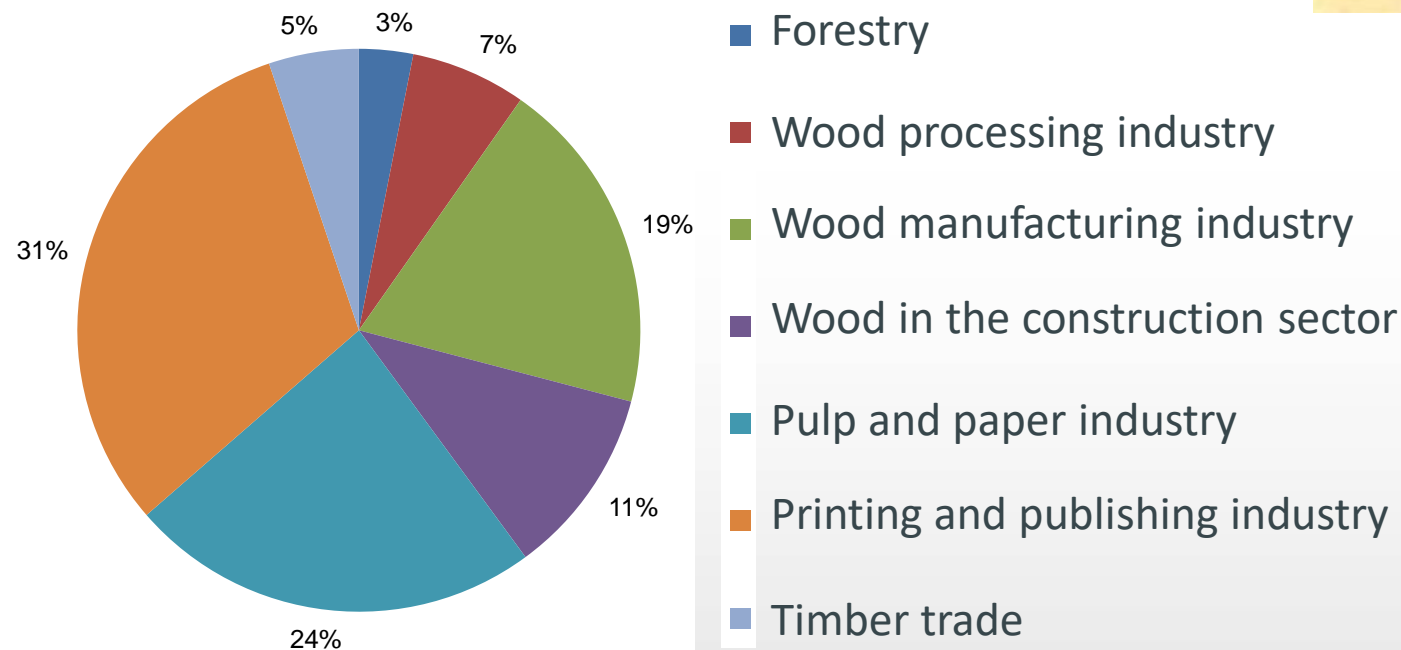
Foto: Nils Ermisch

Forest based industry in Germany

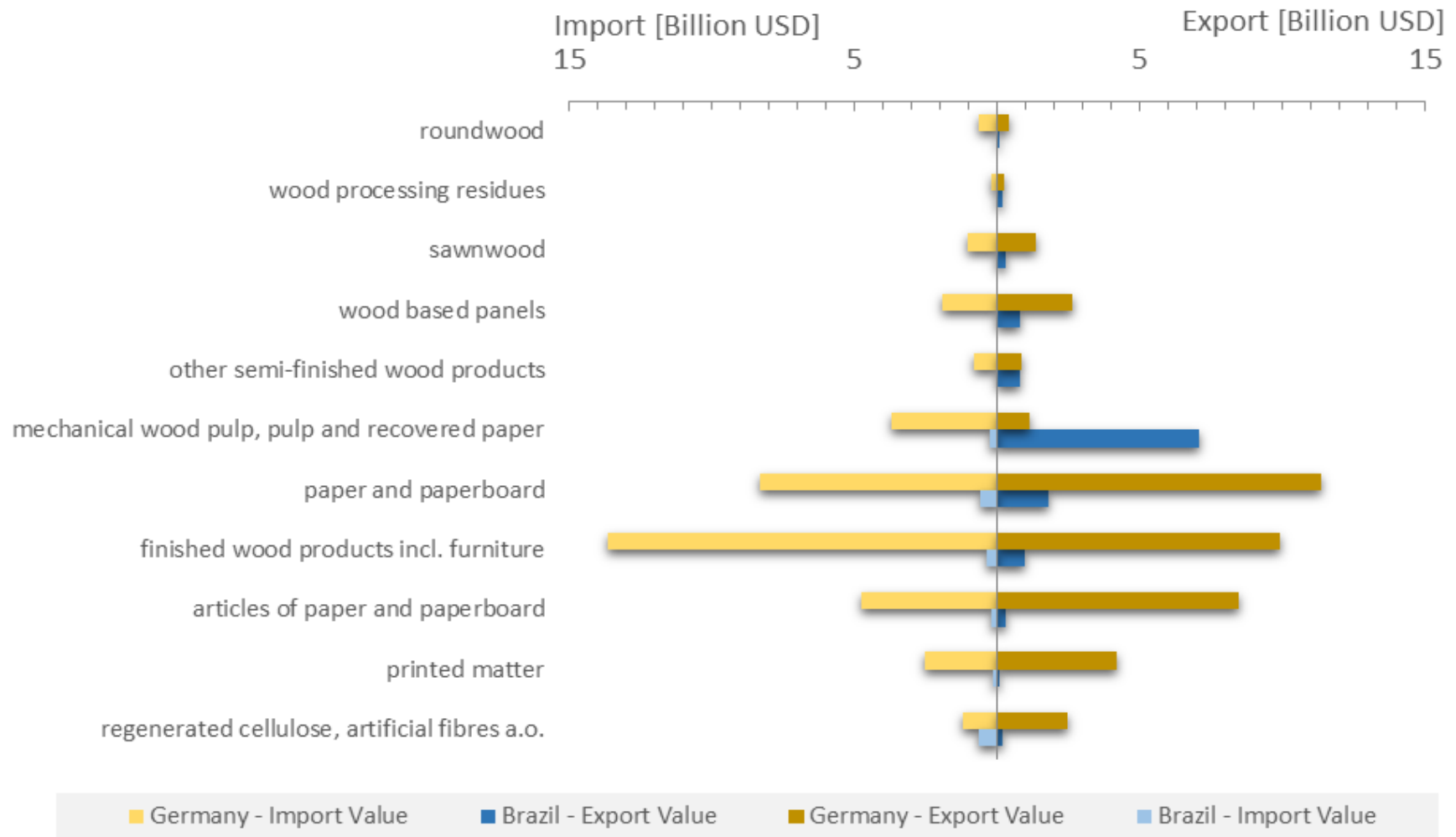
- Forest based industry traditional bio-economy
- Biorefinery still young
- ~ 1/3 of roundwood used for energetic purposes
- Value added 2013: ~ 54 billion Euro
- Turnover 2013: 177 billion Euro by sectors:



Foto: Thünen Institute



Foreign trade 2016 with wood and wood based products: comparison of BRA with DEU



Bioeconomy council of the German government: memo on wood in the bioeconomy

Maintaining and enhancing the feedstock basis

- breeding to ensure productivity and climate change adaptation
- treatment and control of pests (chemically / by management)
- extension of forest area (i.a. through short rotation coppice)
- concepts to resolve conflicts between interest groups

Utilization and control of international trade

- DNA sequencing of timber for origin identification
- enhancements of sustainability certificates control
- restoration of degraded forests (international framework, local implementation)



Foto: Lydia Rosenkranz



Foto: Nils Ermisch



Foto: Thünen Institute

Bioeconomy council of the German government: memo on wood in the bioeconomy (continued)

Improving wood use and efficiency

- enhancing material efficiency in traditional wood use (e. g. construction)
- exploring bio-chemical, chemical and thermo-chemical processes for wood
- joining economy and technology to detect market potential for bio-products
- improving cascade use of wood

Promotion of research capacities and young scientists



Foto: Thünen Institute



Foto: Jan Lüdtkke

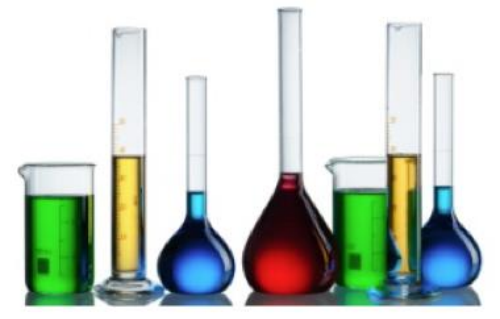


Foto: Thünen Institute

Thank you for your attention!

Contact

Prof. Dr. Matthias Dieter
Thünen Institute of International Forestry and Forest Economics
Leuschnerstrasse 91 Tel. 0049-40-73962-300
D-21031 Hamburg Fax: 0049-40-73962-399
matthias.dieter@thuenen.de
Internet: <http://www.thuenen.de/>



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