

# Regional initiatives in support of bioeconomy development – Baden-Württemberg –

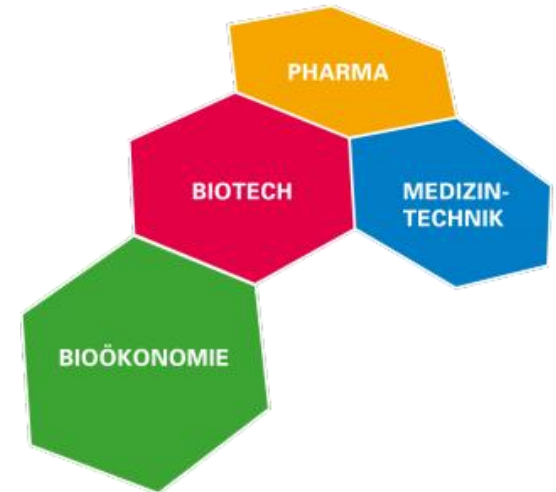


ECRN event- “Realising the bioeconomy potential in the regions”  
Brussels, 26 June 2019



# About BIOPRO

- State owned & non-profit agency
- Bioeconomy and healthcare
- Annual budget 1.7 Million € + other funding
- Supported by 5 ministries:
  - State Ministry
  - Ministry of Finance
  - Ministry of Economic Affairs, Labour and Housing
  - Ministry of Rural Affairs and Consumer Protection
  - Ministry of the Environment, Climate Protection and the Energy Sector
- Currently 23 employees + external freelancers



# Policy framework and impulses for the transition to a bioeconomy

## Baden-Württemberg

- In the South-West of Germany
- 11 Million Inhabitants (as of 2017)
- 45 % Agricultural land
- 39 % Forest area
- GDP: 511.4 Billion Euro (as of 2018)
- High-Tech location
- Many companies are global leaders
- Patchwork-like bioeconomic structure



# Policy framework and impulses for the transition to a bioeconomy

- 2013 → 2020

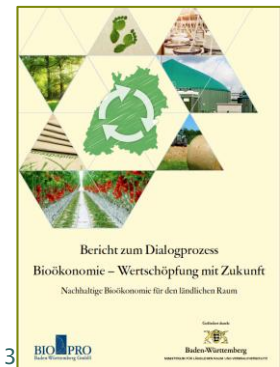
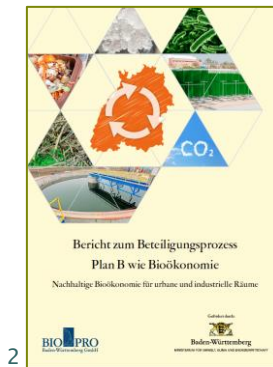
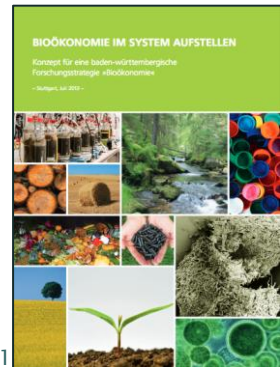
**Research Strategy** with two funding periods of the research programme "Bioeconomy Baden-Württemberg" (2014–2018 & 2018–2020)

- 2017 → 2018

**Participation process** implemented to gather recommendations for action from relevant or interested bioeconomy actors (ca. 30 meetings, >300 participants)

- 04.06.2019

**Policy Strategy** "Sustainable Bioeconomy Baden-Württemberg"



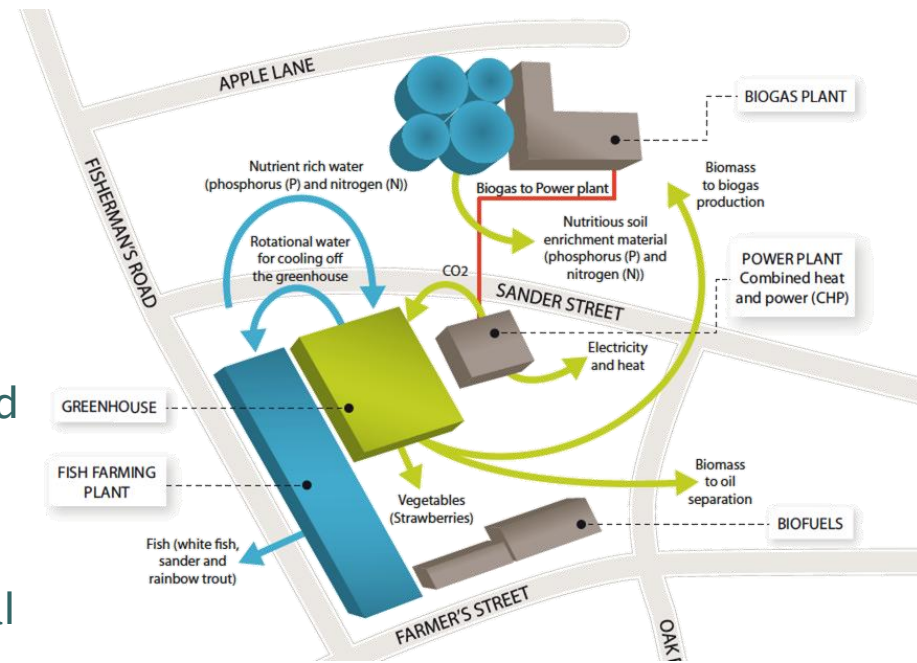
1: [https://www.baden-wuerttemberg.de/fileadmin/redaktion/dateien/PDF/Broschuere\\_Konzept-baden-wuerttembergische-Forschungsstrategie-Biooekonomie.pdf](https://www.baden-wuerttemberg.de/fileadmin/redaktion/dateien/PDF/Broschuere_Konzept-baden-wuerttembergische-Forschungsstrategie-Biooekonomie.pdf)

2 + 3: <https://www.bio-pro.de/de/projekte/beteiligungsprozess-nachhaltige-biooekonomie/>

4: [https://um.baden-wuerttemberg.de/fileadmin/redaktion/m\\_um/intern/Dateien/Dokumente/6\\_Wirtschaft/Landesstrategie\\_Nachhaltige\\_Biooekonomie.pdf](https://um.baden-wuerttemberg.de/fileadmin/redaktion/m_um/intern/Dateien/Dokumente/6_Wirtschaft/Landesstrategie_Nachhaltige_Biooekonomie.pdf)

# Identified routes for the utilization of the regional resources

- Mission oriented (technology open)
- More than substitution
- Smart management of natural and regional resources for energy and material use → Decentralisation (Bioeconomic Distributed Manufacturing Environments)
- Linking bioeconomy to circular-economy and sustainability
- Prioritisation of applications with higher economic, ecologic and social value potential
- Energetic use of biomass only after material use, if possible



Source: Luoma et al, 2011



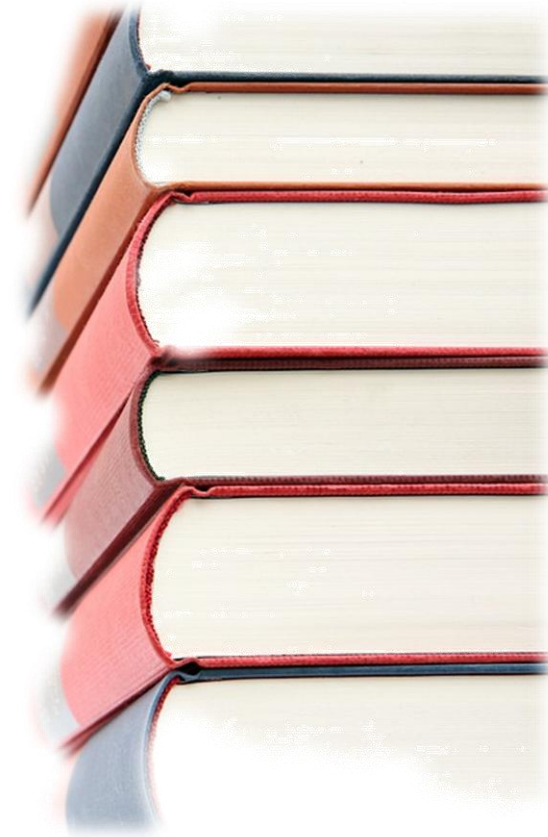
# Availability of skilled work force

## School

- Specialised courses (e.g. Biotechnology)
- Education for Sustainable Development entered education programmes

## Higher Education & Research

- Many research facilities covering Bioeconomy topics
- Master Degree Bioeconomy at the University of Hohenheim
- Foundation of the European Bioeconomy University in 2018 (Wageningen, Bologna, Eastern Finland, Hohenheim, BOKU Vienna, AgroParisTech)



# Public funding and projects supported

- Research programme Bioeconomy (2014 – 2020):  
14 Million Euro
  - Lignocellulose
  - Biogas
  - Microalgae
- Bioeconomy policy strategy (2020 – 2024):  
50 Million Euro
  - Bioeconomy in state politics and administration
  - Thematic areas: rural, urban and industrial areas
  - Cross-cutting: – cooperation between thematic areas, actors and clusters
    - qualification and advanced training programmes
    - Awareness building (information + dialogue)



# Inter-regional/cross-border cooperation

- Policy Strategy:
  - “From research and innovation location to leading region”  
Measure: “... and strengthen international cooperation...”
  - “International Bioeconomy Congress BW”
- Inter-regional/cross-border cooperation based on individual engagement





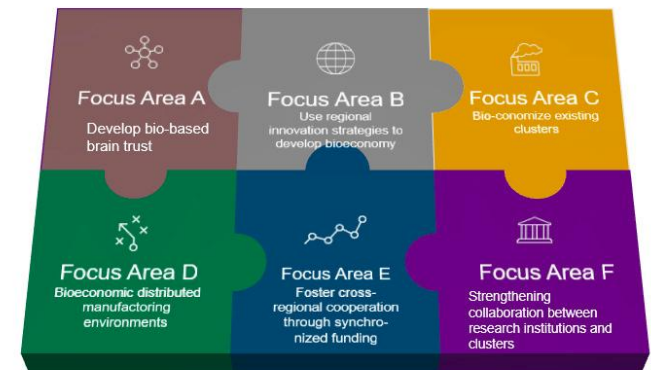
# Inter-regional/cross-border cooperation

## DanuBioValNet

- Transnational Cluster Network
- Bioeconomisation of Clusters
- Bioeconomisation of Regions



→ Joint Biobased Cluster Policy Strategy





# Challenges and barriers

- (Public) Awareness
- Investments: From Research to market
- Industry: Lack of critical mass of actors
- Supporting framework conditions: Missing market incentives
- Data: Lack of statistical data (NACE)
- Connecting rural and urban areas
- Digital tools



# Thank you for your attention!



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