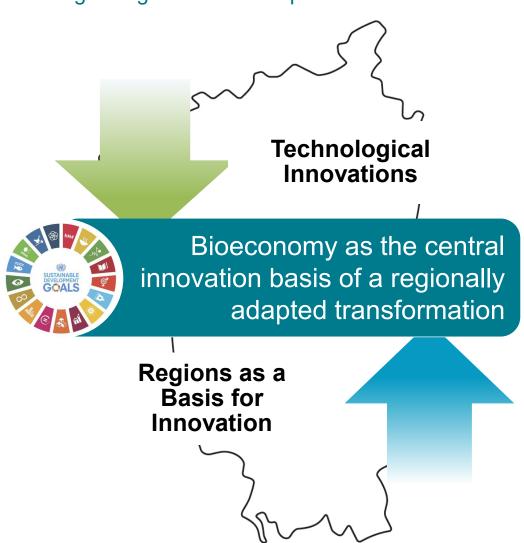


## Regionalisation of Bioeconomy

From global goals to local implementation



## **Regional Profiles**

Natural resources



Knowledge and innovation ecosystem





Markets

(regional)







Legal framework



Trade (regional / global)

## Stakeholder / Akteure



Economy Sci



Science



Media



Public



Region

# Coal phase-out in the Rhenish Region

**Region in Transition** 



"Fossil Economy"



Replacing fossil resources

Building on strengths

Innovative food systems

Developing key technologies

Circular Economy

New products, processes and services

## **Competitiveness and Climate Protection**



## Bioeconomy Science Center (since 2010)

Integrating regional science

- **Vision**: Research, technology and cooperation for a sustainable and integrated bioeconomy
- Approach: Systemic bioeconomy research for biomass, bio-based products and processes, (socio)economy and transformation
- BioSC in figures
  - Research network est.. 2010
  - > 70 Institutes (core groups) from 4 institutions
  - NRW BioSC Strategy project: since 2013, funded by NRW; 10 years; 5.8 Mio. €/a

Ministerium für Kultur und Wissenschaft des Landes Nordrhein-Westfalen















# Regional Situation for the Bioeconomy in 2018

Basic and applied research

Technologies & Competencies

Ik Heinsberg

Rhein-Kreis

Neuss

Rhein-Kreis

Rhein-Sieg Kreis

Rhein-Sieg Kreis

Racin-Hochschulen

Max-Planck-Institute

Helmholz-Kooperationen

Fraunhofer-Institute

Lik Düren

Lik Düren

Racin-Hochschulen

Max-Planck-Institute

Helmholz-Gemeinschaft

Systems research

Orientation knowledge



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**Utilise opportunities! Solve problems!** 



Focus on the region!

Kets





# BioökonomieREVIER: Shaping Regional Transition

## Structural change goals

- 1. Creating added value and jobs
- 2. Qualify skilled workers and trainees
- 3. Structural changes in the regional economic system

### **Bioeconomy goals**

- Establishing a regional bioeconomy
- 2. Shaping transformation in a participatory way
- 3. Cooperation with other regions



Regionalisation Bioeconomy



## Transformation Cluster BioökonomieREVIER

From Vision to Practice: Managing Regional Bioeconomic Transition



Economy & innovation

Training





Structure development

Coordination & strategy

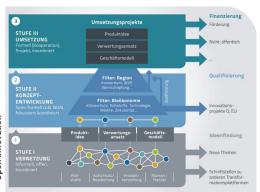


Transformatior management











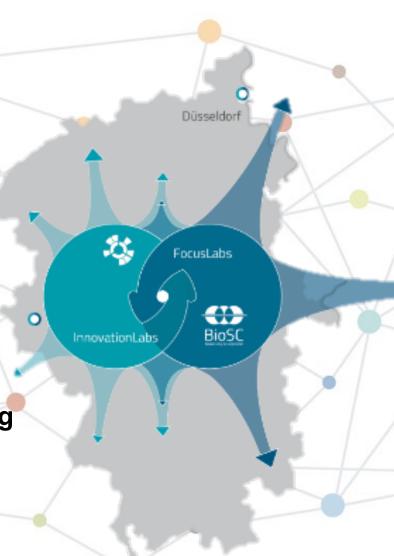


## From Invention to Innovation

Strenghtening regional innovation



- Implementation
- Transfer & Application
- Innovation
- Regionalisation
- Participation & Dialogue
- utilises the region as a living lab to shape the regional transformation with bioeconomy





- Research
- Academ. Education
- Technology Development
- Inventions
- utilises the region as a living lab for bioeconomy science



# Engaging communities for sustainable regional development A participatory journey into the bioeconomy

**Objective**: Facilitate a dialogue-oriented process to involve local citizens and civil society in the sustainable transformation of the Rhenish mining region towards a bioeconomy.

- 1. What does a liveable Rhenish region look like to you—one where you would like to live and work in the future?
- 2. What roles do agriculture, nature conservation, climate protection, and landscape preservation play in this context?
- 3. How can economic, ecological, and social interests be harmonised?
- 4. What contributions can the bioeconomy make towards this goal?



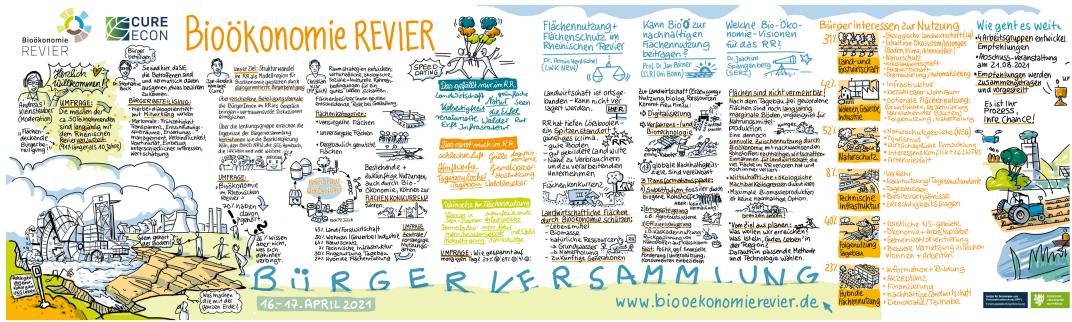






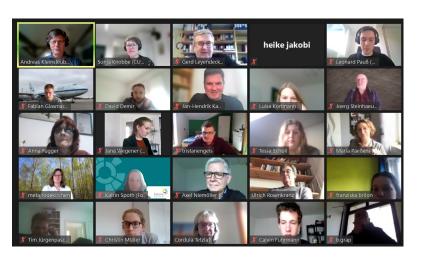
# Engaging communities for sustainable regional development

A participatory journey into the bioeconomy









# Innovation-based Regional Transformation

Living Lab: Agri-Food-Energy Park









### An Educational Journey

Bioeconomy Discovery Trail

### **Food Campus Elsdorf** Biotech meets Food



#### **Demo Sites**



### **Innovation Center Bürgewald\***

### **Agri-Food-Energy Park**





### Renewables in the Mine





















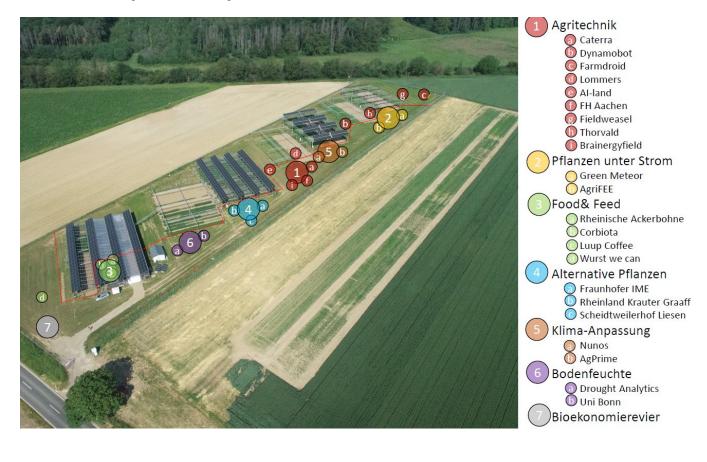




\* Auswahl, offene Plattform

# Collaborative Pathways in Agri-Food-Energy Innovation

**Bioeconomy Field Day** 











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App-Store



BioökonomieREVIER



Google Play Store