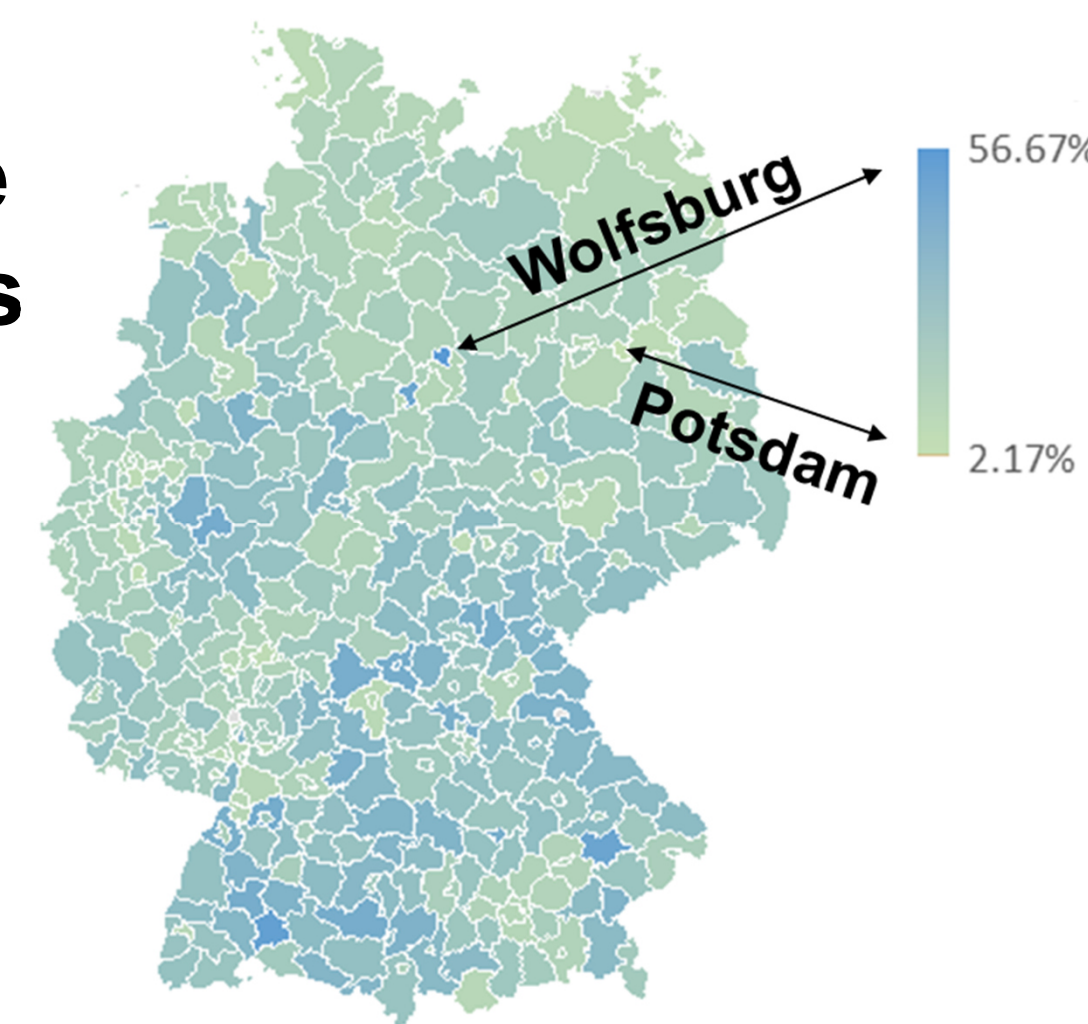


What We Do & Why It Matters

We combine a synthetic population with a **multi-regional input-output (MRIO) model** to assess the impacts of decarbonisation in Germany at the regional scale (NUTS 3 level). Standardised scenario analyses ensure the systematic transfer of scientific insights into municipal practice through a participatory and transdisciplinary approach.

Diverse Economic Structure across the 400 German districts

Example: Share of manufacturing industry (employees)



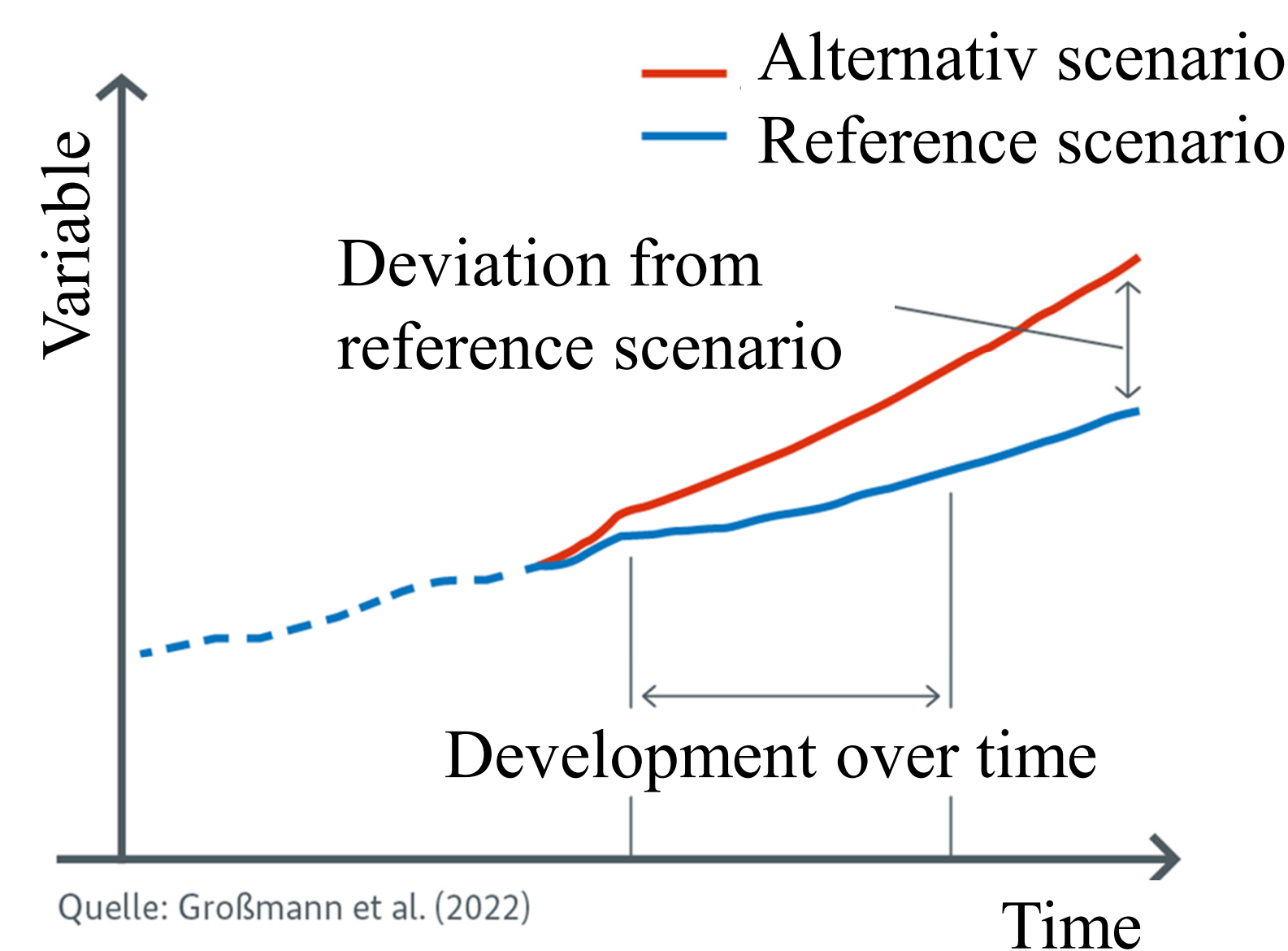
RIMES – A New Regional MRIO-Model

- Enables district-level analysis of economic structures and interdependencies across Germany.
- Maps interregional trade and sectoral connections using a unique gravity trade model.
- Supports future-oriented scenario analysis by linking with dynamic GWS-models.
- Assesses the regional impacts of structural change, such as decarbonisation policies, e.g. heat transition.

Scenario Analysis

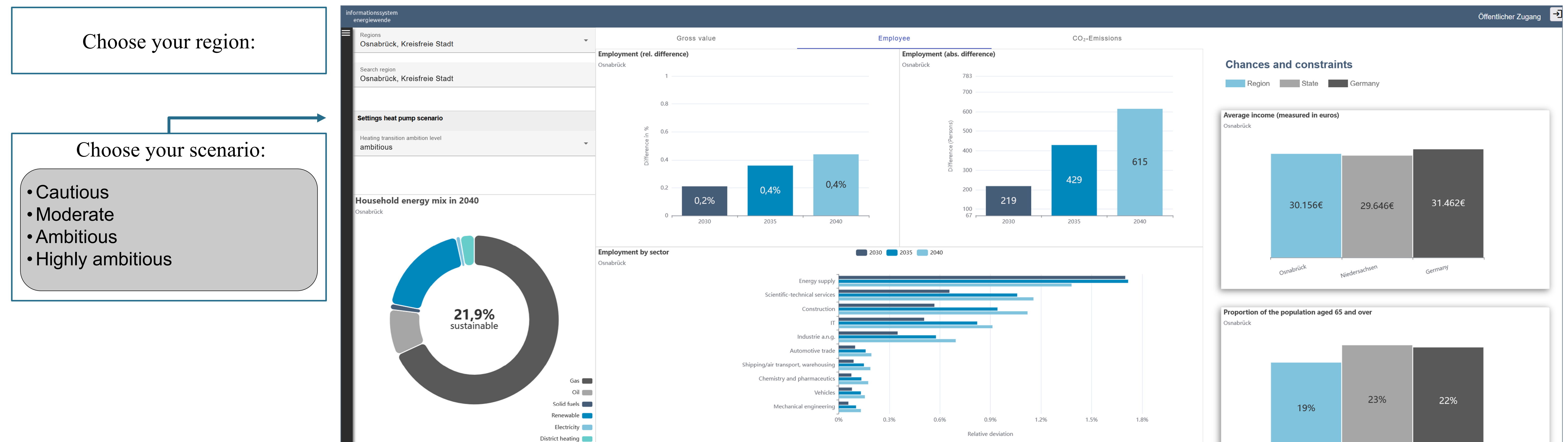
Which assumptions show which effect?

- Reference and alternative scenario provide insight:



- Alternative scenarios for the heat transition, clean energy transition and decarbonisation.
- Projections of gross value, employment and CO₂-emissions for 2030, 2040 and 2050.

Scenario Dashboard: Heat Transition as Example



What do You Think?

- How can we improve the visualisation of the regional story shown in the dashboard?
- Which regional structural indicators do you consider relevant in the context of regional decarbonisation, energy transition and heat transition?
- Are there general indicators that are relevant in all scenarios, or should we focus on scenario-specific indicators?
- What is missing to empower local decision-making?

Let's check out our Dashboard:

<https://info-ew.de/demo/>



Feedback welcome – mail to:

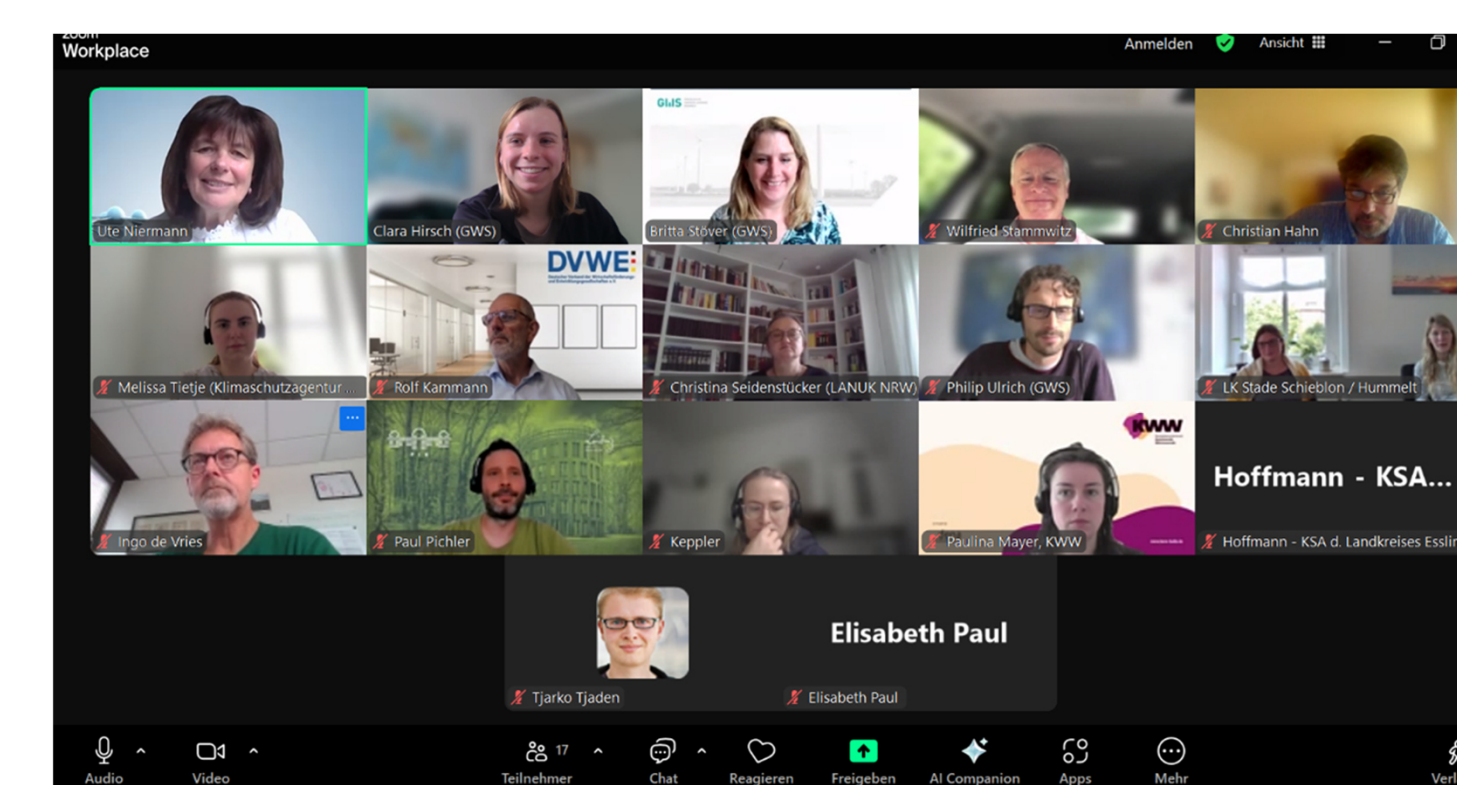
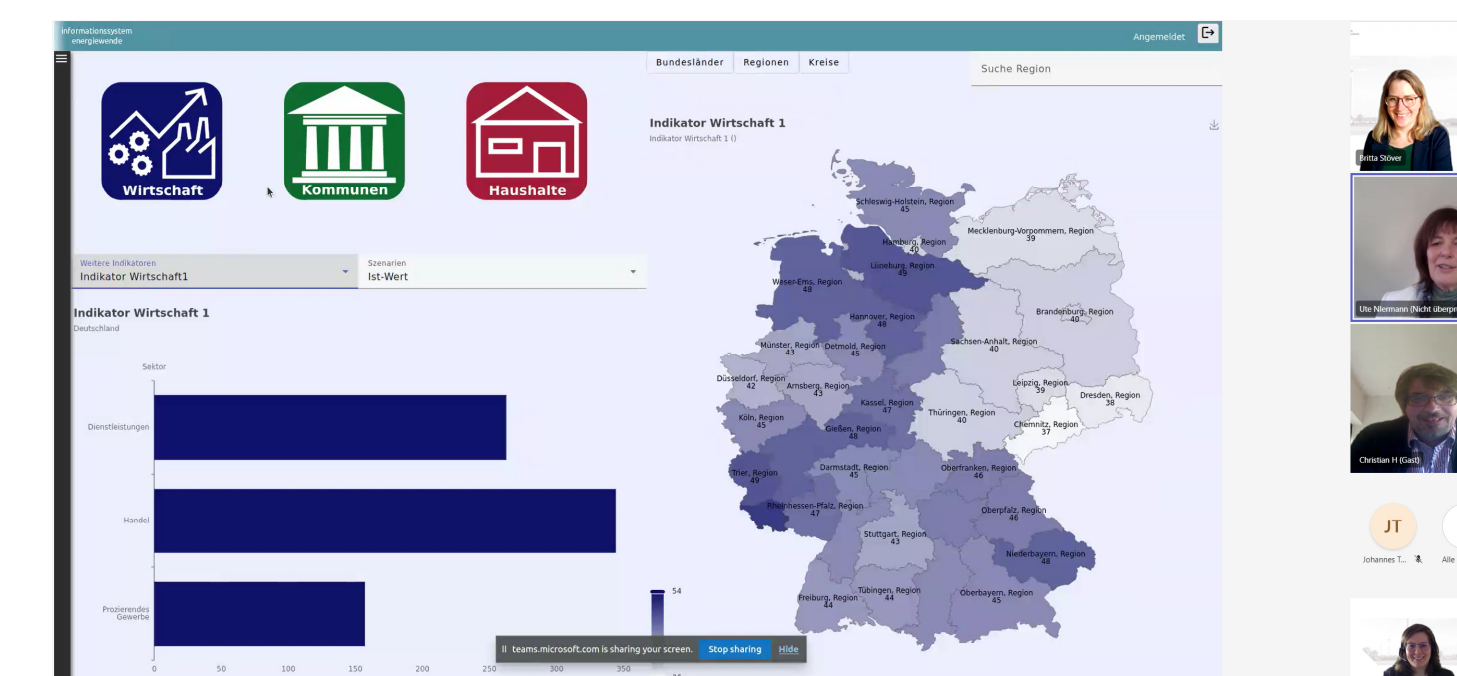
hembach-stunden@gws-os.com



Or connect with me on LinkedIn:

Stakeholder Process

- Regional stakeholders from different backgrounds throughout Germany.
- Regular discussions about scenarios and dashboard design.
- Online and in person workshops throughout the project.



Project partners:

GLIS

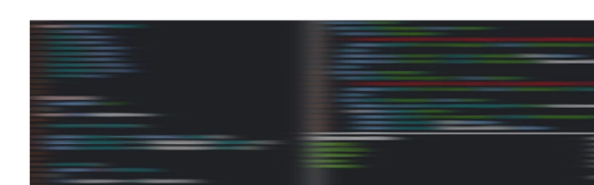
Dr. Katharina Hembach-Stunden
Dr. Britta Stöver (Project Lead)
Philip Ulrich

PIK

Jakob Napiontek
Dr. Peter Paul Pichler
Prof. Dr. Helga Weisz

EWAS

Ute Niermann



Christian Hahn (IT)