

SDGVisionPath @Klimatag

Exploring and shaping paths to a sustainable future.

2.–4. April 2024

TU Wien

Contact:
mathias.kirchner@boku.ac.at
kontakt@visionpath.at

Artwork: Christina Ruschitzka, L'Effet Papillon: Mechanische Landschaften, 2010

Objectives, methods & research interest

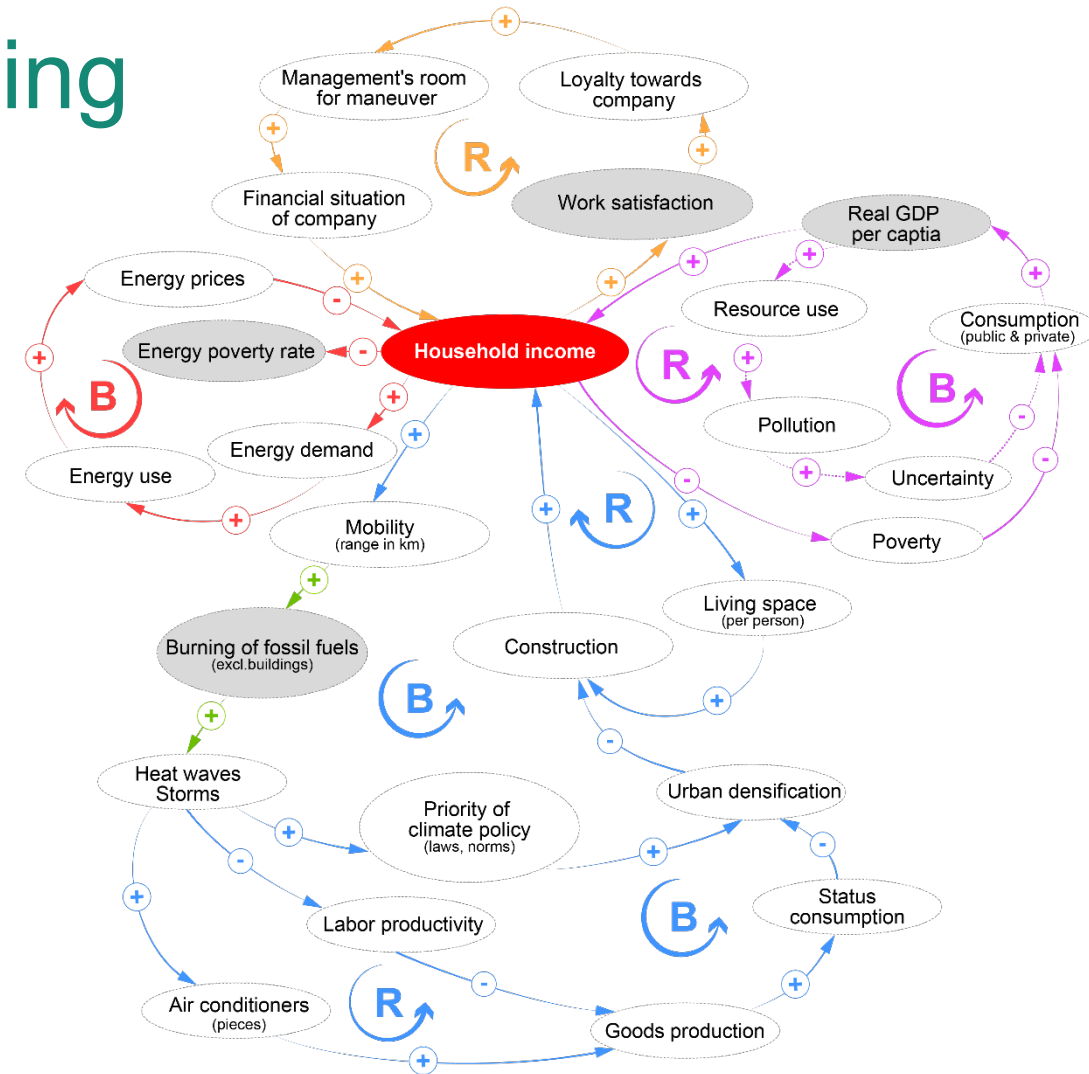
- **Objective:** apply a stakeholder driven holistic systems thinking approach for Austria, considering SDG13 [climate action], SDG8 [economic growth and decent work] & SDG1/10 [poverty/inequality]
- **Methods:** combine Communities of Practice (CoP), the quantitative system dynamics simulation model iSDG & the qualitative Inequality and Poverty Assessment Model (IPAM)
- **Key research interest:** identify commonalities and differences between stakeholder knowledge and model insights

Detailed research objectives / proposed outcomes

1. Provide a **common system understanding and problem identification** in reaching SDG1/10, SDG8 and SDG13 in an Austrian context among experts and stakeholders.
2. Develop a **future vision** with stakeholders - What life do we want in 2050?
3. Develop **transition pathways** needed to achieve the future vision
4. Identification of **policy recommendations** to achieve the future vision

(1) Common system understanding

- Elicited “**mental models**” of stakeholders in a workshop (and a follow-up webinar)
- **5 Causal Loop Diagrams - CLDs** (Energy poverty, Economic Growth, Job Satisfaction, 2x GHG emissions)
- Research team build **one overarching CLD**



https://sdg.visionpath.at/wp-content/uploads/01_CLD_Gesamtbild.pdf

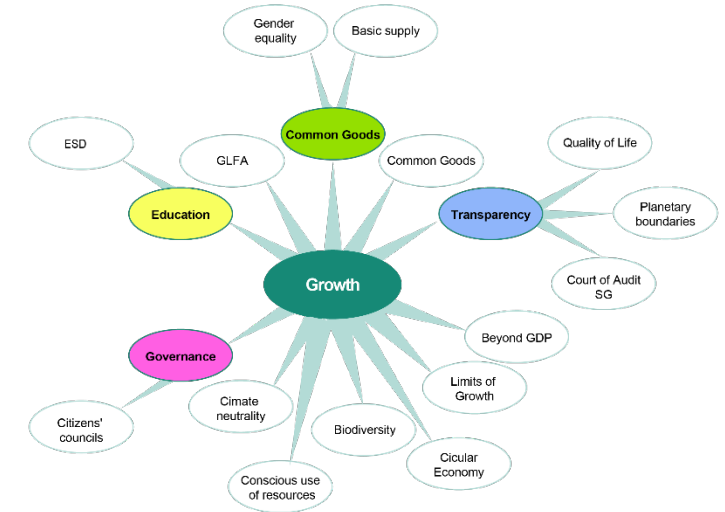
(1) Main take-aways of stakeholders' mental models

- Synergies between energy poverty (SDG1/10), job satisfaction (SDG8) & real GDP/capita (SDG8)...
- ... but trade-offs between these SDGs and SDG 13 (climate action)
- Further: some indication of limits to growth



(2) Future Vision

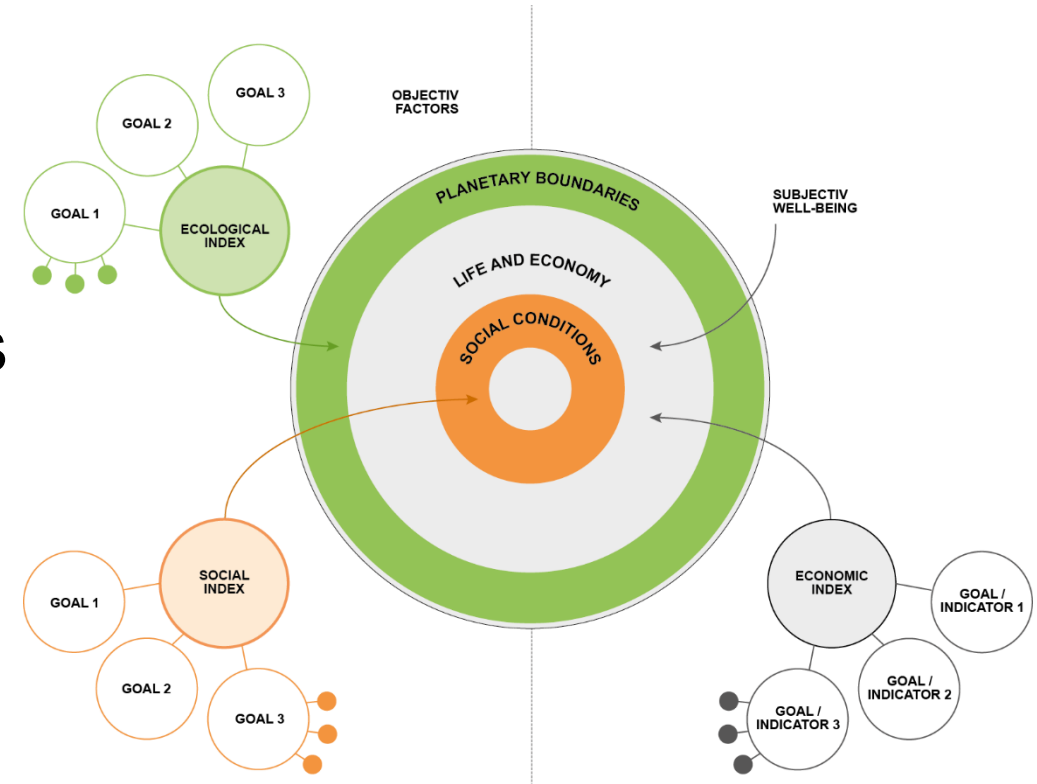
- **Art based** workshop
 - speculative setting
 - gamification - “the thing from the future”
 - collage - “future panel”



- A future vision for a **sustainable future** ...
 - fulfills and considers the interactions of SDGs 1/10, 8 & 13
 - provides an adequate “**work life balance**” for everyone
 - ensures “**gender equality**”
 - preserves “**biodiversity**”
 - conserves “**resources via a circular economy**”
 - ensures that **institutional measures** are provided to support the transition, e.g. *education, transparency, governance*

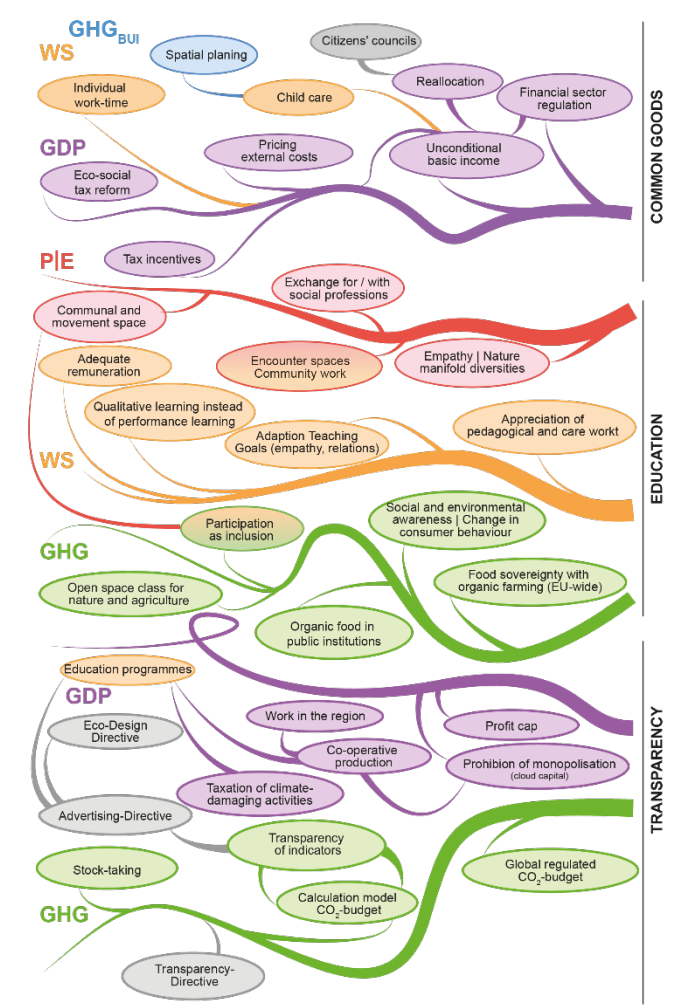
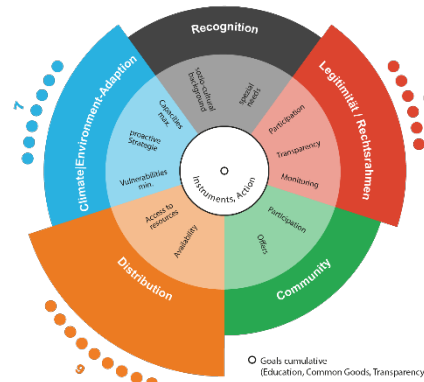
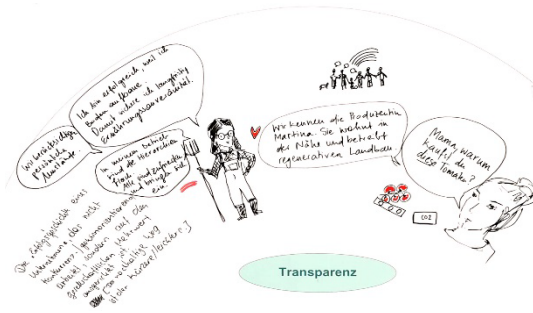
(2) Future Vision

- **12 indicators**
 - Derived from the future vision set by the stakeholders
 - Checked & quantified by stakeholders (online survey)
- Next step: **summarise to three indicators** in a “doughnut” kind of approach.



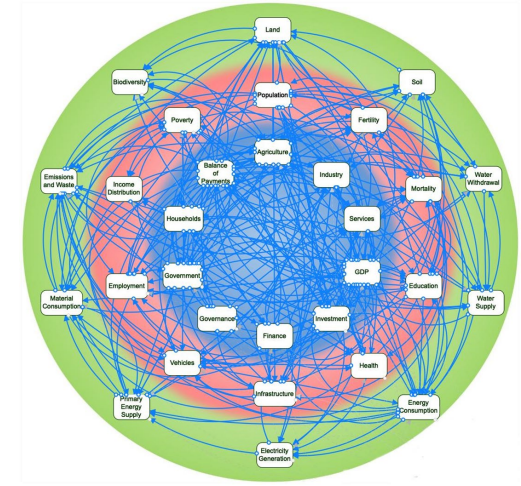
(3) Transition pathways – qualitative

- **Creating stories:** focus on problems and obstacles
- **Inverting stories:** for positive imaginaries
- **Assessment with IPAM:** positive potentials and conflicts
- **Timeline 2050:** measures / instruments
- **Next step:** Stories finalized by project team



(4) Transition pathways – quantitative

- The system-dynamic **iSDG-AT** model will be applied
 - A quantitative model to simulate policy impacts on SDG interaction
- Current status:
 - A baseline (WEM – with existing measures) scenario has been finalized
 - A SDGVisionPath scenario is being implemented
 - Takes into account vision (indicator values) and qualitative transition pathways



iSDG
für Österreich

MILLENNIUM
INSTITUTE

Further steps

- Finalize qualitative storylines
- Summarize indicators
- Finalize quantitative simulations
- Further IPAM interviews for identifying conflicts and positive potential
- Final and 4th workshop on policy recommendations
 - Highlighting commonalities and differences between stakeholder knowledge and models
 - Finding common ground & deriving policy recommendations

Challenges

- (continued) stakeholder participation - uncertainty & risk!
- finding the ideal amount of „freedom“ for stakeholders
- time constraints (too much and too little)

Thank you!

Contact:

mathias.kirchner@boku.ac.at

kontakt@visionpath.at