

# KAN session on "Transformations"

## **Transformative indicators and the transformation of work**

1. Transformations-what do we mean?
2. The root of the idea of the "Great Transformation": Polany and beyond
3. Discussion
4. Aspects of the Transformation
  - Transformative Science and Transformative Indicators
  - Transformations of work
5. Group Sessions

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# Transformations: What do we even mean?

Hans Haake

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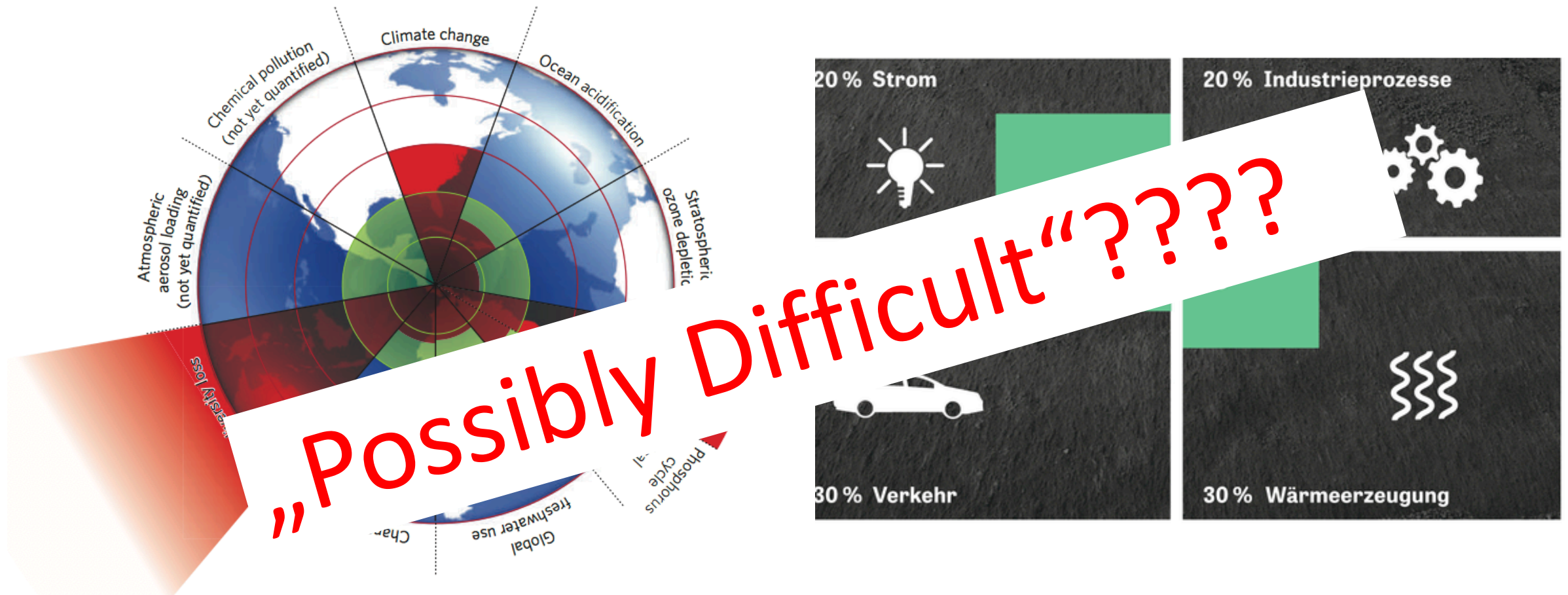
*„**profound and possibly difficult** transformations to our prevailing social structures, systems and relationships with the environment, from the local to global scale“*

*„**know too little** about how to turn these insights into transformative processes that result in more robust and equitable solutions to sustainability and societal challenges. Both new scientific knowledge and other types of practice-based knowledge are needed to make progress“*

*“transformation” as a **profound and complex** socio-ecological process with both short- and long-term implications for the **sustainability** of natural and social systems“*

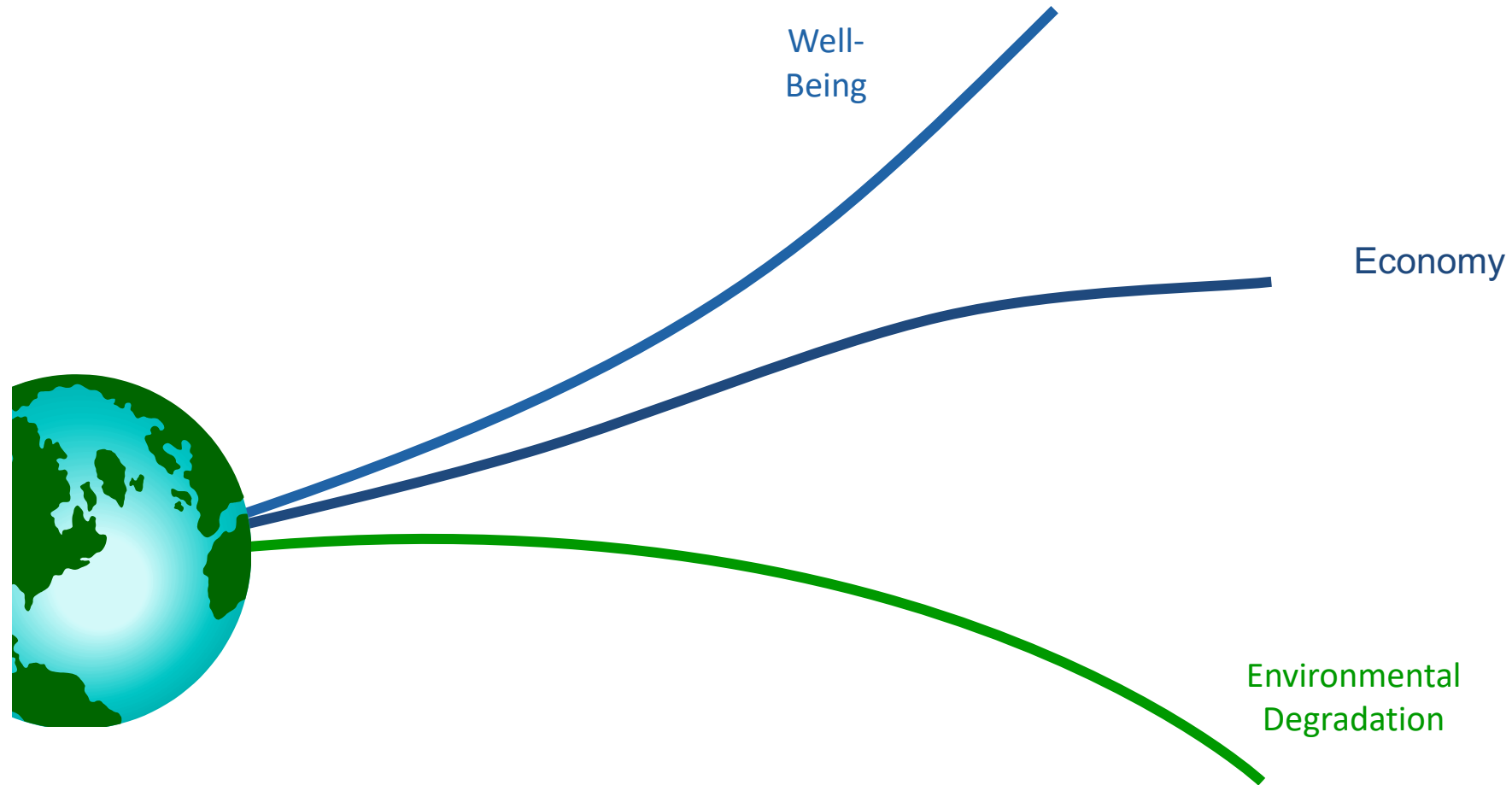
(<http://www.futureearth.org/future-earth-transformations>)

# (ecological) Need for Transformation



Quelle: Rockström 2009, ZEIT

# Need for Transformation



# Transformations

Revolution

Transformation

Incremental Change

BAU

# What Transformation?

Transforming  
Sectors

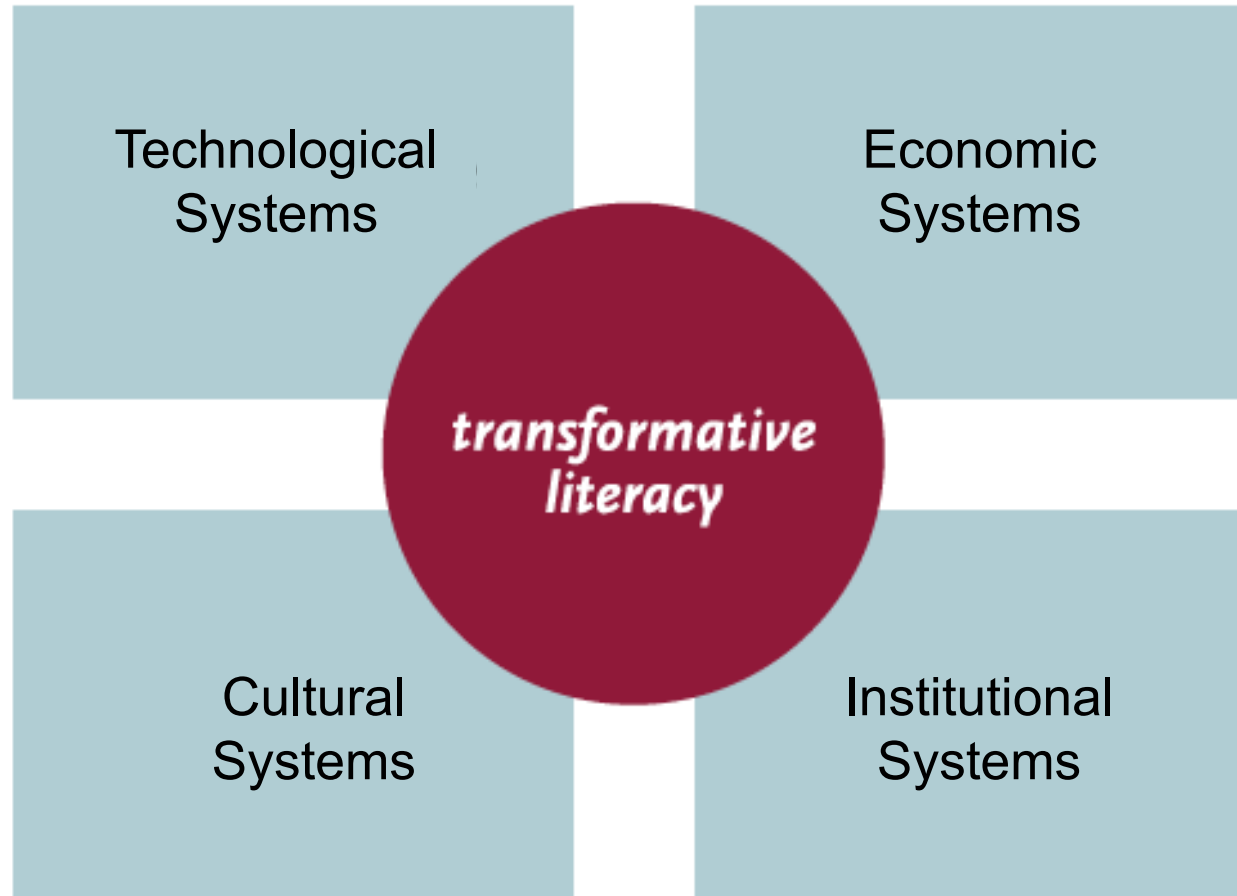


Transforming our  
economic system,  
our cultural norms,  
narratives,  
paradigms....

- **Sustainability**  
Transformation or even  
Social-Ecological  
Transformation
- **Intendend**  
Transformation (not one  
to describe)
- **Systematic**  
Transformation
- **Science-driven (?)**  
Transformation







What role does science need to play in a Transformation  
as outlined here?

Katharina Schleicher

# Transformative Science & Transformative Indicators

Experiences from a Transformative  
Research Project

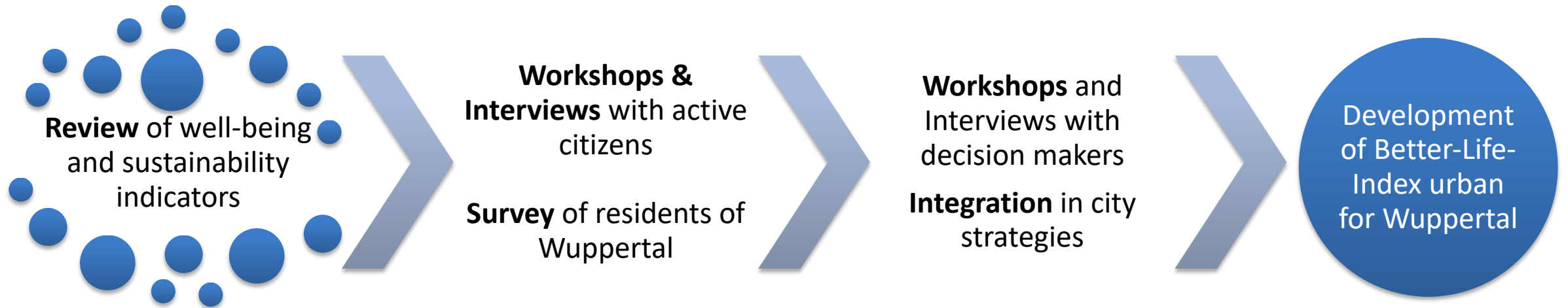
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1. Transformative science
2. Transformative indicators
  - a) Why new indicators?
  - b) How were they developed?
  - c) Why are they transformative?

- **initiates and catalyses** societal transformation processes
- makes explicitly **normative demands**
- aims to generate different forms of knowledge: **systems** knowledge, **target** knowledge and **transformation knowledge**
- related to mode-3-science, third-order learning

(Schneidewind et al. 2016; Schneidewind/Singer-Brodowski 2014, Gibbons 1994, Sterling 2010)

# TRANSFORMATIVE DEVELOPMENT OF INDICATORS



# BETTER-LIFE INDEX WUPPERTAL, 1ST VERSION



BLI-urban for Wuppertal is transformative because,

- ... the researchers were actively involved in the implementation and use of the indicators in the city
- ... the sustainability claims were made explicit

The BLI-urban was already used

- For (self-)evaluation of projects
- For mapping and categorisation
- In public participation (citizen budgeting process)
- In a city strategy





Transformative  
Science

Transformative  
Indicators

**Thank you  
for your attention**

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