

# Von den Grenzen des Wachstums zu kollaborativem Handeln: Was tun?

Forum Ö

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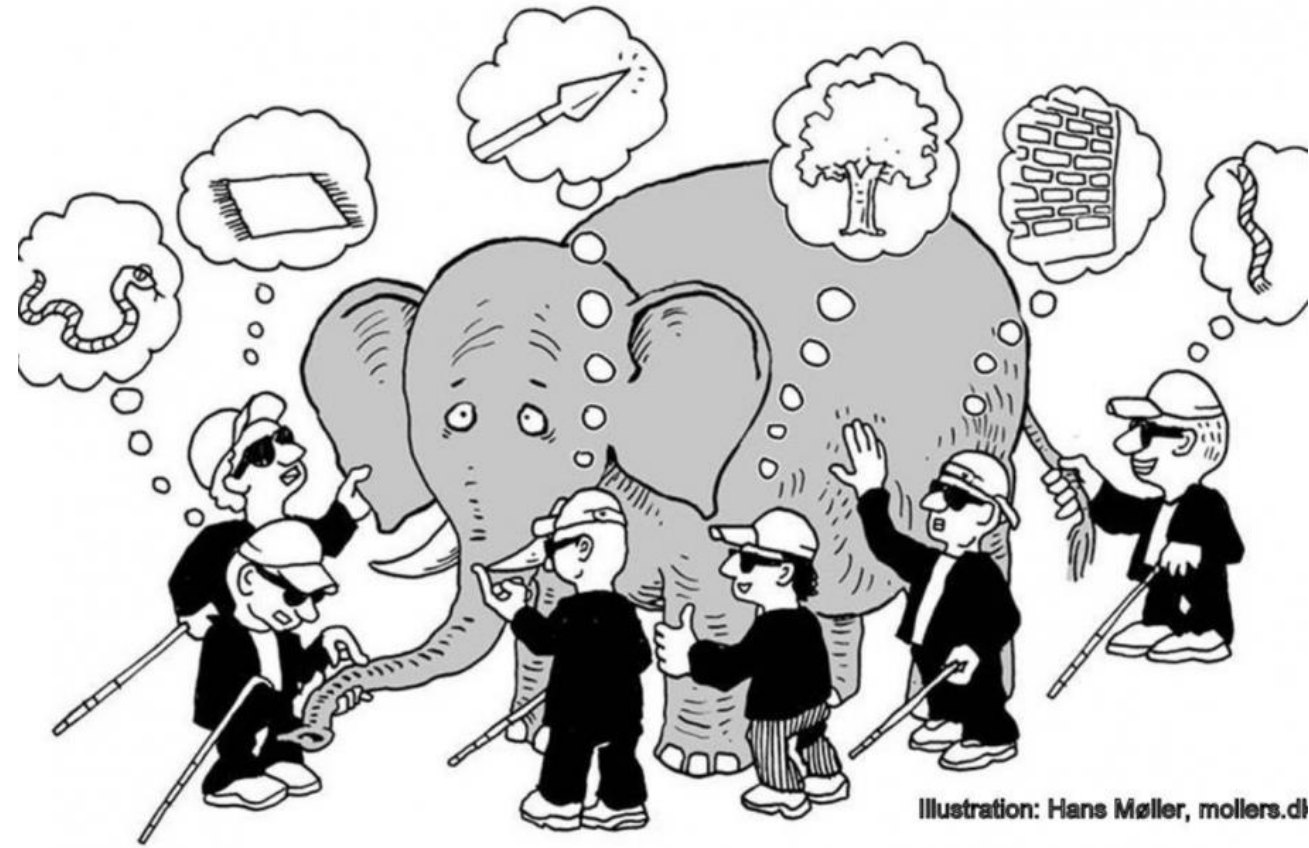
Till Kellerhoff, Program Director

26.10.2022



# Der Club of Rome

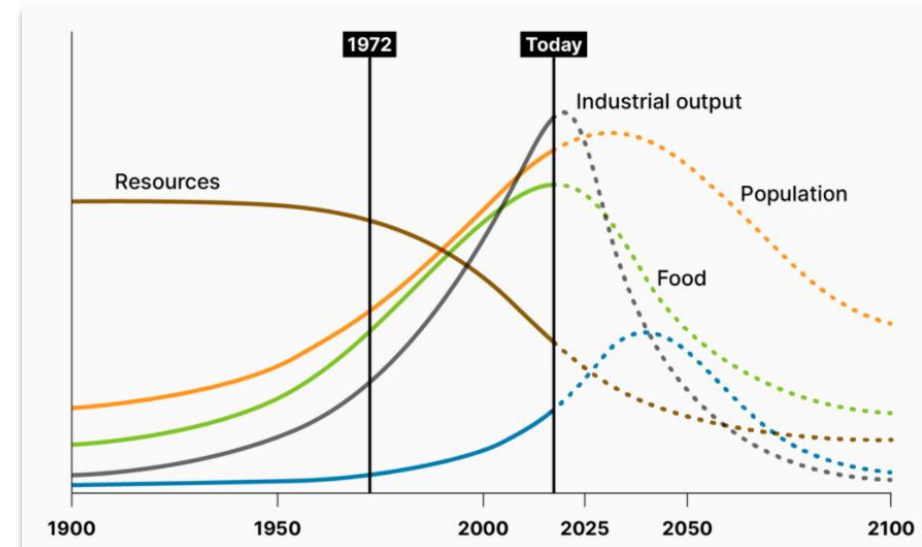
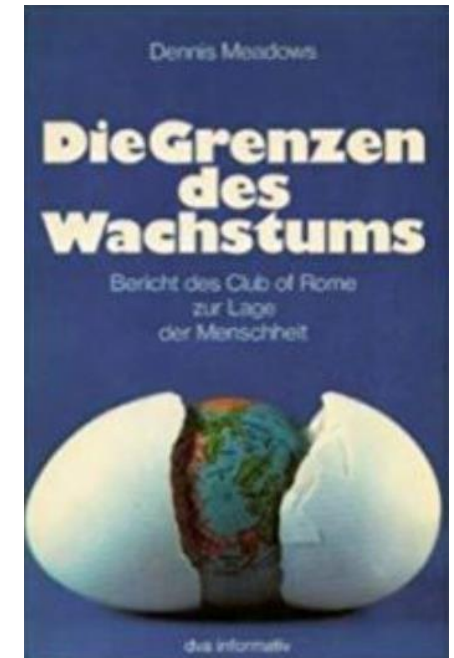
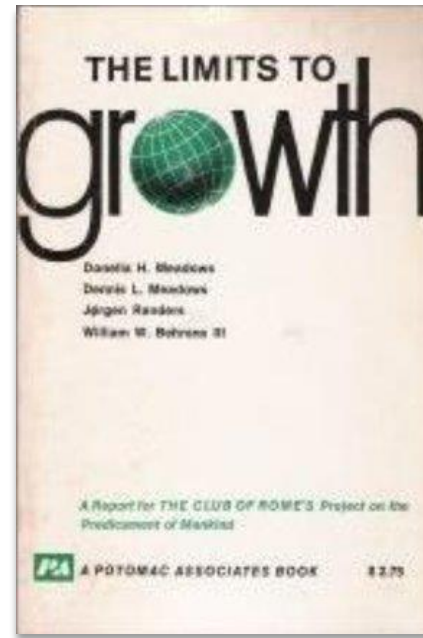
- Gegründet: 1968
- 1972: Die Grenzen des Wachstums
- 130 Mitglieder
- Über 45 Berichte an den Club of Rome
- Holistisch, global, interdisziplinär
- Fünf Impact Hubs: Climate-Planetary Emergency, Reframing Economics; Rethinking Finance; Emerging New Civilisations; and Youth Leadership and Intergenerational Dialogues.



# Die Grenzen des Wachstums

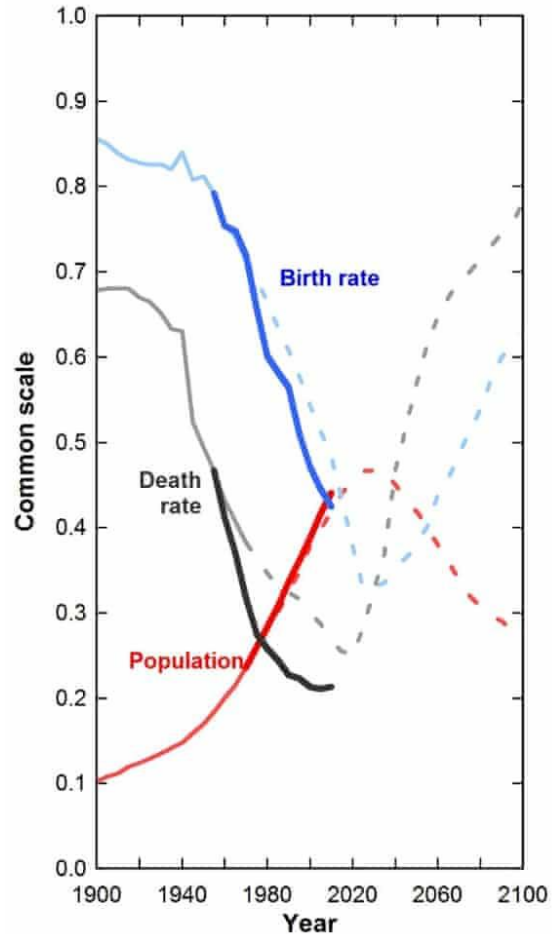
„Wenn die gegenwärtige Zunahme der Weltbevölkerung, der Industrialisierung, der Umweltverschmutzung, der Nahrungsmittelproduktion und der Ausbeutung von natürlichen Rohstoffen unverändert anhält, werden die absoluten Wachstumsgrenzen auf der Erde im Laufe der nächsten hundert Jahre erreicht.“

[Die Grenzen des Wachstums](#), 1972

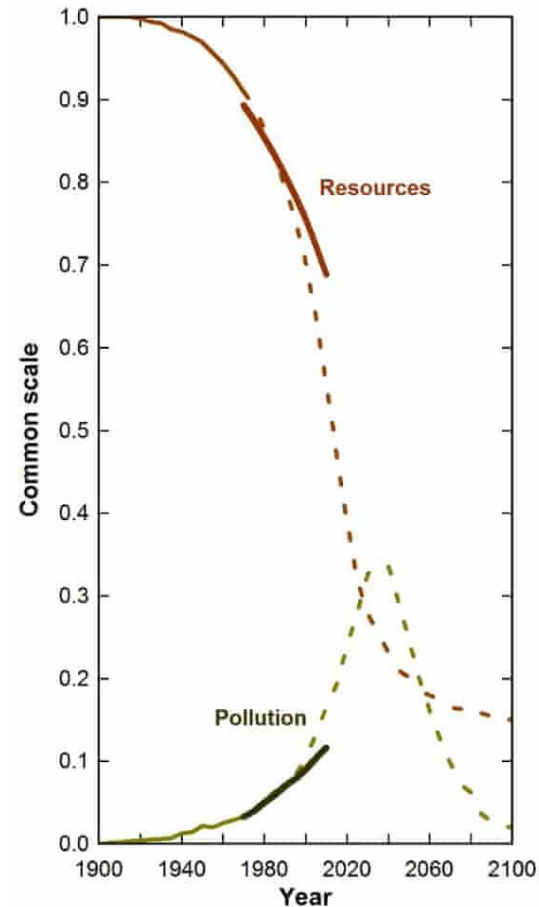


# Wie akkurat waren *Die Grenzen des Wachstums*?

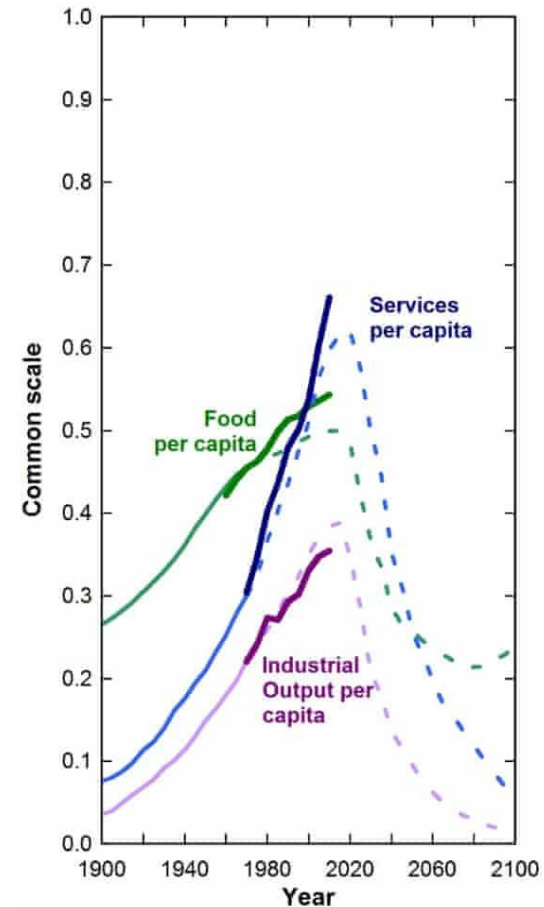
Population



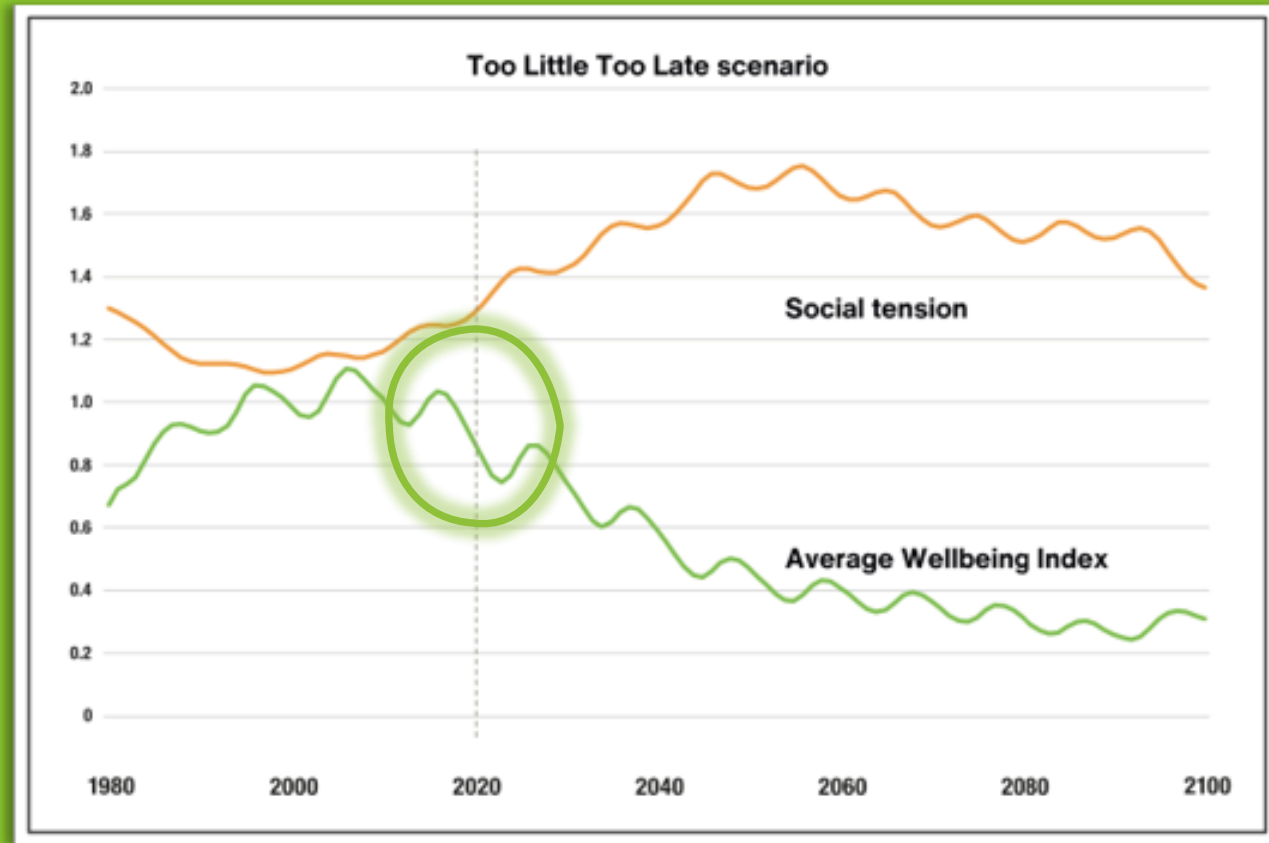
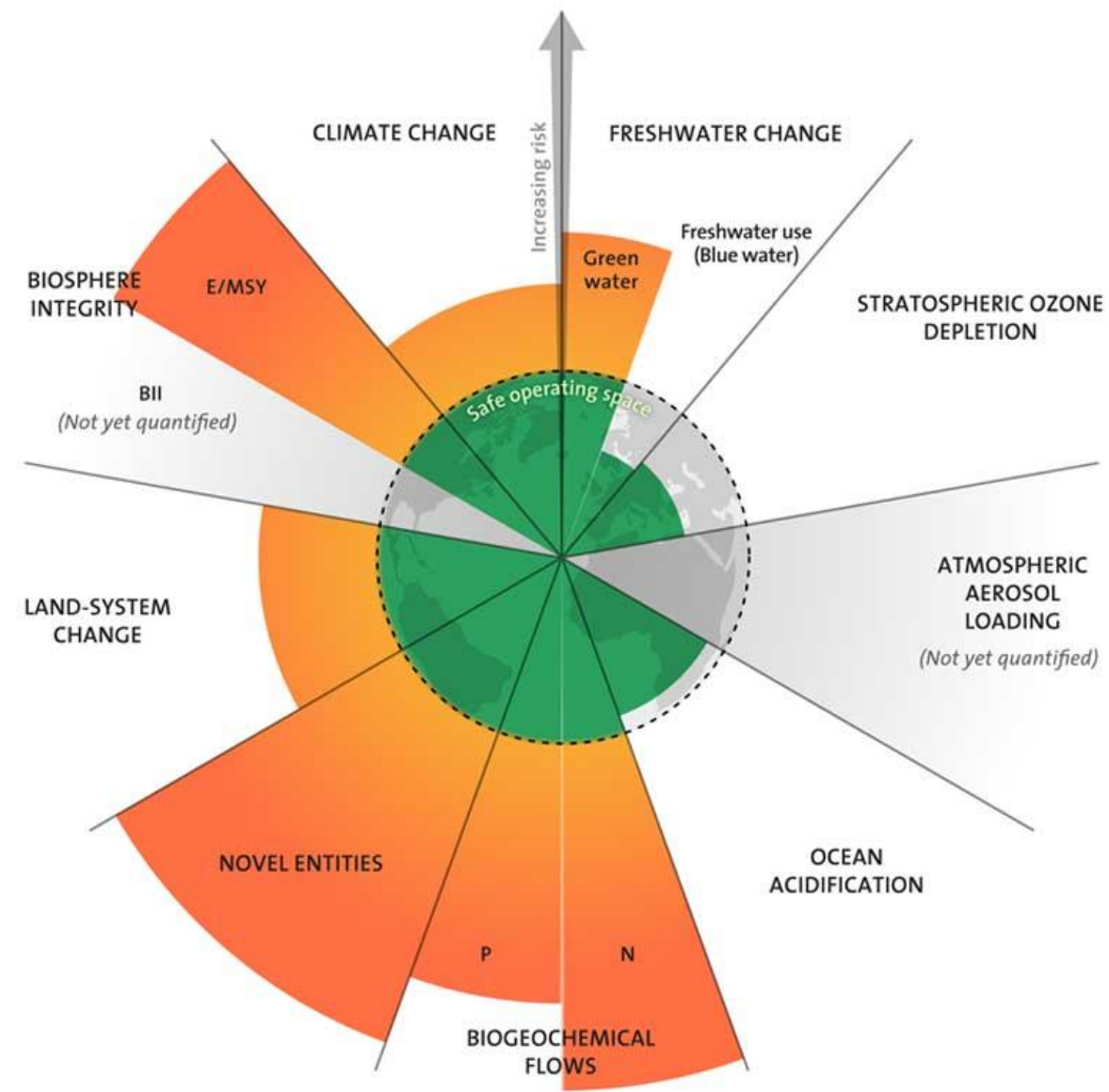
Environment



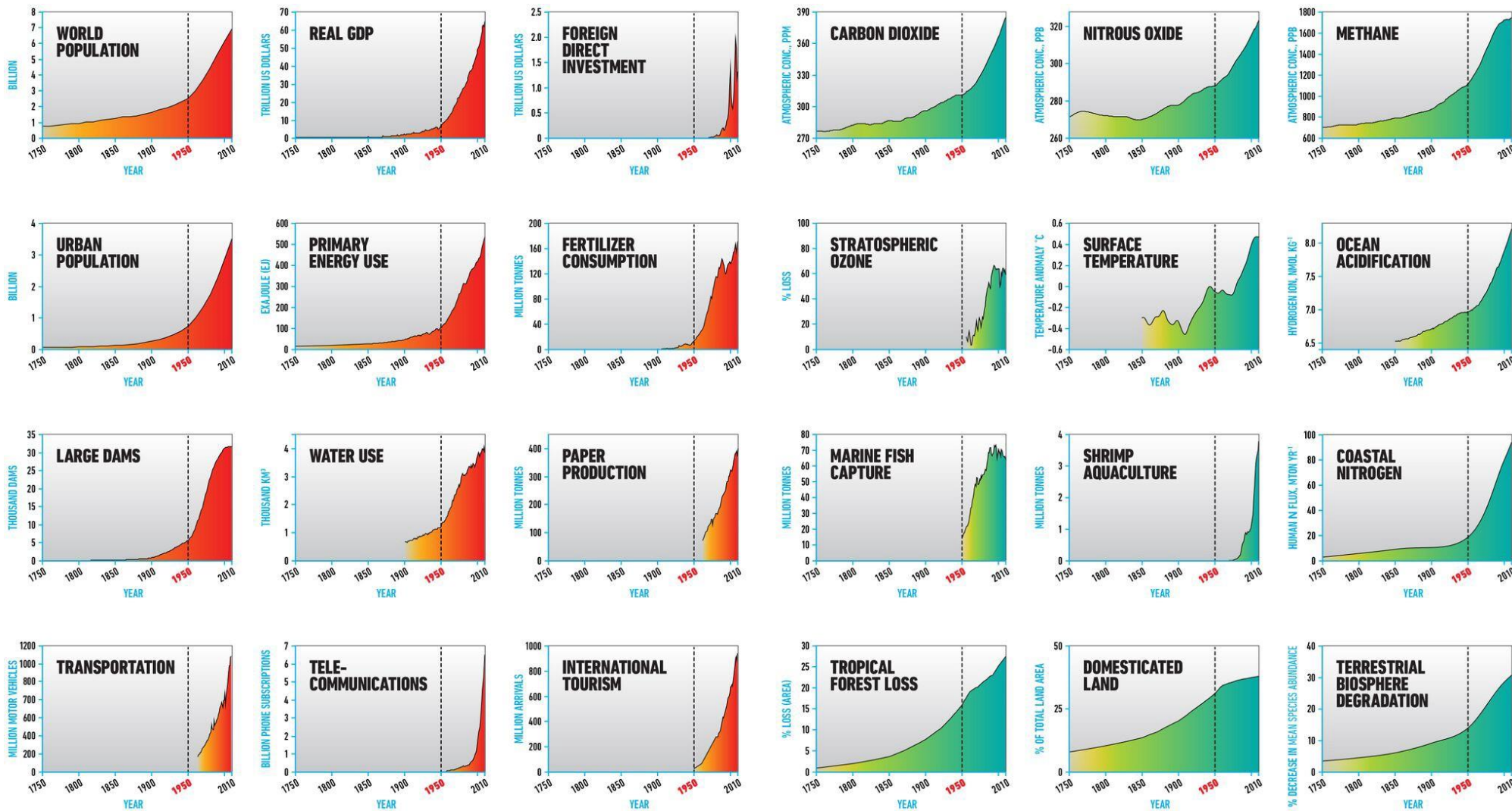
Economy

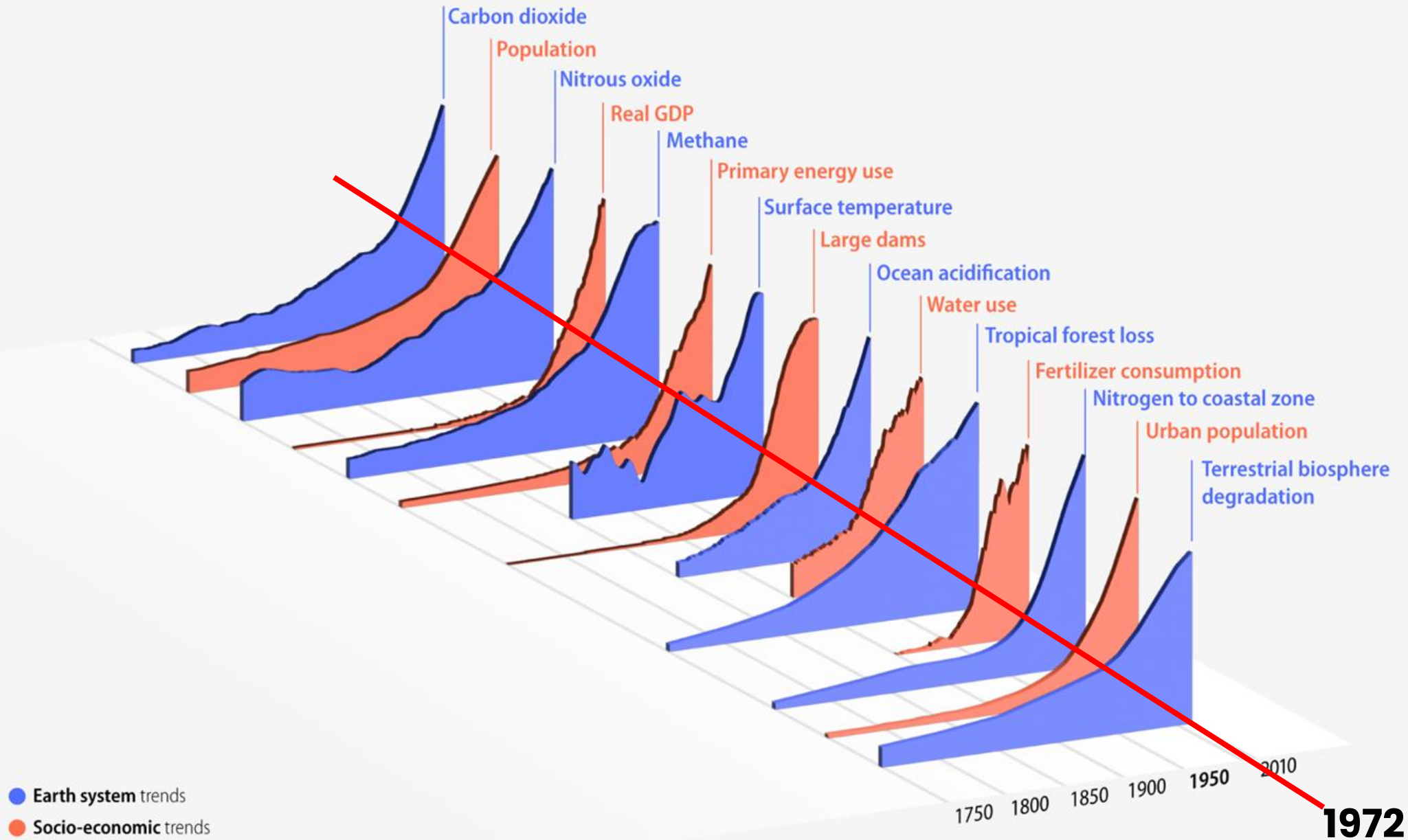


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Siehe auch:  
Branderhorst, G.  
(2020.) Update to  
Limits to Growth:  
Comparing the World3  
Model with Empirical  
Data. *Journal of  
Industrial Ecology*.



# Das Anthropozän



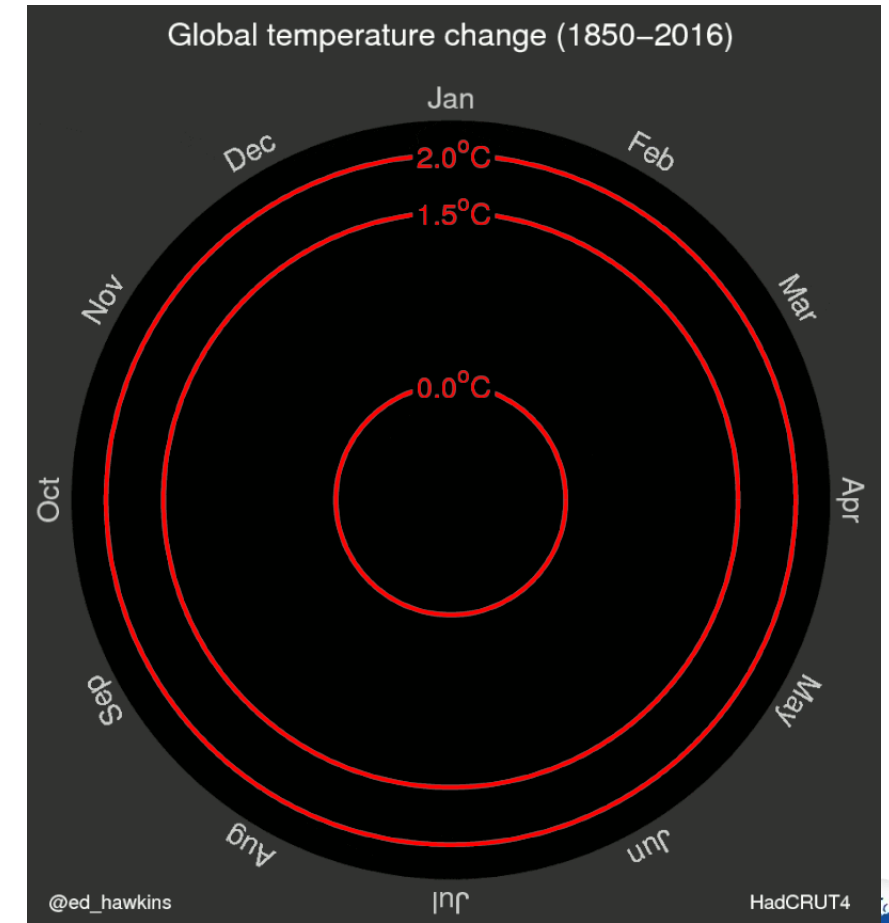
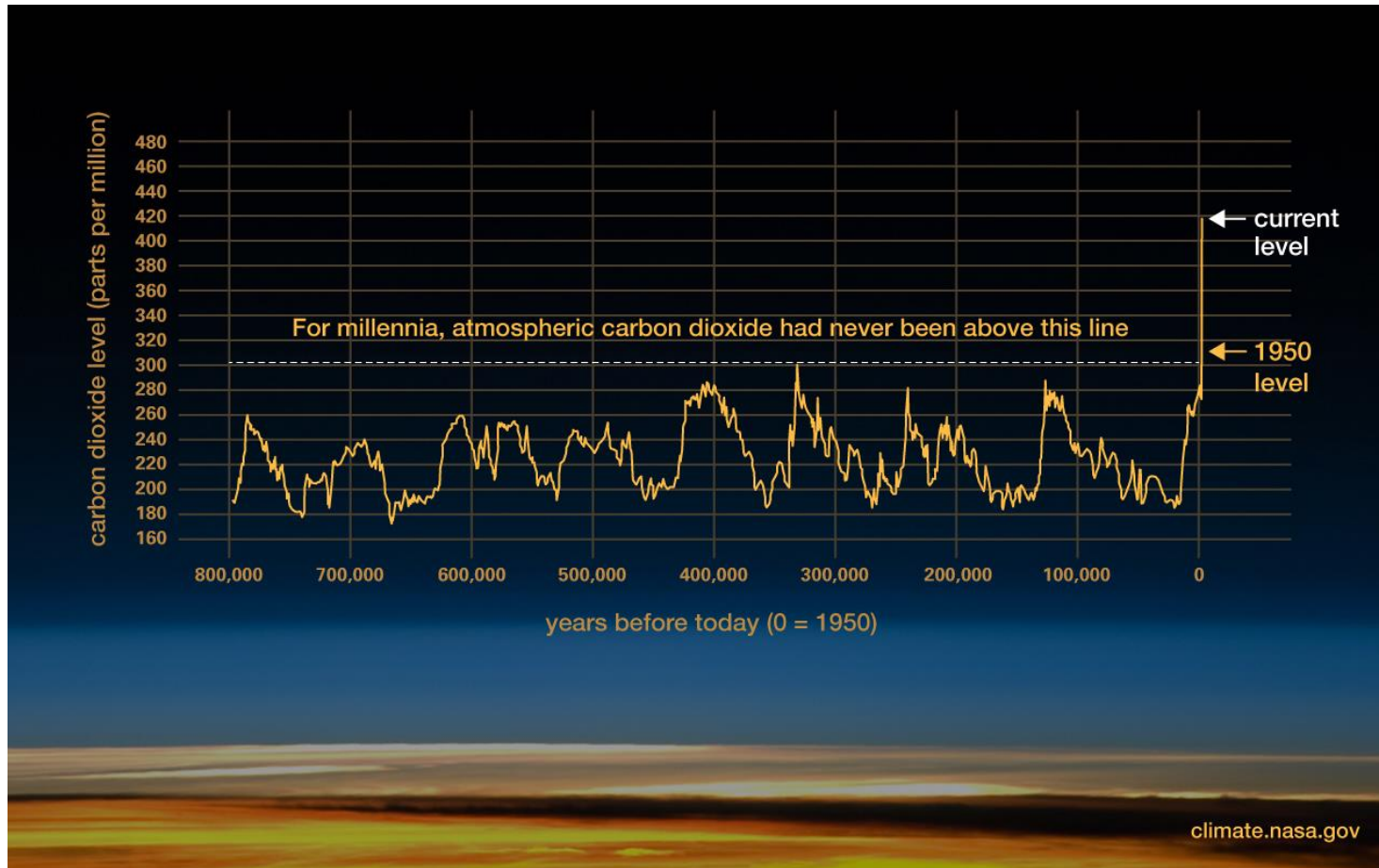


● Earth system trends  
 ● Socio-economic trends

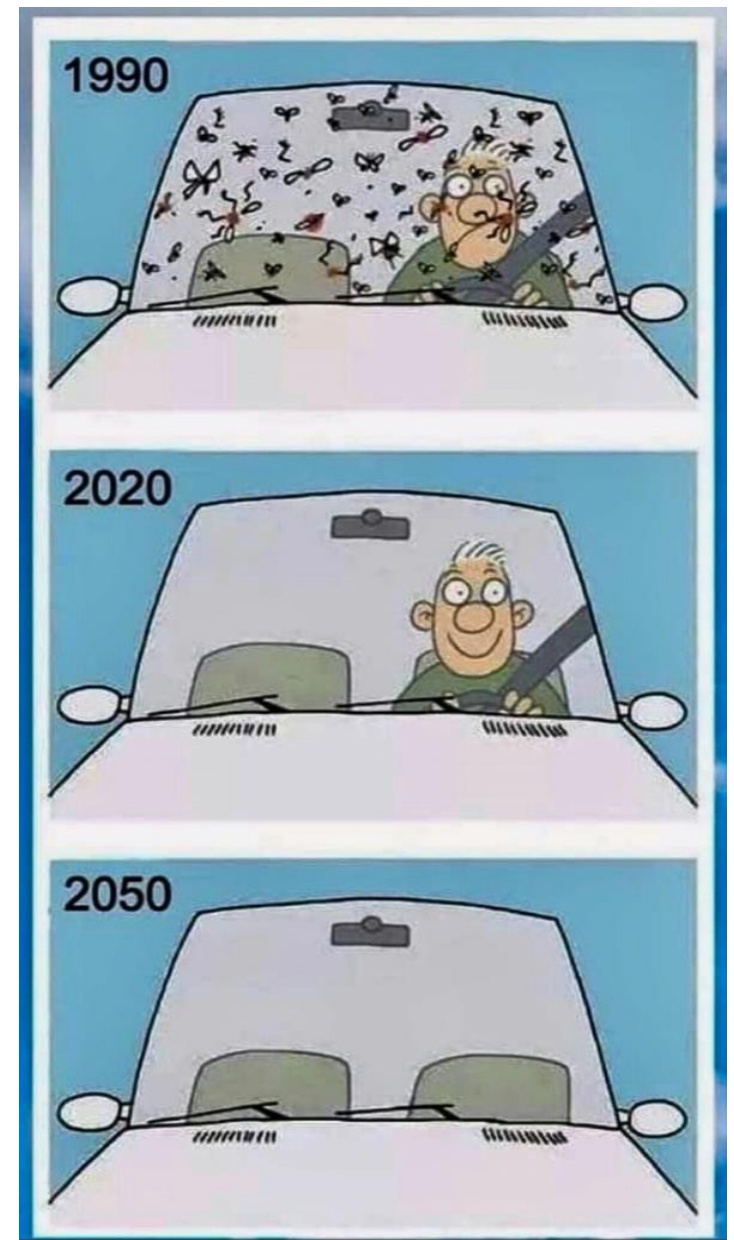
(based on Steffen et al., 2015)

1972

# Globale Erwärmung



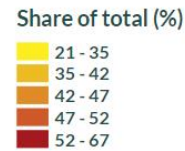
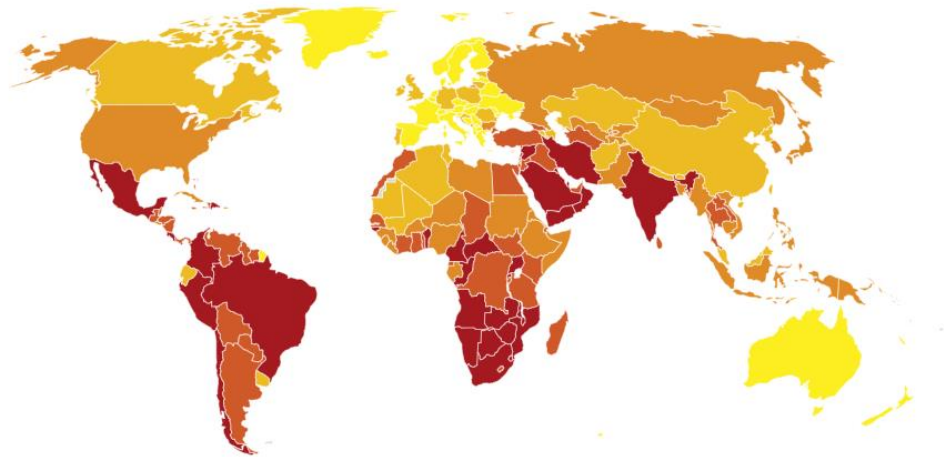




# Ungleichheit I

## Top 10% national income share

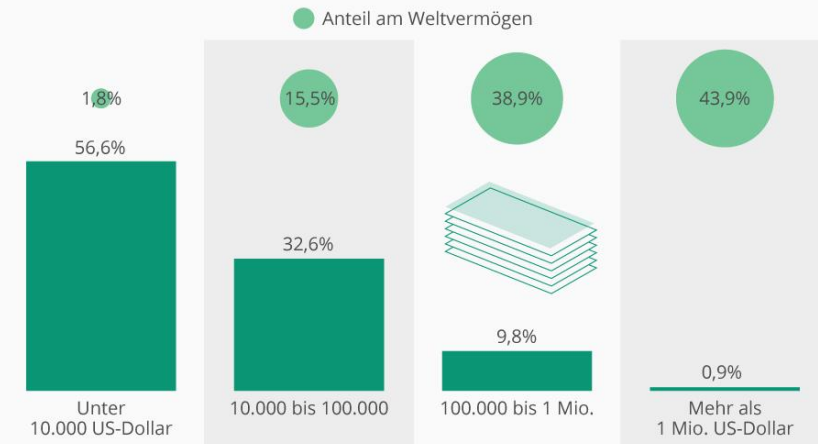
Region View



[https://wid.world/world/#sptinc\\_p90p100\\_z/US;FR;DE;CN;ZA;GB;WO/last/eu/k/p/yearly/s/false/25.873500000000003/80/curve/false/country](https://wid.world/world/#sptinc_p90p100_z/US;FR;DE;CN;ZA;GB;WO/last/eu/k/p/yearly/s/false/25.873500000000003/80/curve/false/country)

## Die oberen 10% besitzen 83% des Weltvermögens

Anteil der Personen mit folgendem Vermögen und Anteil am Weltvermögen



@Statista\_com Quelle: Credit Suisse

statista

Seit 1995 hat das reichste Prozent der Weltbevölkerung fast 20-mal mehr Vermögen angehäuft als die ärmsten 50 Prozent der Menschheit zusammen.

**REICHSTES PROZENT**



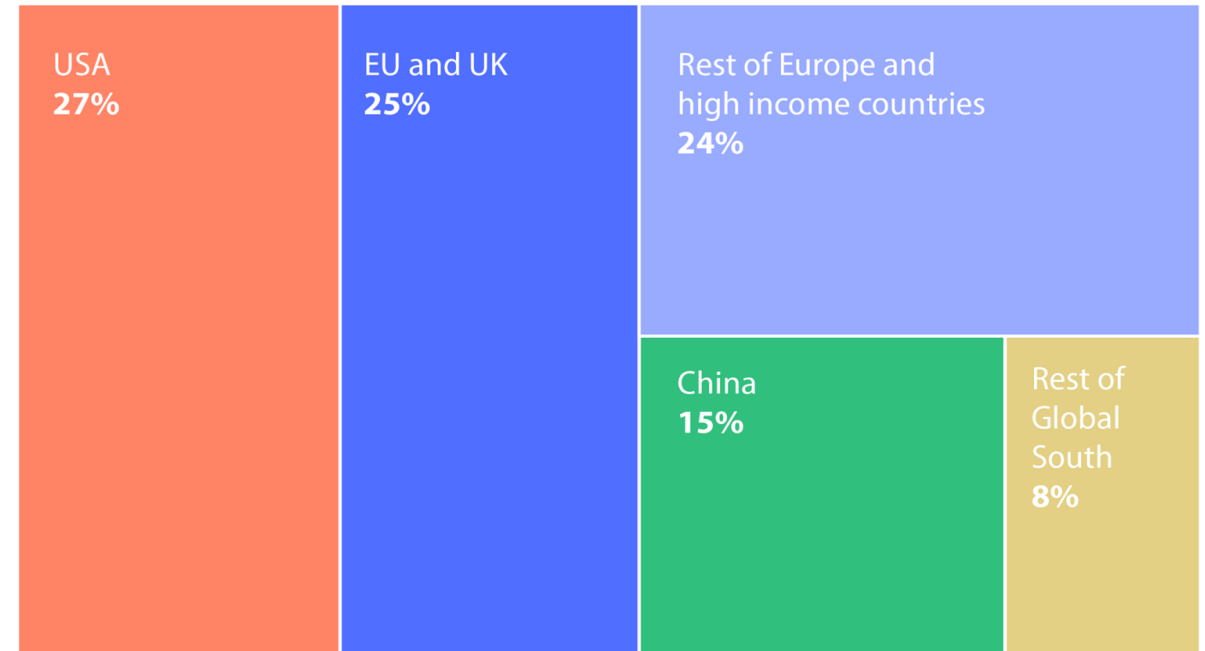
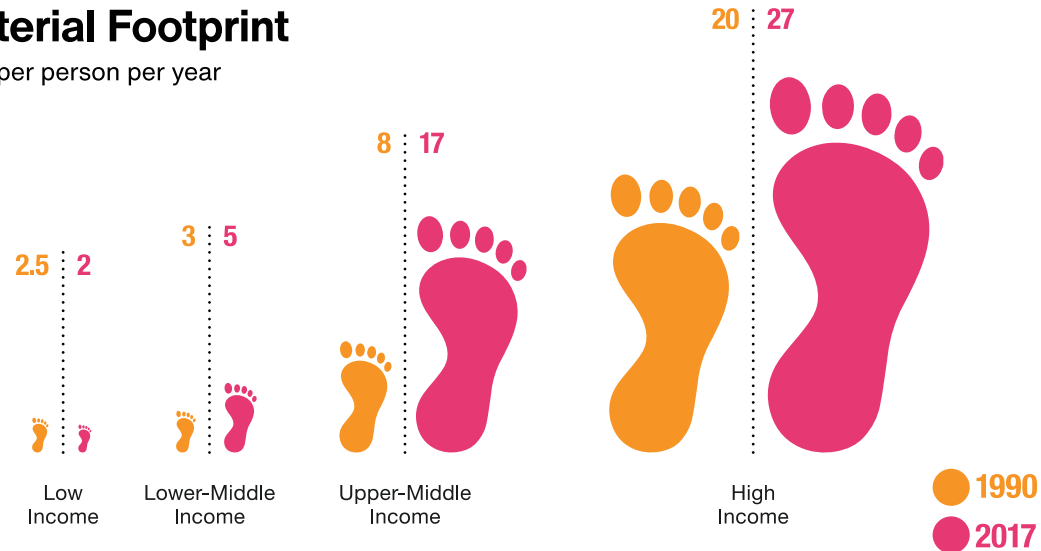
**ÄRMSTE 50 PROZENT**

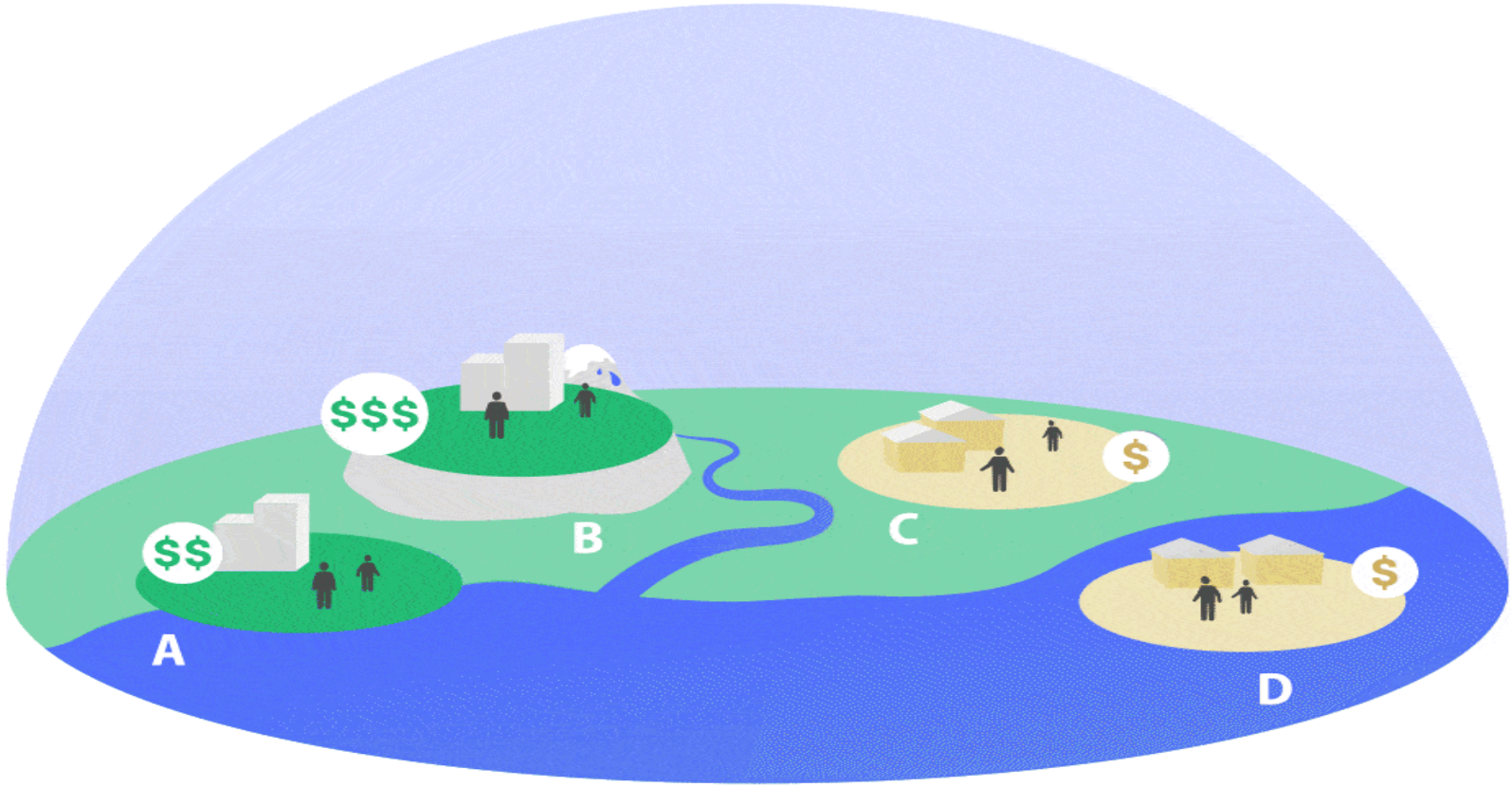


# Ungleichheit II

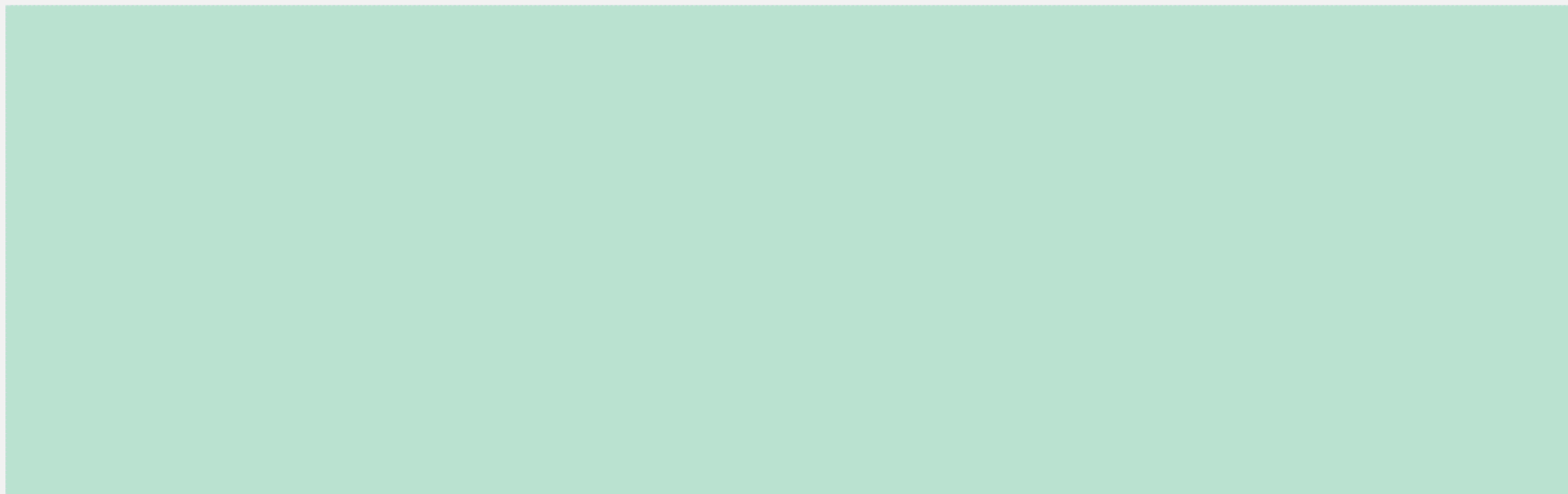
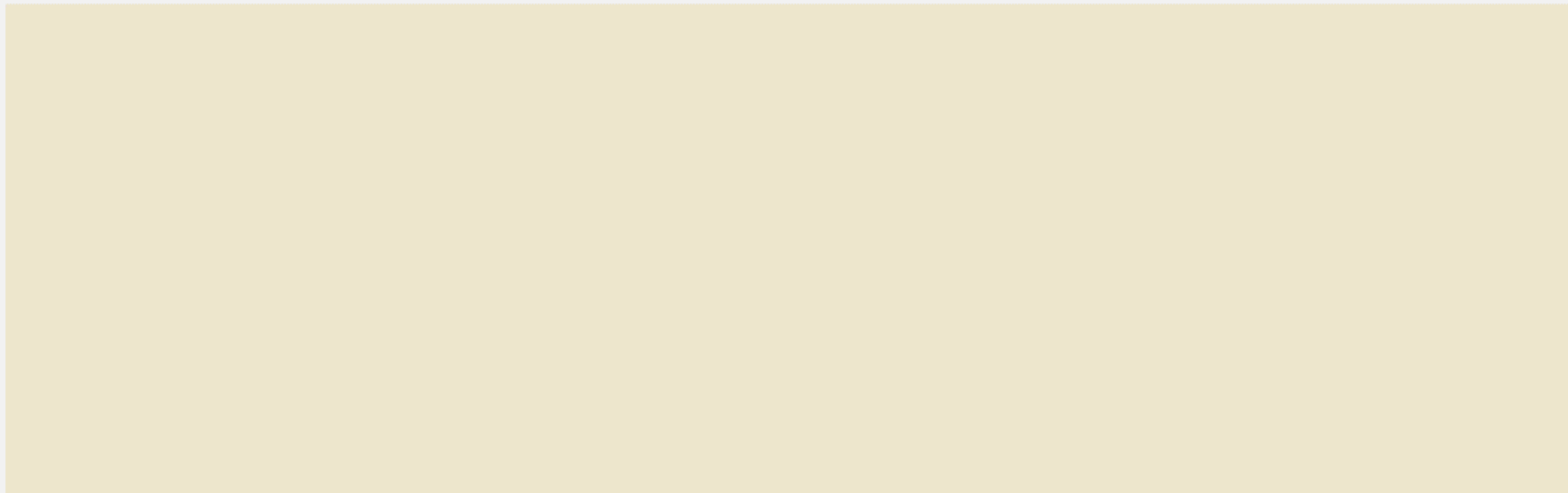
## Material Footprint

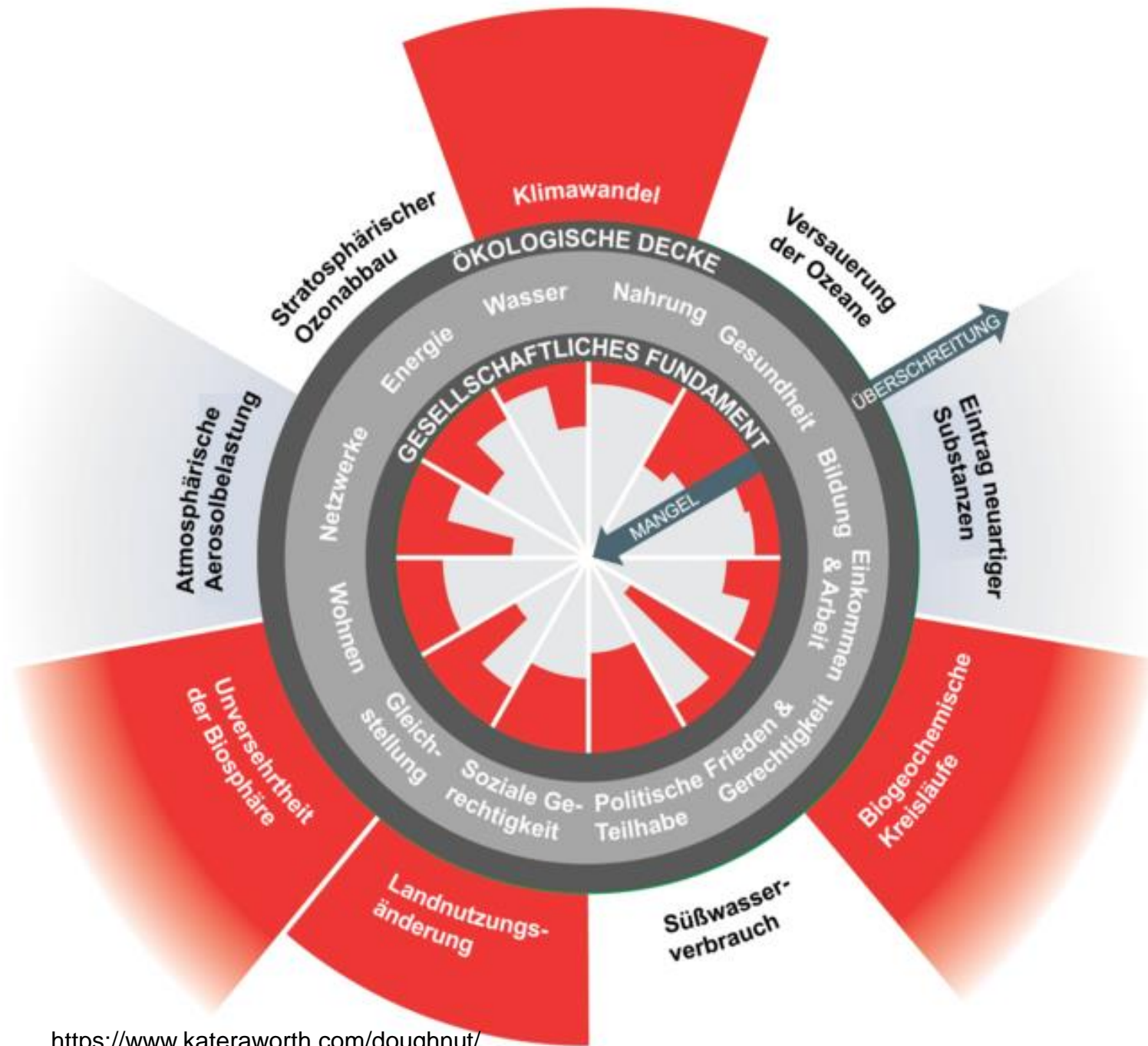
Tons per person per year





# Investments in companies operating in the **beef** and **soy** sectors in the Brazilian Amazon





<https://www.kateraworth.com/doughnut/>



Was bedeutet Fortschritt?

Was ist Wohlstand?

Ende der Globalisierung?

Was ist globale Gerechtigkeit?

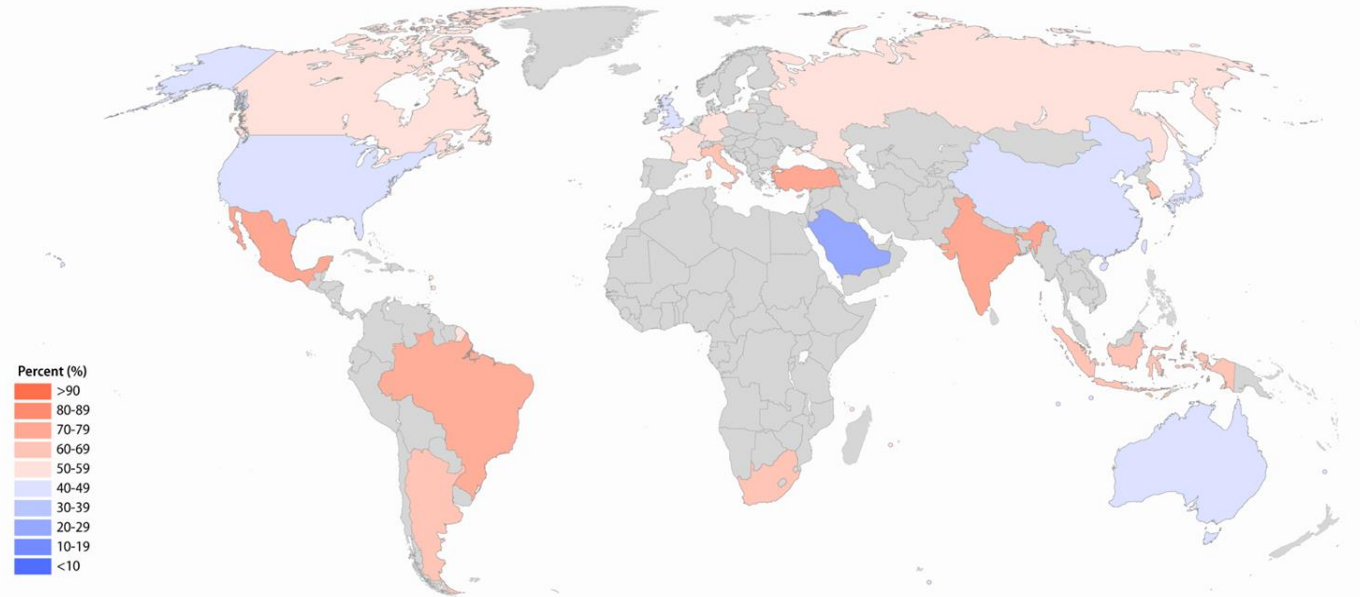
„Markt vs. Staat“?

Wie messen wir Wohlstand?

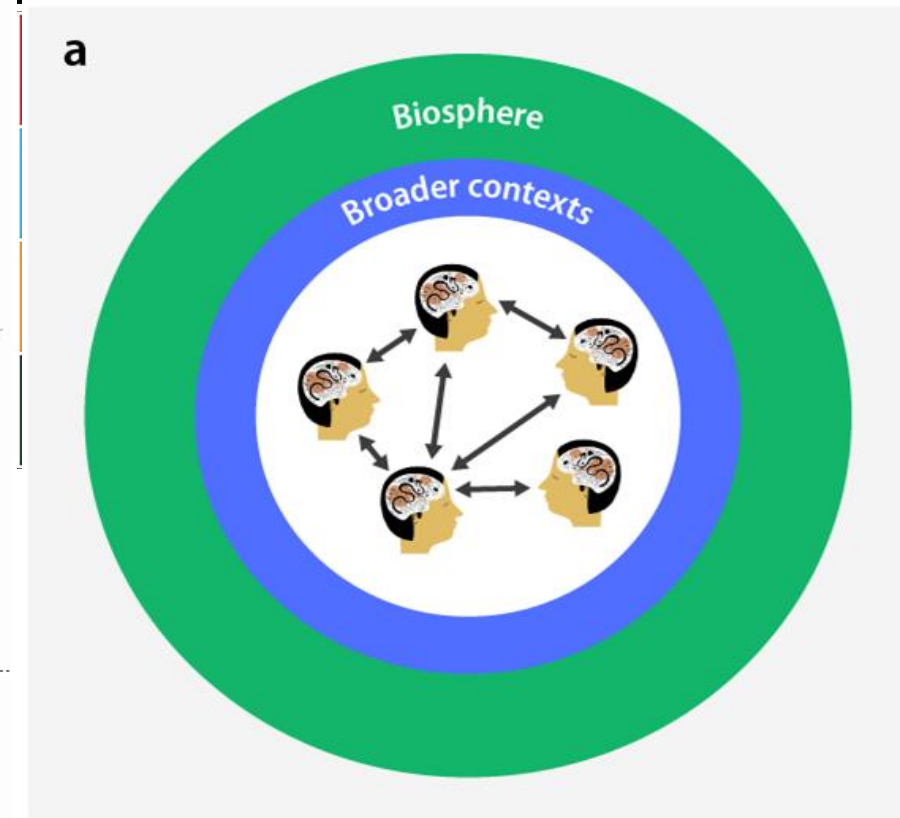
Welche Rolle kann Technologie spielen?

# Wandel geht nur kollaborativ

- Systemische Lösungen für systemische Krisen



	ARG	AUS	BRA	CAN	CH	FRA	GB	GER	IND	INO	ITA	JAP	KSA	KOR	MEX	RUS	SAF	TUR	USA
Very or extremely worried about the state of nature today	68%	46%	74%	52%	46%	57%	46%	57%	70%	68%	69%	44%	26%	64%	77%	57%	66%	79%	45%
Protect environment over economic growth	41%	66%	54%	60%	68%	NA	NA	63%	NA	72%	NA	34%	NA	NA	55%	45%	NA	55%	50%
Economic growth over environmental protection	43%	31%	28%	40%	26%	NA	NA	27%	NA	21%	NA	23%	NA	NA	42%	42%	NA	41%	39%



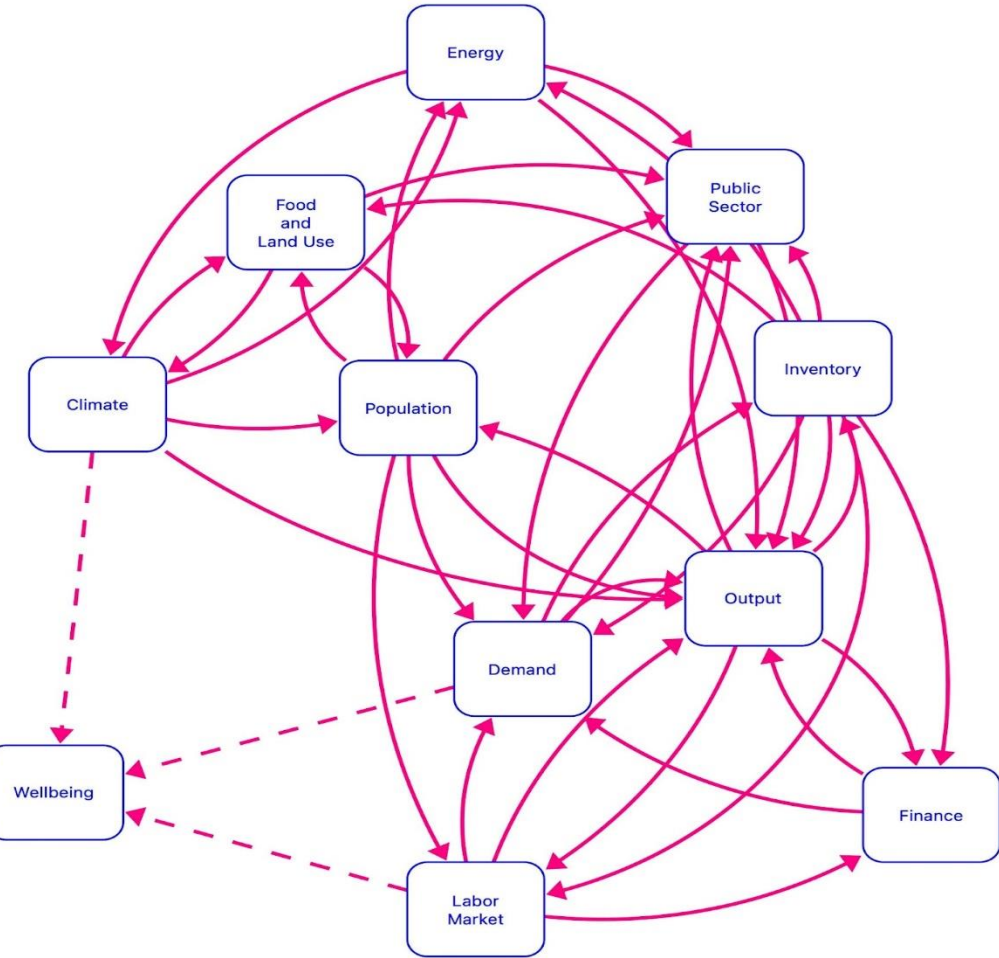


# Donella Meadows: Places to intervene in a system

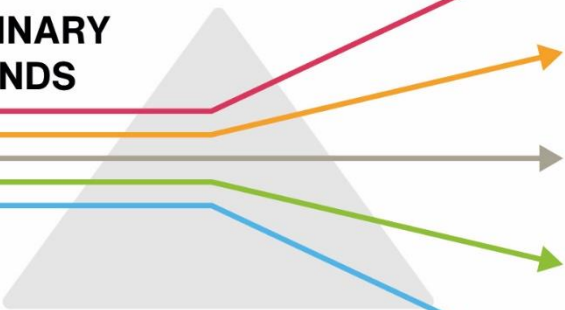
12. Constants, parameters, numbers (such as subsidies, taxes, standards).
11. The sizes of buffers and other stabilizing stocks, relative to their flows.
10. The structure of material stocks and flows (such as transport networks, population age structures).
9. The lengths of delays, relative to the rate of system change.
8. The strength of negative feedback loops, relative to the impacts they are trying to correct against.
7. The gain around driving positive feedback loops.
6. The structure of information flows (who does and does not have access to information).
5. The rules of the system (such as incentives, punishments, constraints).
4. The power to add, change, evolve, or self-organize system structure.
3. The goals of the system.
2. The mindset or paradigm out of which the system — its goals, structure, rules, delays, parameters — arises.
1. The power to transcend paradigms.



# Earth4All



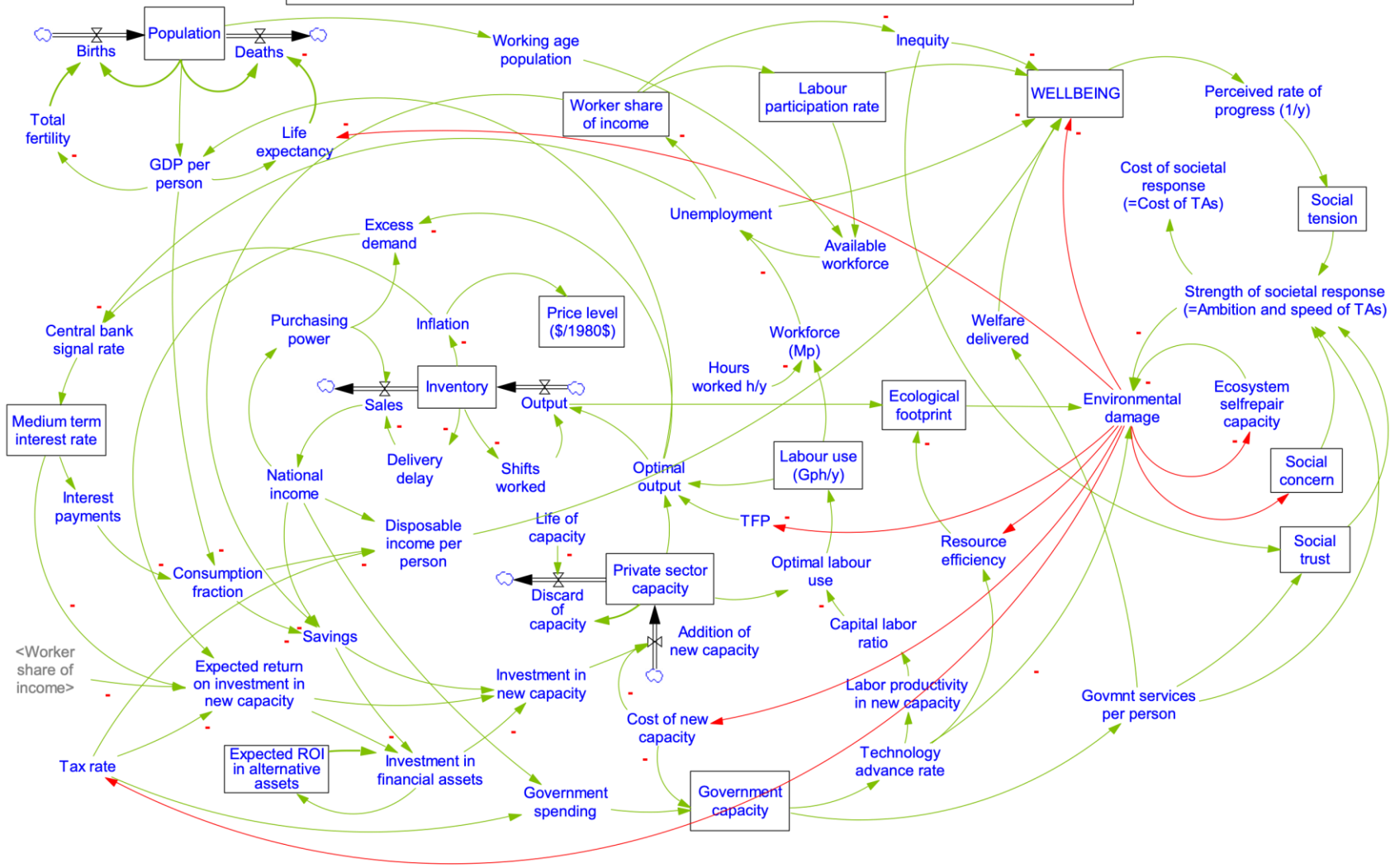
**5 EXTRAORDINARY  
TURNAROUNDS**



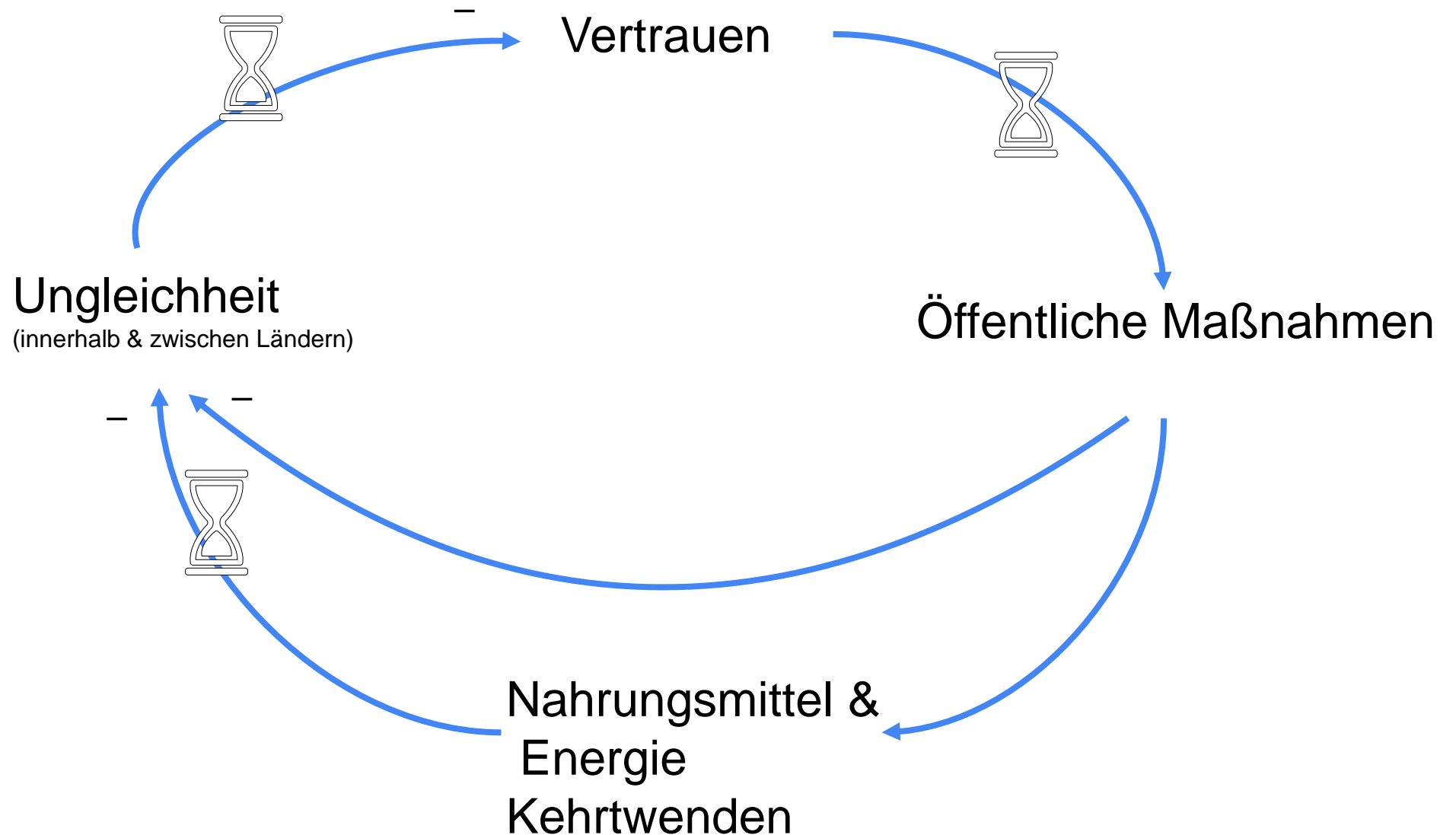
**GLOBAL  
CAMPAIGN**

# The Earth4All Model

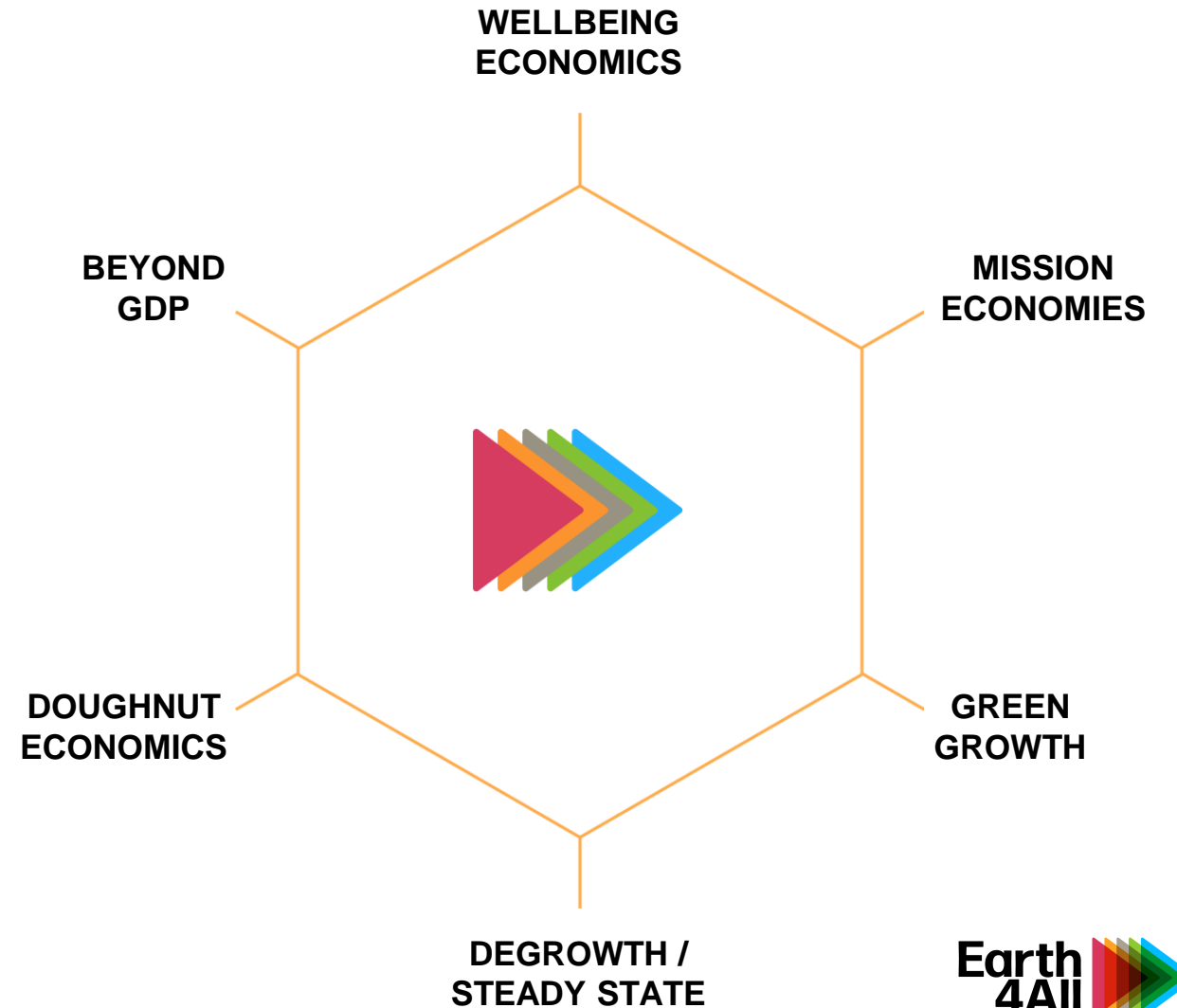
Main causal structure of the E4A-global jr model, highlighting 8 feedbacks from nature (in red). J Randers 220208



# Die soziale Dynamik im Earth4All Modell



# Das Earth4All Team



## Eine Zukunft, zwei Szenarien.

SCENARIO 1:

### Too Little Too Late:

What if we continue  
on our current  
destructive path?

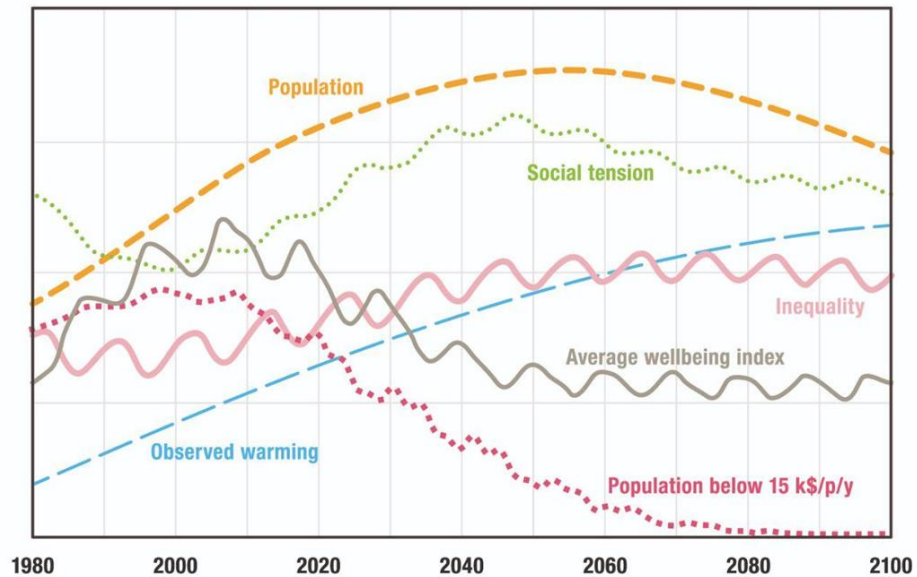
SCENARIO 2:

### The Giant Leap:

What if we achieve  
the fastest economic  
transformation in  
history?

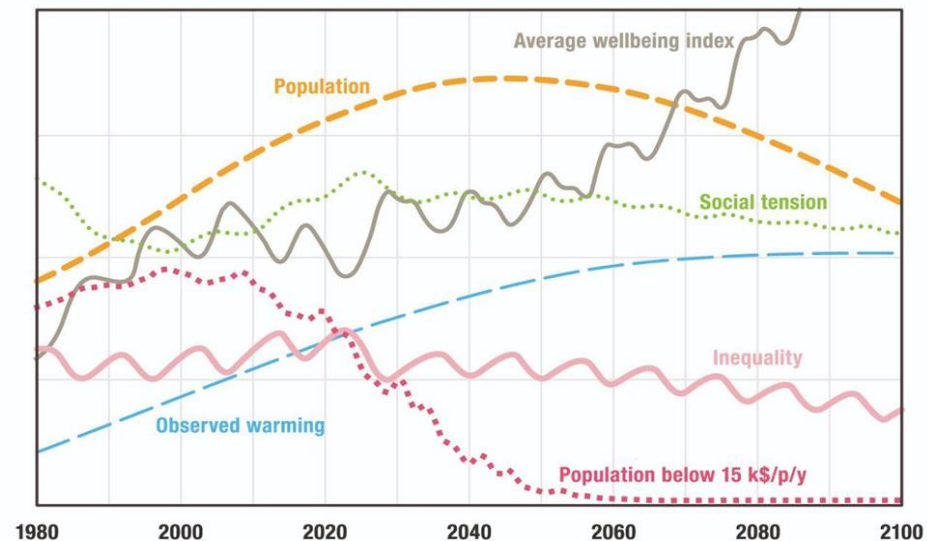
# 1. Main trends

Too little too late scenario



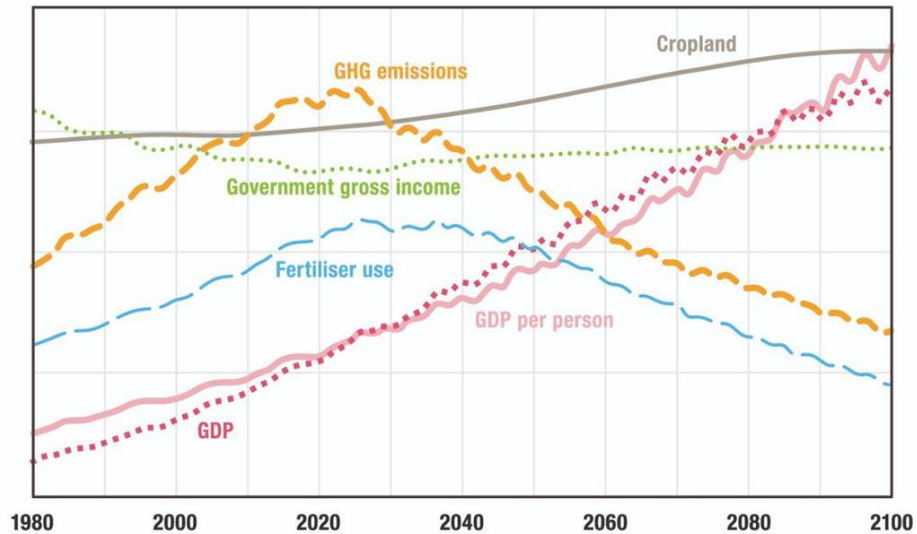
# 1. Main trends

Giant leap scenario



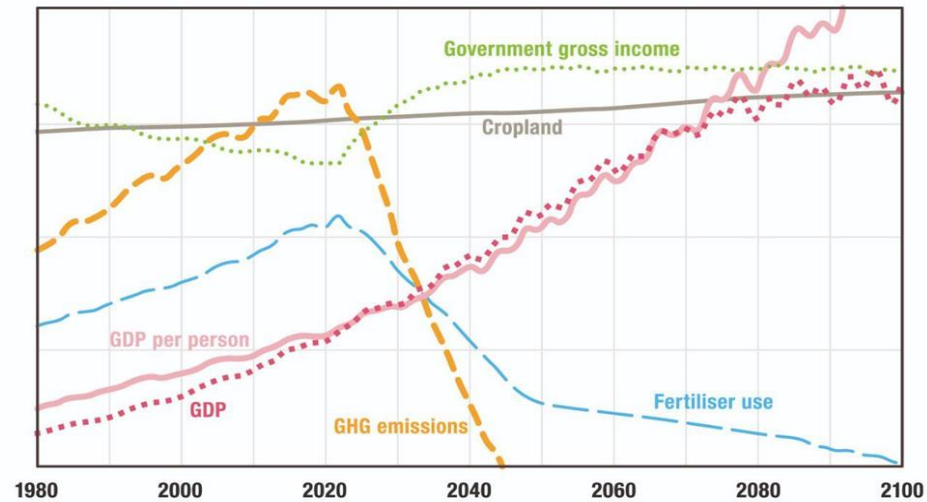
# 2. Human footprint

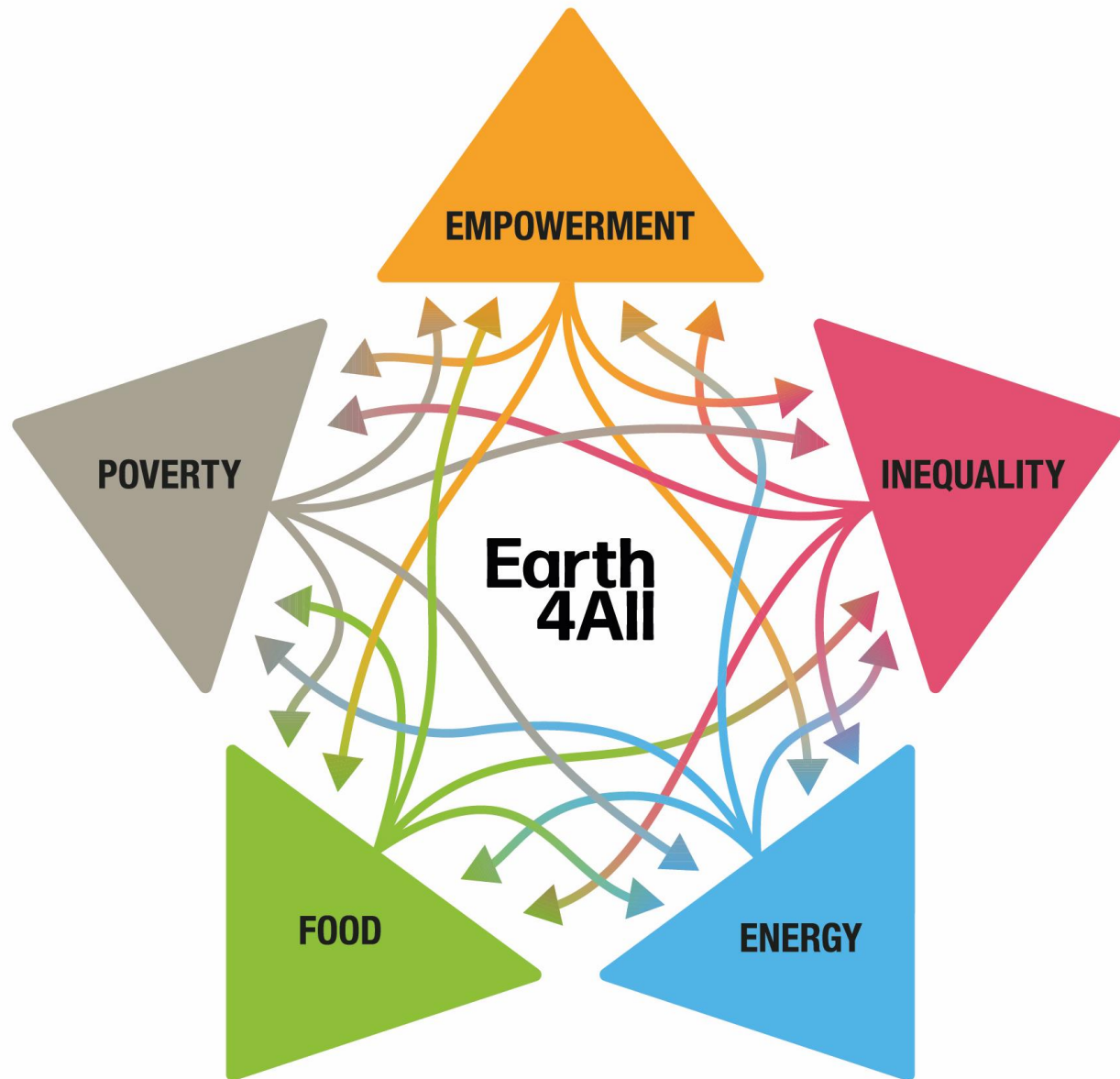
Too little too late scenario



# 2. Human footprint

Giant leap scenario



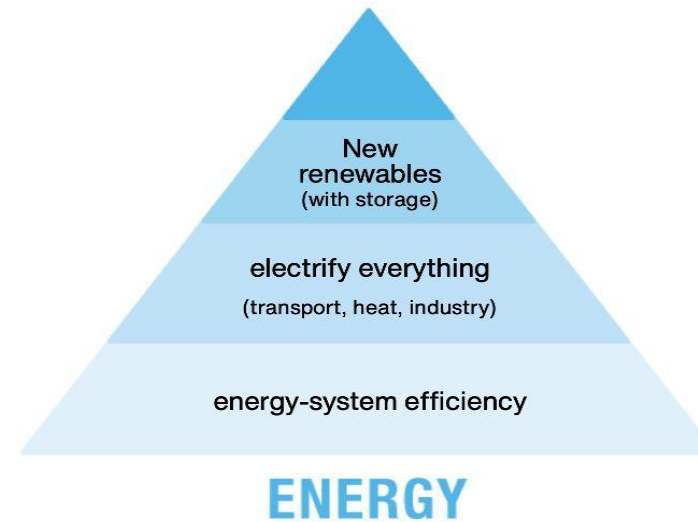
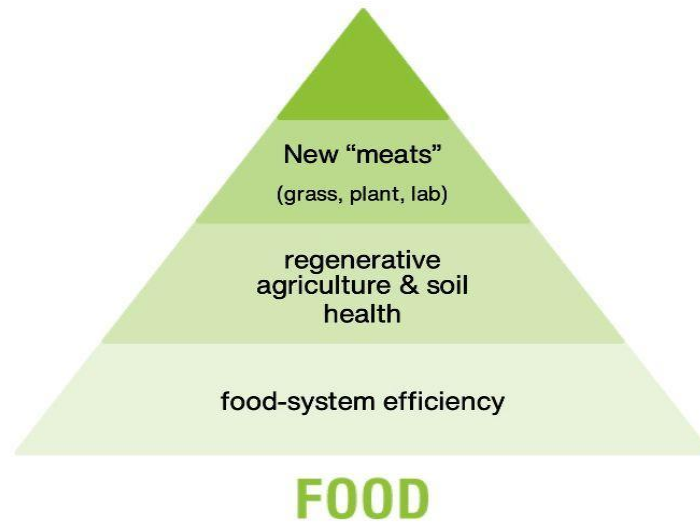
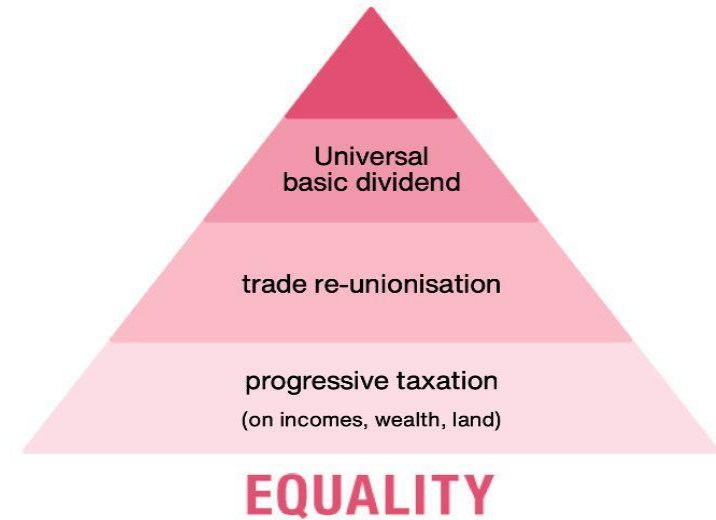
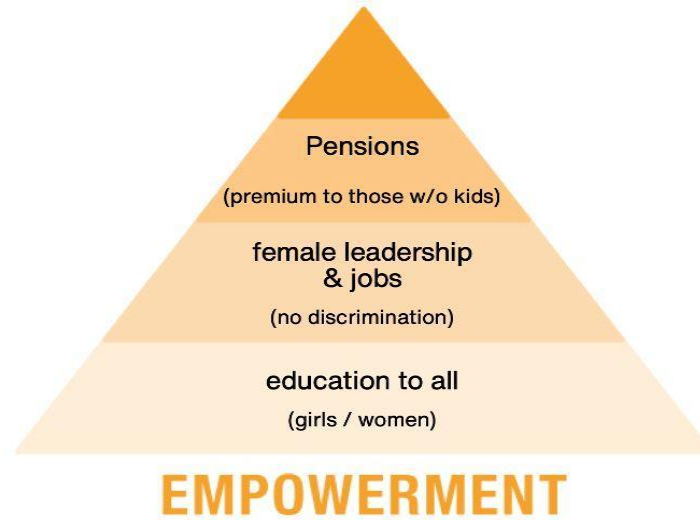
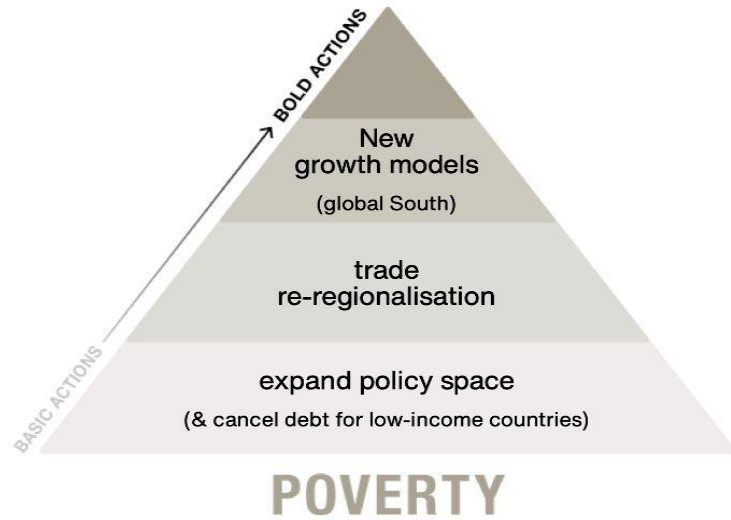




# Die fünf globalen Kehrtwenden

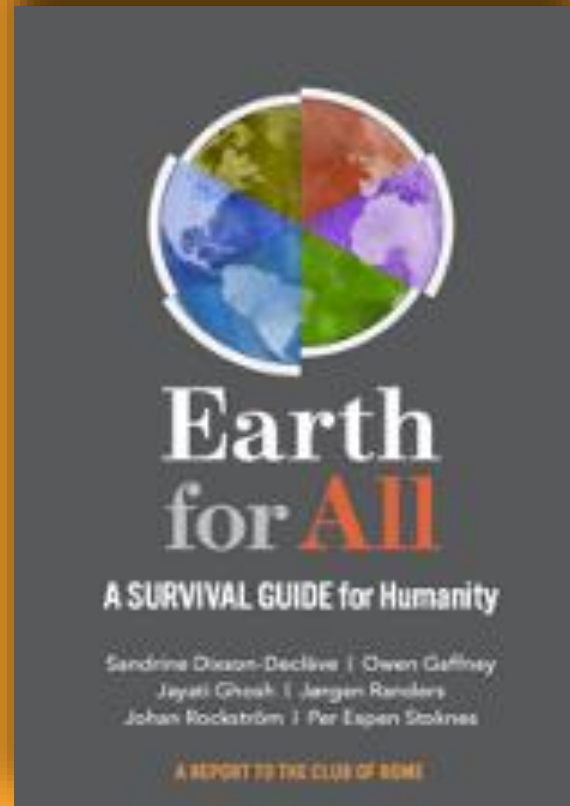
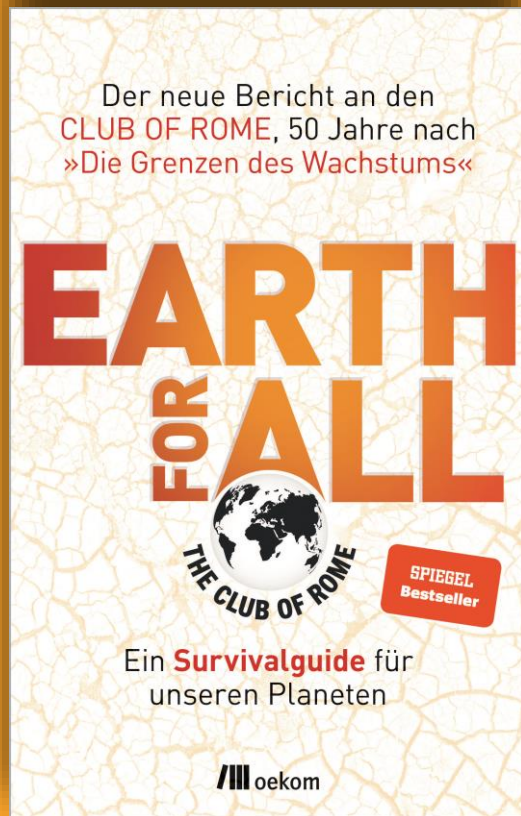
- 1** **Armut** Eine Wachstumsrate des BIP von mindestens 5 Prozent für einkommensschwache Länder, bis das BIP pro Kopf und Jahr über 15.000 US-Dollar beträgt.
- 2** **Ungleichheit** Die reichsten 10 Prozent verfügen über weniger als 40 Prozent des Nationaleinkommens.
- 3** **Empowerment** Geschlechtergerechtigkeit (auch als Beitrag zur Stabilisierung der Weltbevölkerung unter nun Milliarden bis 2050)
- 4** **Ernährung** Eine gesunde Ernährung für alle ohne Ausweitung der landwirtschaftlichen Anbauflächen, dazu Schutz der Böden und Ökosysteme sowie Verringerung der Lebensmittelverschwendung.
- 5** **Energie** Halbierung der Emissionen etwa alle 10 Jahre, um 2050 «Netto-Null» zu erreichen

# 15 Maßnahmen



# Earth4All

Der Neue Bericht an den Club of Rome



Earth  
4All



# Our vision?

**An economic system  
that prioritises health  
and wellbeing of  
people and planet**



