

FHV

Vorarlberg University
of Applied Sciences

A discussion on „Sustainable Impacts“

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Research Center Business Informatics



RUN-EU InnoBoost

Innovation Pedagogy Workshop Series for
Researchers

9th Dec 2025

A pen, a sheet of paper, a microphone turned on

Introduction – estimation ...



**How many animals get slaughtered
during our session?***

*2025 U.S. ANIMAL KILL CLOCK: <https://animalclock.org/>

Tragedy of the Commons

(i.e., Ostrom (1990), Hardin (1968); ... symbolize the degradation of the environment to be expected whenever many individuals use a scarce resource in common)

See also: **sprouts** 

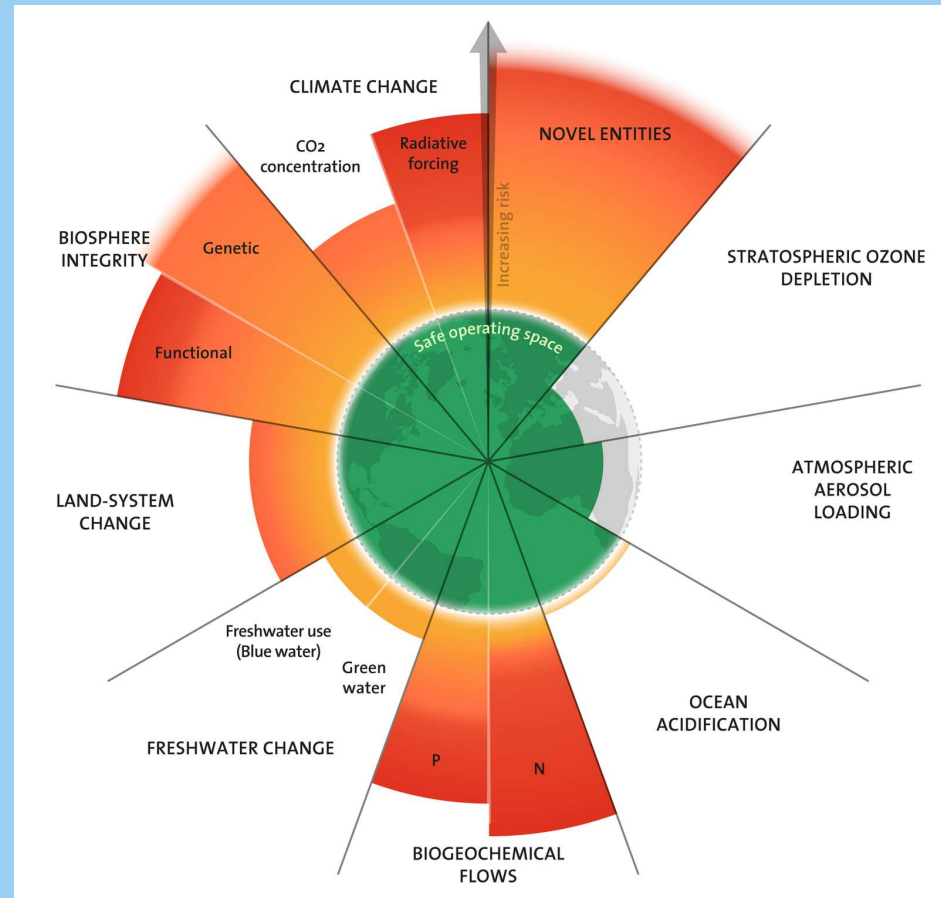
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Introduction – examples: environment



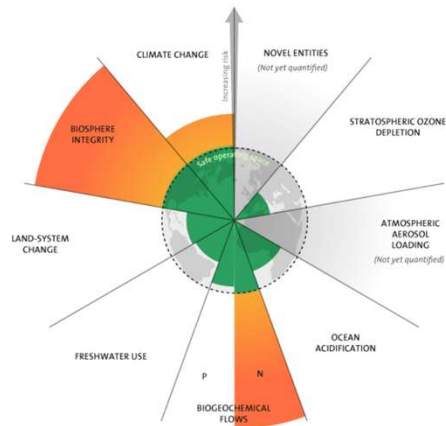
<https://www.stockholmresilience.org/research/planetary-boundaries.html>

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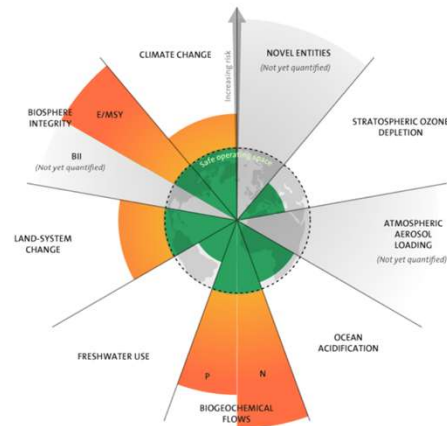
Planetary boundaries

2009



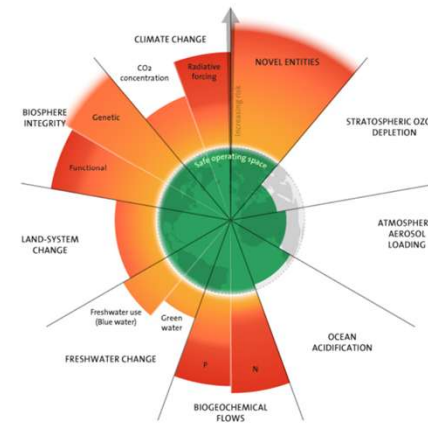
7 boundaries assessed,
3 crossed

2015



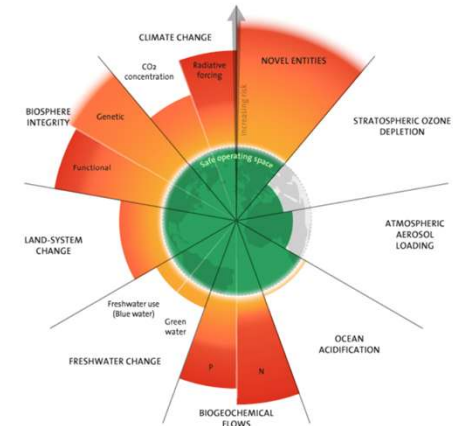
7 boundaries assessed,
4 crossed

2023



9 boundaries assessed,
6 crossed

2025



9 boundaries assessed,
7 crossed

<https://www.stockholmresilience.org/research/planetary-boundaries.html>

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Introduction – examples: economic

Stand: Donnerstag, den 04.12.2025, um 19:55:54

Heute	in 1 Jahr	in 2 Jahren	in 5 Jahren	in 10 Jahren
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Deutschland

Bil. Mrd. Mio.

2.913.432.911.712 €



Verschuldung pro Kopf

35.001 €

USA

Bil. Mrd. Mio.

44.157.744.997.219 \$



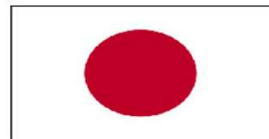
Verschuldung pro Kopf

132.988 \$

Japan

Bil. Mrd. Mio.

12.723.607.877.404 \$



Verschuldung pro Kopf

.100.306 \$

China

Bil. Mrd. Mio.

3.766.264.712.681 \$



Verschuldung pro Kopf

2.790 \$

today

<https://www.boerse.de/staatsverschuldung/schuldenuhren>

Stand: Dienstag, den 04.12.2035, um 19:57:16

Heute	in 1 Jahr	in 2 Jahren	in 5 Jahren	in 10 Jahren
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Deutschland

Bil. Mrd. Mio.

4.458.912.970.780 €



Verschuldung pro Kopf

53.568 €

USA

Bil. Mrd. Mio.

84.638.089.574.433 \$



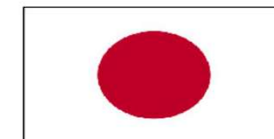
Verschuldung pro Kopf

254.902 \$

Japan

Bil. Mrd. Mio.

14.926.027.398.099 \$



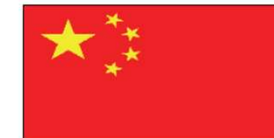
Verschuldung pro Kopf

.117.668 \$

China

Bil. Mrd. Mio.

4.066.020.951.170 \$



Verschuldung pro Kopf

3.012 \$

+10 years

+53%

+91%

+17%

+7%

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Discussion: what is ...

community

Place

Sustainability

Rethinking

How:

U. BALANCE
L
6-10

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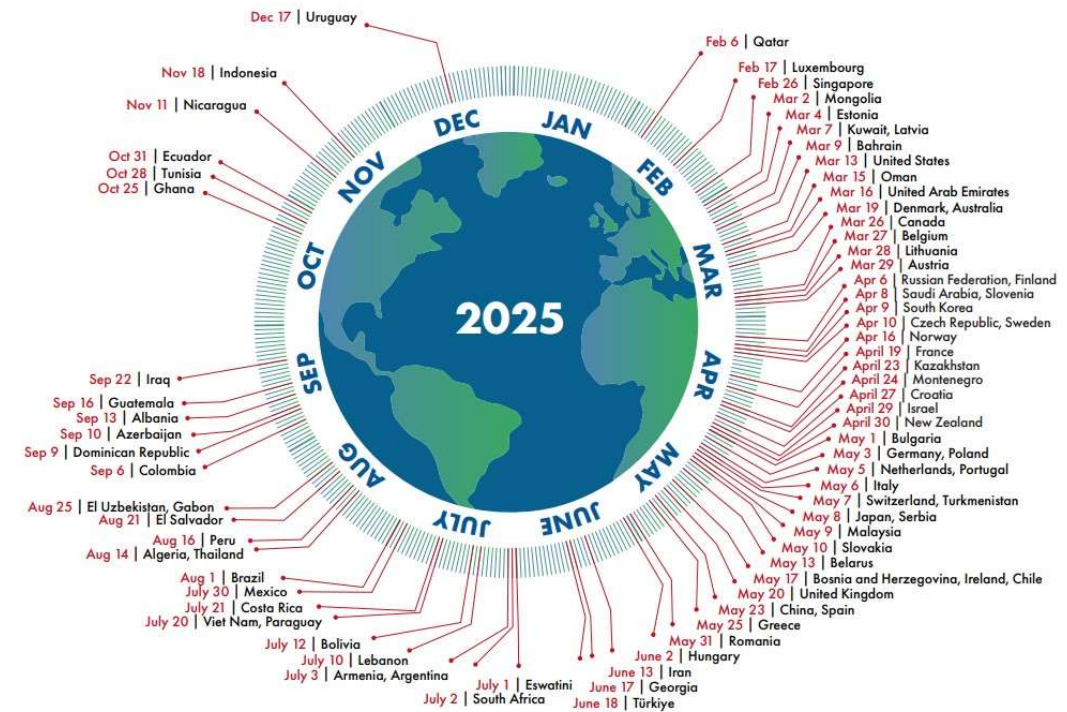


Sustainability



Country Overshoot Days 2025

When Earth Overshoot Day would land if all the people around the world lived like...



For more information, visit:
<https://overshootday.org/newsroom/country-overshoot-days/>

Source: National Footprint and Biocapacity Accounts, preliminary 2025 Edition
York University, FoDafo, Global Footprint Network, data.footprintnetwork.org



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Sustainability



United Nations Economic and Social Council <https://globalgoals.org/>
https://commission.europa.eu/strategy-and-policy/sustainable-development-goals_en

A new plan for Europe's sustainable prosperity and competitiveness



A new era for European Defence and Security



Supporting people, strengthening our societies and our social model



Sustaining our quality of life: food security, water and nature



Protecting our democracy, upholding our values



A global Europe: Leveraging our power and partnerships



Delivering together and preparing our Union for the future



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Discussion: what can ... contribute?



<https://www.freepik.com/>



<https://www.freepik.com/>

Innovators & Entrepreneurs

New business models

Extension of Product

Product Sustainability

Repair and
high station

not good for the people

Reuse Material

✓ Durability

CIRCULAR

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Discussion: what should be given greater importance?



<https://www.freepik.com/>

Technology - Ethics

Potential

How to use it?
AI

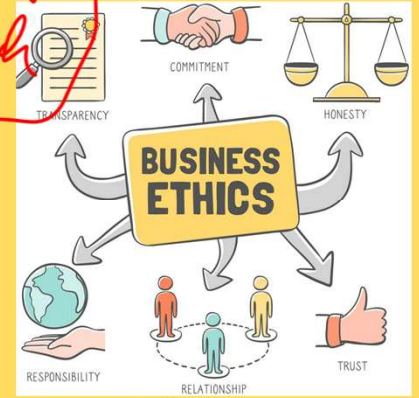
New technologies

Data

What use

Competition

Push to
AI & Co



<https://www.freepik.com/>

Which one?

Should be
critically
observed

global
broader

Can we make public?
AI
Data on the water

buying
things

Price &
long
sustainability

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Introduction – estimation ... let's check



**How many animals get slaughtered
during our session?***

*2025 U.S. ANIMAL KILL CLOCK: <https://animalclock.org/>

Introduction – follow up ...



How many animals die during rearing, are wasted during processing, or are later disposed of as waste?*

*<https://www.geo.de/natur/tierwelt/studie--18-milliarden-nutztiere-sterben-jaehrlich--ohne-gegessen-zu-werden-34236372.html>



Contact details:

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Creating Impact

Political, Economic, Social, Technological, Environment, Legislative

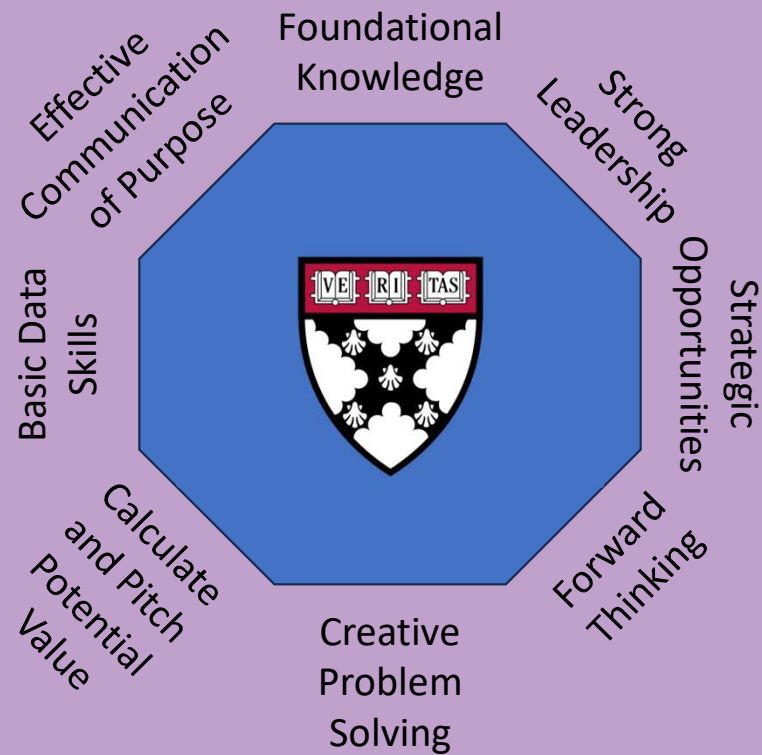


Communication
 6 Questions → Quality
 Results
 Timeliness
 Empathy
 Compassion
 Sustainability Skills to
 Make a Difference
 Future living people
 Good living
 Schreder
 System thinking
 as system
 Whole person
 Analytical
 Skills
 Thinking in
 generations



Harvard Business School Online:
<https://online.hbs.edu/blog/post/sustainability-skills>

Sustainability skills – purpose-driven professionals



Source: Harvard Business School Online:
<https://online.hbs.edu/blog/post/sustainability-skills>

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Creating impact ... as what, for whom?



<https://thinkingpathwayz.weebly.com/blog/developing-self-reflective-learners>

Sustainable impact – write a picture

What do you want to become? [*Researcher, Professor, Industry Captain, ...*]

What do you want to do when you become a [*Professor*]?

What do you will improve as a [*Professor*]?

Where do you want to be geographically?

How will technology impact you?

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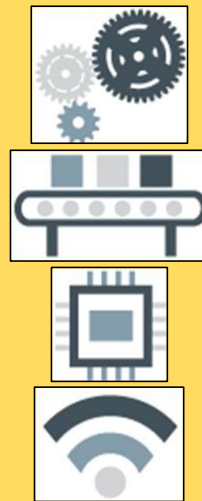


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Creating impact ... technology? geography?

- Industry 1.0 →
Mechanization
- Industry 2.0 →
Mass production, assembly lines
- Industry 3.0 →
Automatization, ICT, electronics
- **Industry 4.0***** →
Cyber-physical systems, IOT, networks
- *Industry 5.0*
Sustainability, Human Resources, Resilience





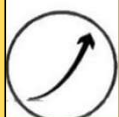
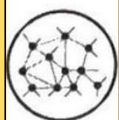
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Impact ... focus



← Time →

Acceleration vs. Realization

← Thinking & approach →

Digital distraction vs. Legacy thinking

← Focus →

Next election vs. Next generation

← Benefits →

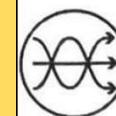
Short term profits vs. Long term legacy

← Uncertainty →

Global risks vs. „holistic“ scenario planning

← Progress →

Endless growth vs. Superordinate target



Adopted from: Krznaric (2024)

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