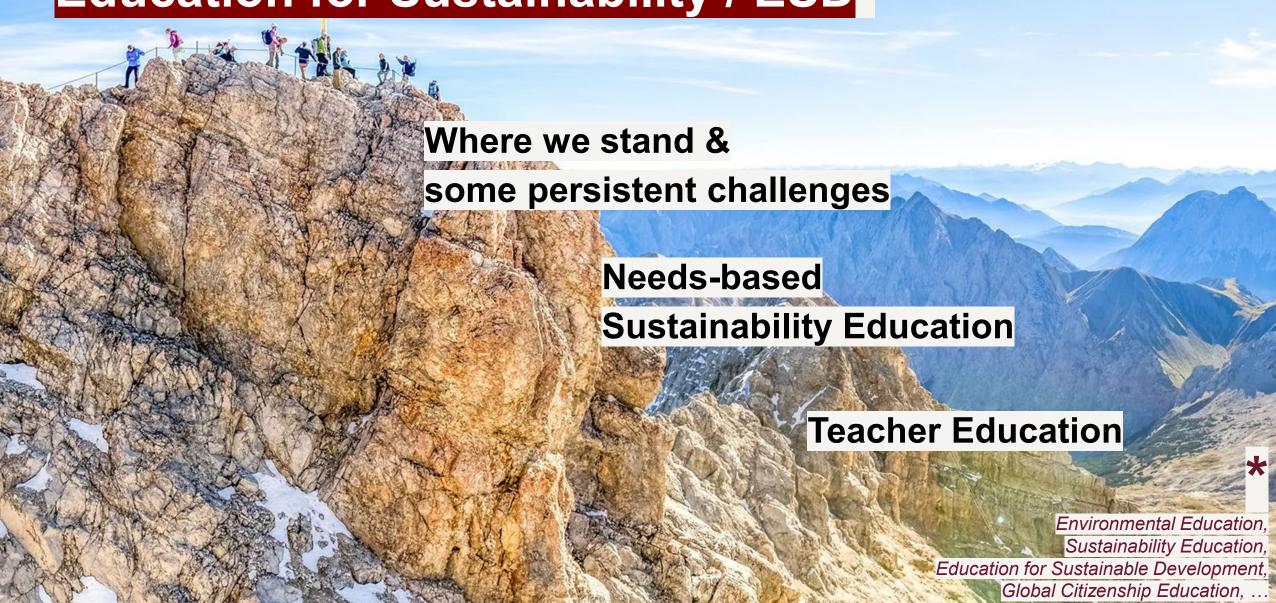
# EDUCATING FOR SUSTAINABLE DEVELOPMENT IN A POLARIZED WORLD











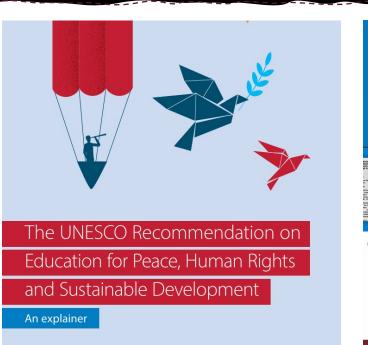


### **SUSTAINABILITY EDUCATION: INTO THE MAINSTREAM**





→ Global program, 5 priority action areas





→ only global legal education instrument: ESD as quality education

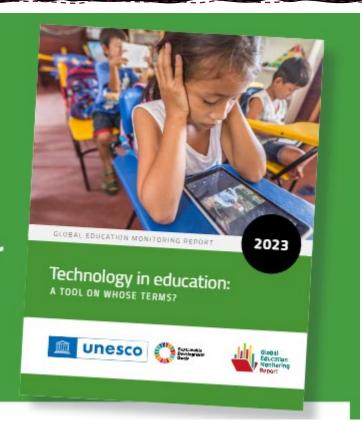
### **SUSTAINABILITY EDUCATION: INTO THE MAINSTREAM**



SDG 4 MID-TERM PROGRESS REVIEW

Progress since 2015 has been far too slow

Cover photo: Ismael Martínez Sánchez/ProFuturo



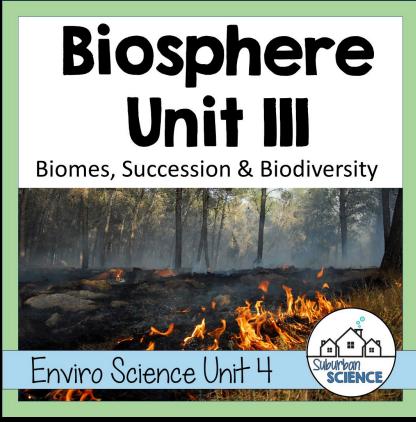
If countries <u>were</u> on track to meet their national 2030 targets:

- 58 million more children, adolescents, and youth would be in school
- > 1.7 million more primary school teachers would have been trained



- Progress made
- Challenges persisting





Climate Change: the good, the bad, the ugly

Lesson Objective: To explain the positive and negative effects of Climate Change

#### Steps to succes

Step 1: To describe the impacts of changing climate

Step 2: To excitain how climate change is having an

Step 3:To evaluate the future of Climate Change



LEUPHANA // UNIVERSITY // SUSTAINABLE UNIVERSITY // CLIMATE PROTECTION

### **CLIMATE COMPENSATED UNIVERSITY**

Leuphana University Lüneburg set itself the goal of becoming a climate-neutral university back in 2007. Goals and measures for a climate-neutral university operation were subsequently developed in a research project, integrated into teaching and implemented in the university's daily operations. Part of their concept for climate neutrality was to also include the neighbouring district in the project. The university finally achieved the goal of climate neutrality in 2014 for Scope 1, Scope 2 and part of Scope 3 and has since been climate neutral for the areas of

#### been climate neutral for the areas of

project. The university linally achieved the goal of climate heutrality in 2014 for scope 1, scope 2 and part of scope 3 and has since



#### **ASU's first Net Zero Energy Building**

The Student Pavilion is ASUS first alternet and Arizona's largest Net Zero energy facility. Simply, this meens our goal is for the building to produce as much electricity as it consumes on an annual basis. We can accomplish this through a combined effort of a neul-insulated building, natural designation, judy efficiency equipment, and building user's participation in energy savery behaviors. The remanaging energy needs will be offer by soils parasis on the roof and from the Memirial Union

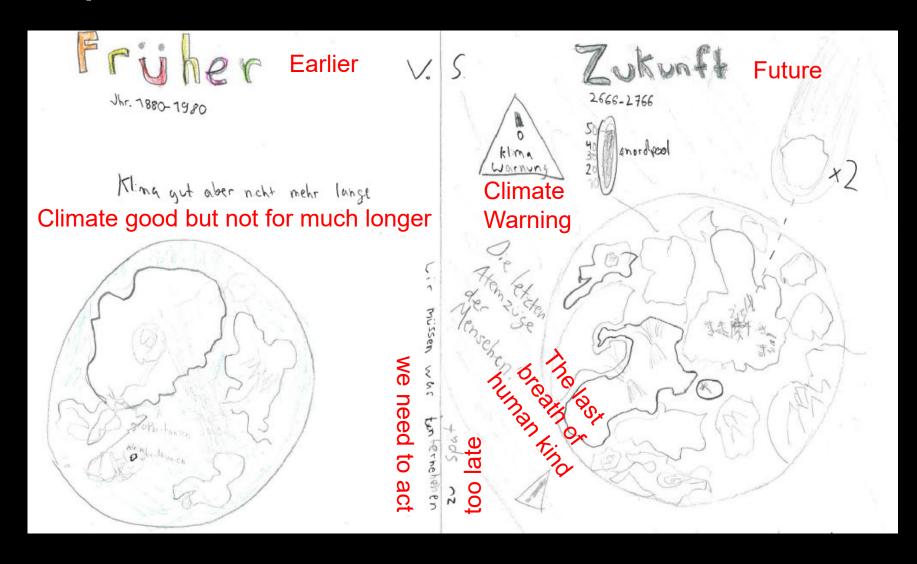
The Studior Freezin is ASCA is to show yet ad Ascard to good this Zoo is way blook, showing the state of the produced as many excepting as a common on yet and the first health of produced as many expectaging is common to the first using accomplish the through a constructed effort of a west insured blooking instanced appropriate plant of the west produced in the state of the state





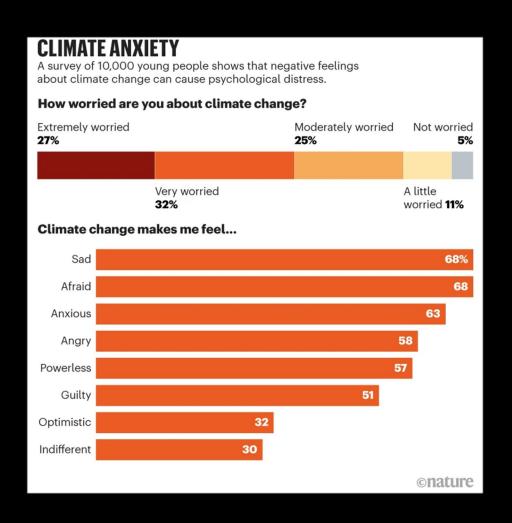


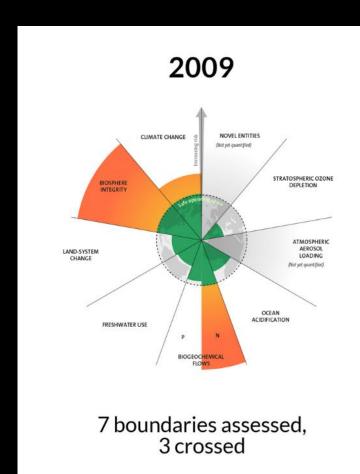


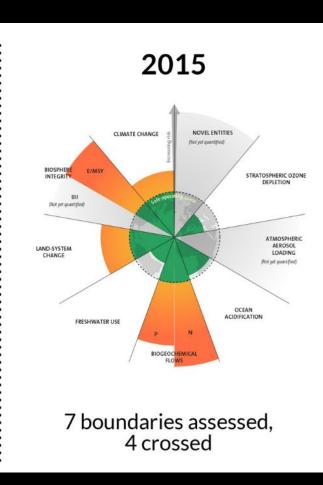


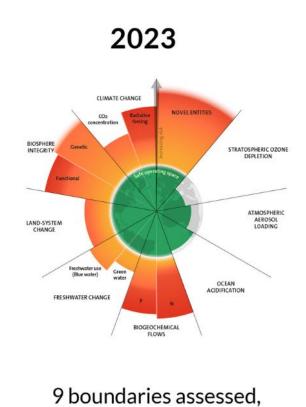




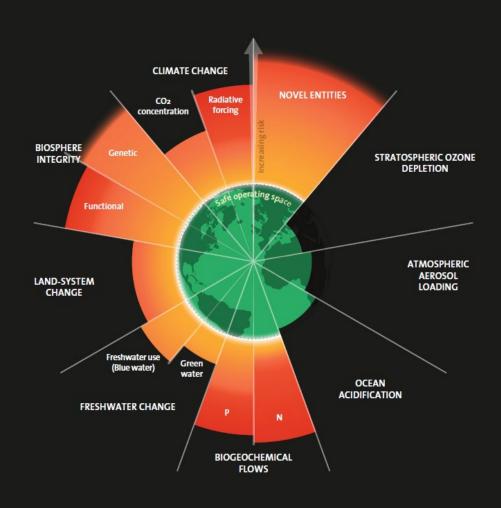




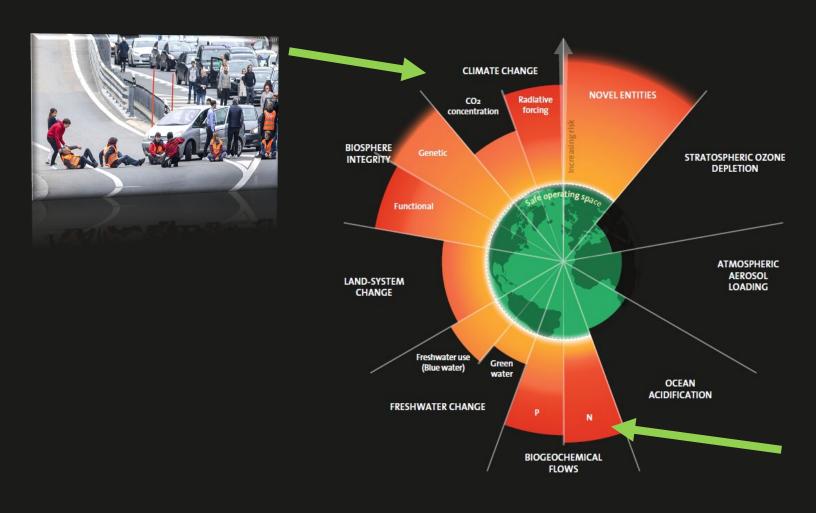




6 crossed

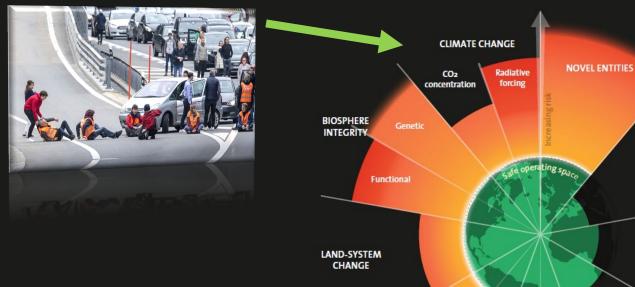


### #2 | CONTESTED AND IDEOLOGICALLY CHARGED



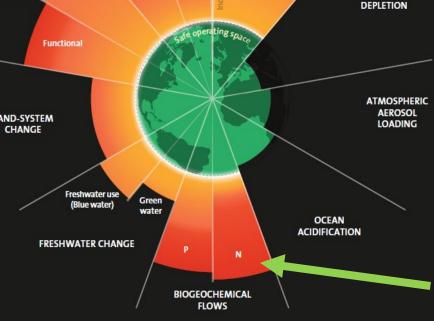


# #2 | CONTESTED AND IDEOLOGICALLY CHARGED



### Affective polarization:

Groups that differ ideologically in their views feel hostile to each other (Bersoff, 2024)



STRATOSPHERIC OZONE

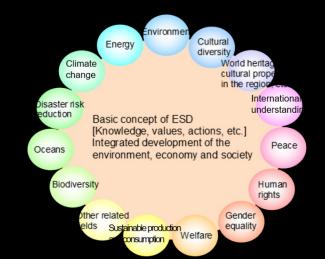


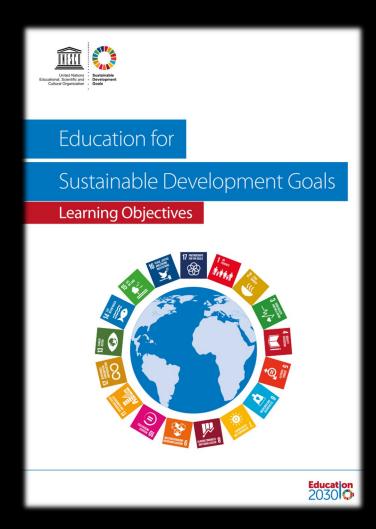
### #2 | CONTESTED AND IDEOLOGICALLY CHARGED



### #3 | CONCEPTUALLY ELUSIVE





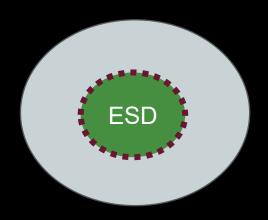


# #3 | CONCEPTUALLY ELUSIVE



What at its core is ESD?

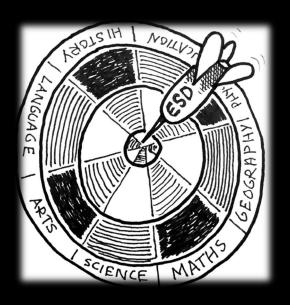
How to avoid "anything goes" and token ESD?



### PERSISTING CHALLENGES



# ESD as relevant quality education





### **WHY NEEDS?**

### Sustainable development

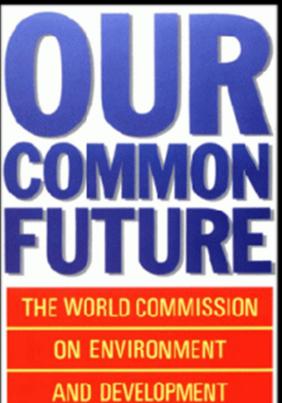
is development that **meets the needs** of the present without compromising the ability of future generations to **meet their own needs**.

It contains within it two key concepts::

- the concept of 'needs', in particular the essential needs of the world's poor, to which overriding priority should be given;
- the idea of limitations imposed by the state of technology and social organization on the environment's ability to meet present and future needs.









Sustainable Development Goals (SDG)

### Our contribution to achieving global goals

Knowledge about the responsible use of resources at home is key to transforming societies towards a sustainable future.

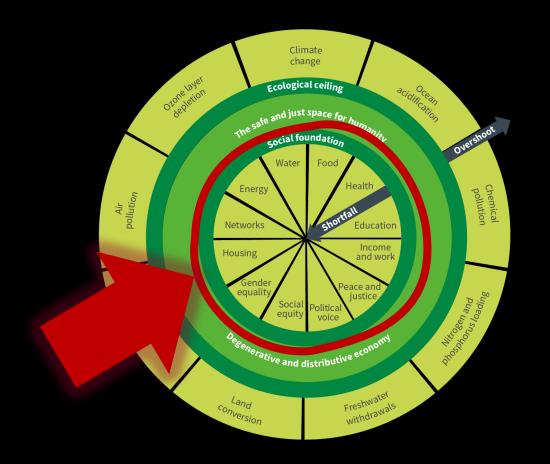
Knowledge about the responsible use of resources at home is knowledge about the responsible use of resources at home is knowledge about the responsible use of resources at home is knowledge about the responsible use of resources at home is knowledge about the responsible use of resources at home is knowledge.

ifhe.org/united-nations





### **NEEDS & SUSTAINABILITY**





### **NEEDS & SUSTAINABILITY**



Manfred Max-Neef



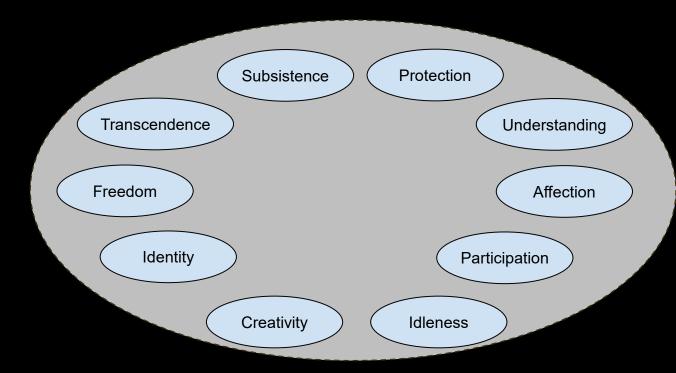


Manfred Max-Neef (1932-2019)

Needs ≠ satisfier



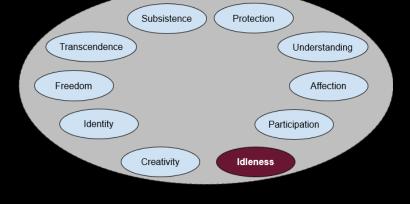
- Needs ≠ satisfier
- Needs are limited and universal





- Needs ≠ satisfier
- Needs are limited and universal
- Satisfiers are infinite and change

# NEEDS AND SATISFIERS: EXAMPLE





After a hard day at work: need for idleness

### **Satisfiers**

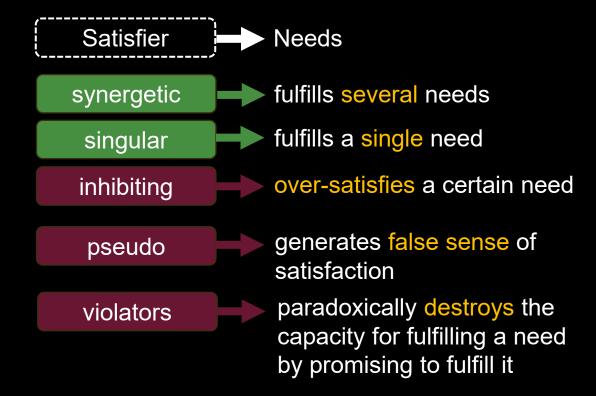
Take piano lessons in community college
Go for a neighborhood walk with a friend
Meditate
Socialize in the community center
Take a bath
Watch random TV show
Shop some clothes
Use drugs

. . .



Manfred Max-Neef (1932-2019)

- Needs ≠ satisfier
- Needs are limited and universal
- Satisfiers are infinite and change
- Not all satisfiers are equally good at satisfying needs



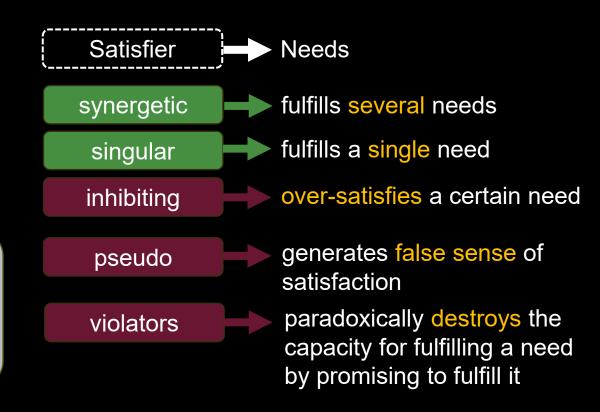


Manfred Max-Neef (1932-2019)

- Needs ≠ satisfier
- Needs are limited and universal
- Satisfiers are infinite and change
- Not all satisfiers are equally good at satisfying needs

Cultural change is, among other things, the consequence of dropping traditional satisfiers for the purpose of adopting new or different ones.

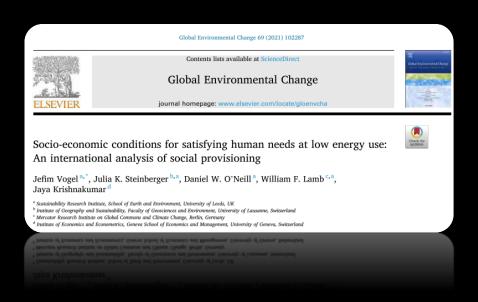
(Max-Neef 1992: 200)



### **NEEDS SATISFACTION IN RESEARCH**

### Used for **modelling**:

 most efficent ways to meet human needs



### Used for **deliberation**:

consumption corridors: define minima and maxima consumption

Ensuring that a person's consumption does not imperil the good life of others MAXIMA consumption

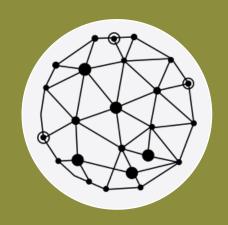
### LIVING IN A SUSTAINABLE CONSUMPTION CORRIDOR

Freedom with responsibility

MINIMA consumption
Basis of the good life for individuals

MINIMA CONSUMPTION Basis of the good life for individual:





Reconnecting

Pedagogy



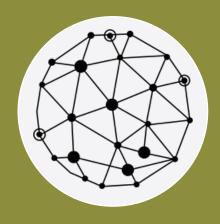
Integrating

Curriculum



Practicing

Setting



Reconnecting

Pedagogy



Integrating

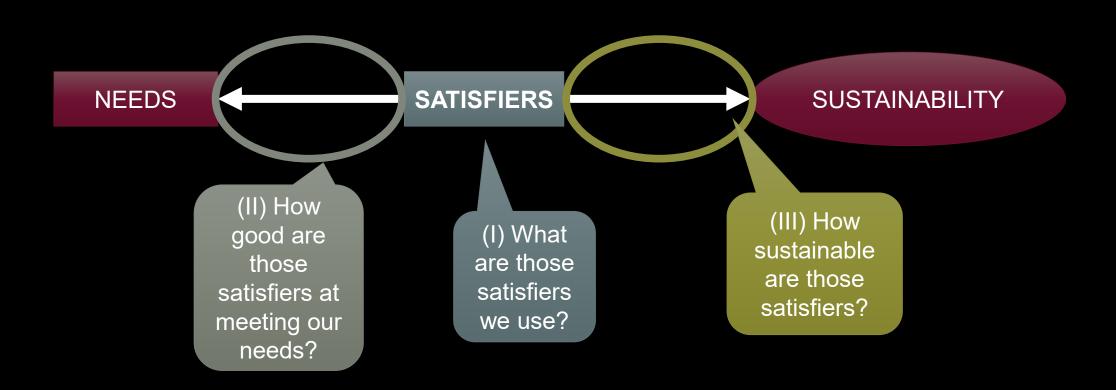
Curriculum



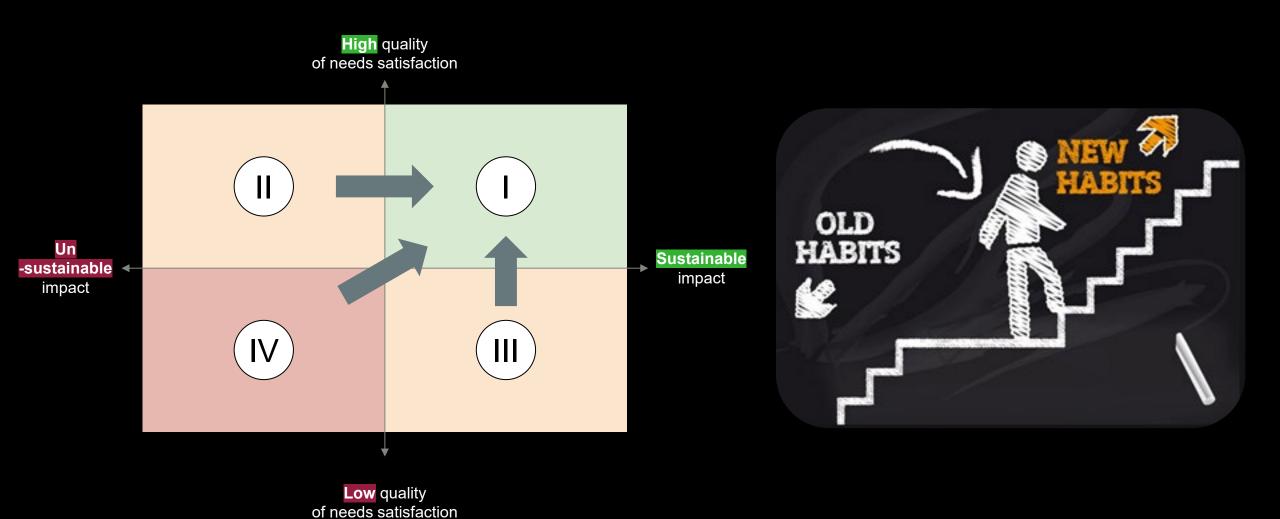
Practicing

Setting

### RECONNECTING | PEDAGOGY | REFLEXIVITY



## RECONNECTING | PEDAGOGY | REFLEXIVITY



### RECONNECTING | PEDAGOGY | MINDFULNESS

- Mindfulness to train introspection skills and awareness of inner states and processes.
- Approach: Modular, accessible, adaptable, playful, "light" and cautious

Mindfulness and education for sustainable consumption: an introduction	
Mindfulness: some fundamental considerations	
Module 1: Personal dimension	1
Bodyscan	
Self-compassion	
Meditation on meeting needs	
Satisfaction, dissatisfaction and material wealth	
Goods and minimalistic lifestyles	
Mindful writing Contentment and misfortune	
Module 2: Social dimension	2
Mindful dialogue	
Compassion	
Jeans journey	
Clothes check	
Moments of happiness	
Mindful meal Act now	
ACTION	
Madula 2: Factorical Dimension	
Module 3: Ecological Dimension	
Ecological breathing space	
Tangerine exercise	
Ecological footprint	
Choosing images Mindful walk	
MINIMIX WOLK	
Evaluation	•
References	

Social Personal Personal

**Ecological** 

Education for
Sustainable Consumption
through Mindfulness
Active Methodology
Toolkit 9





### **RECONNECTING | PEDAGOGY**



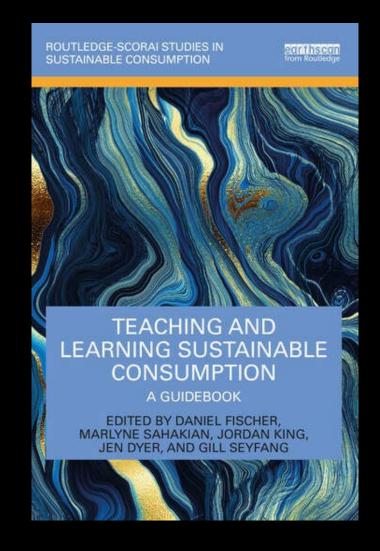


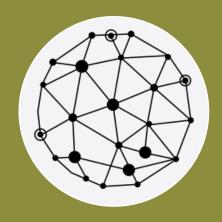
## TEACHING AND LEARNING APPROACHES

**Collection** of 57 diverse examples of innovative teaching from across the world

**Guidebook**: background chapters on

- learning objectives,
- pedagogies & learning theories
- assessment





Reconnecting

Pedagogy



Integrating

Curriculum



Practicing

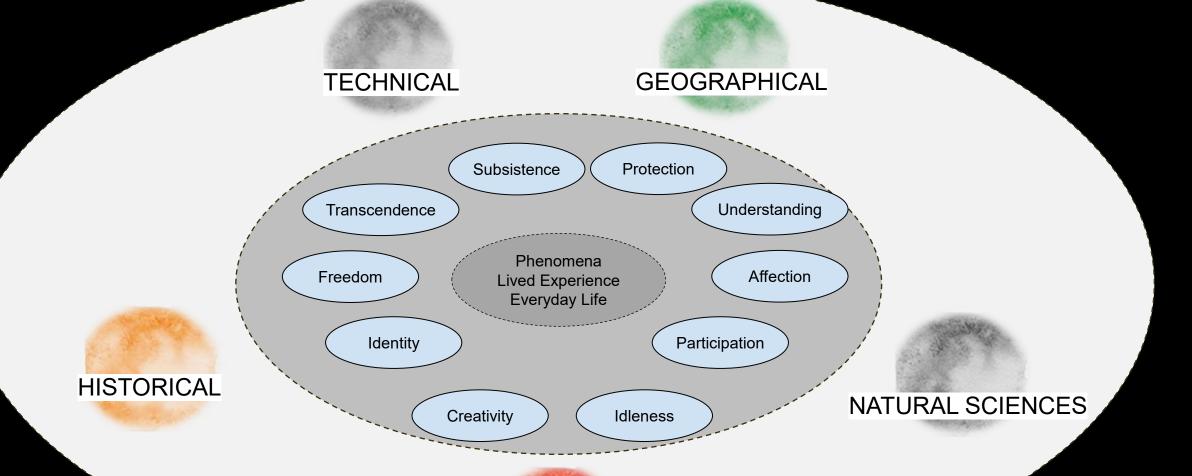
Setting

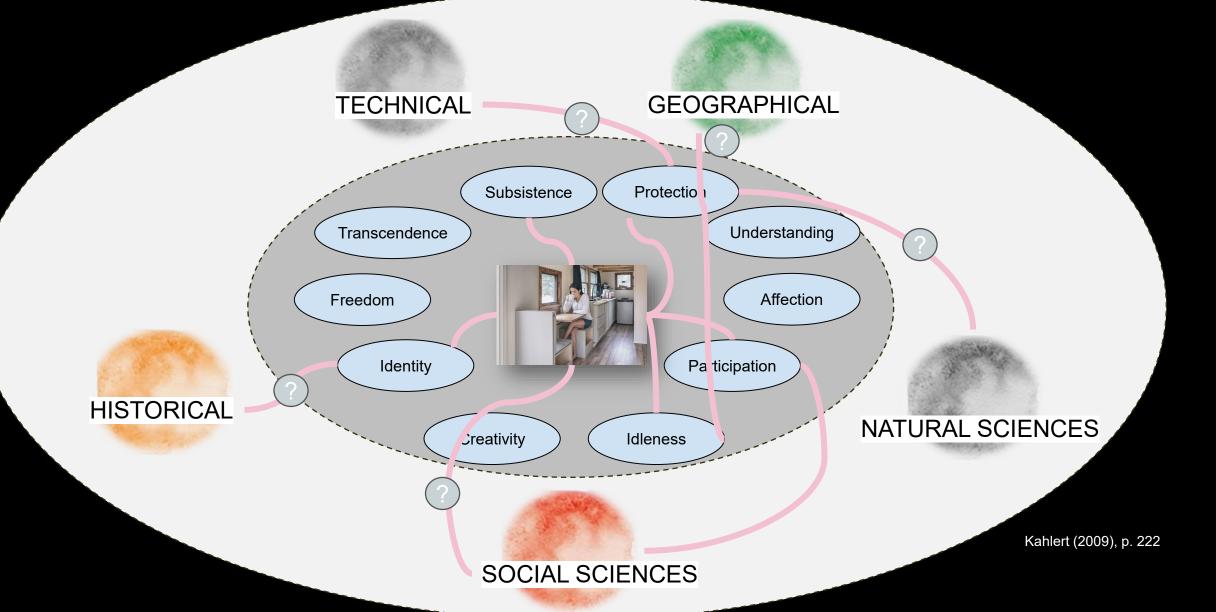
#### INTEGRATING | CURRICULUM

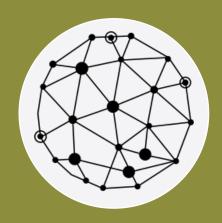
#### **Example**

- Pre-Service Teacher Education
- Subject: Sachunterricht
- Mandatory in all German elementary education
- Integrative subject:
   Science education + social studies, home of "home economics"
- "Multi-perspectivity" as guiding principle









Reconnecting

Pedagogy



Integrating

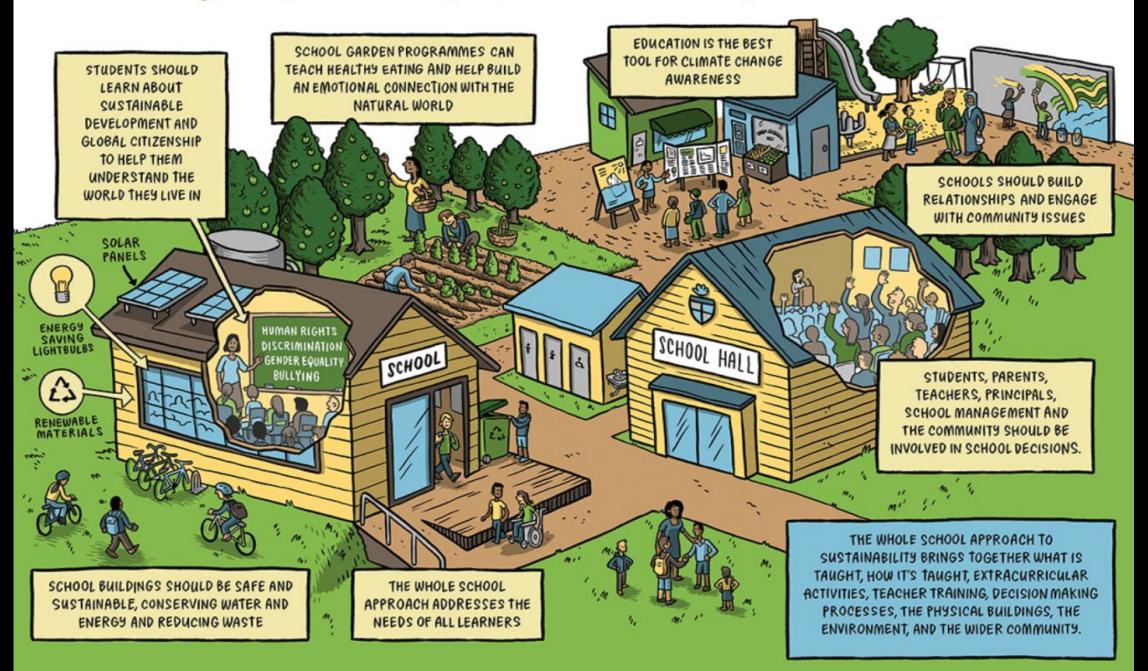
Curriculum



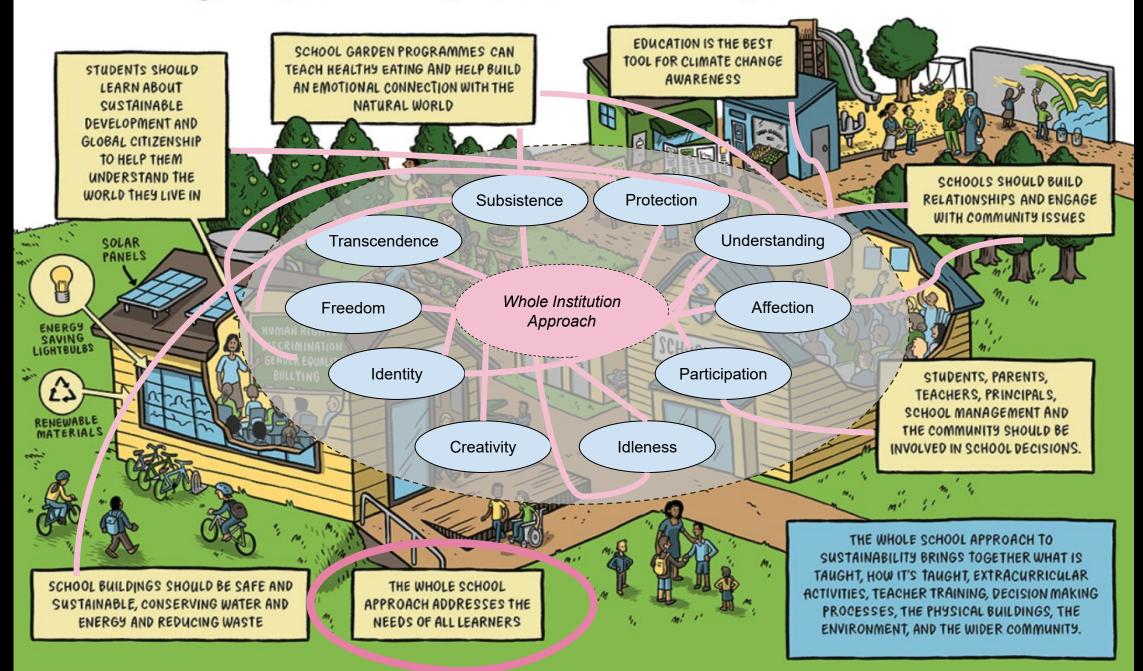
Practicing

Setting

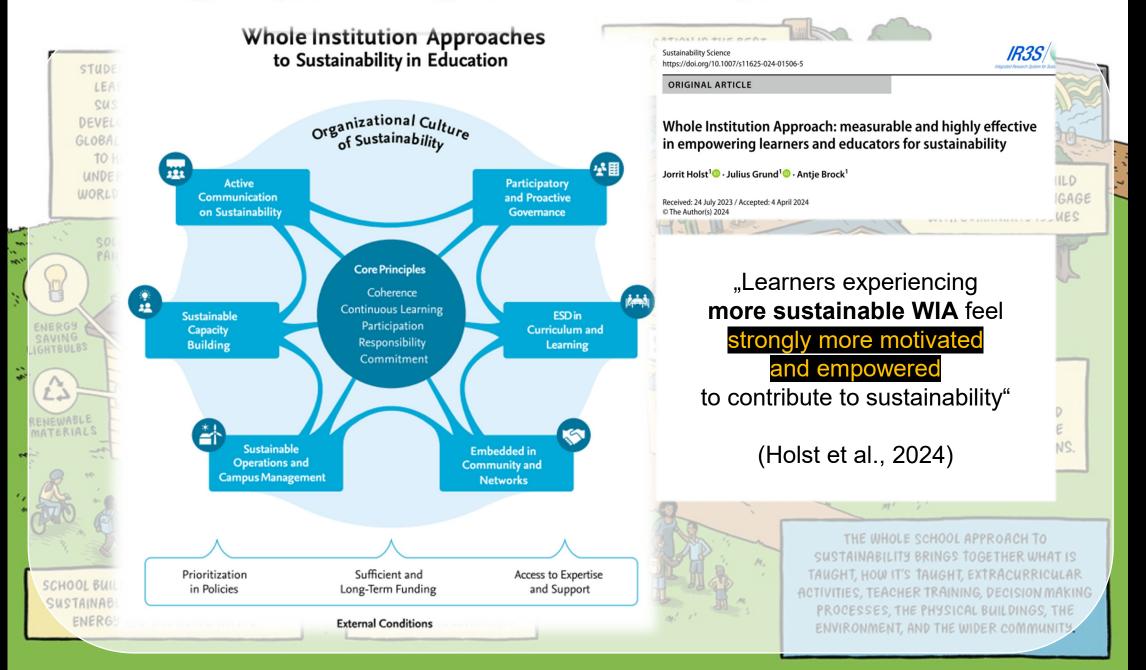
#### Sustainability is not just something to learn, it's something to live!



#### Sustainability is not just something to learn, it's something to live!



#### Sustainability is not just something to learn, it's something to live!



## PRACTICING | SETTING | ASSESSMENT



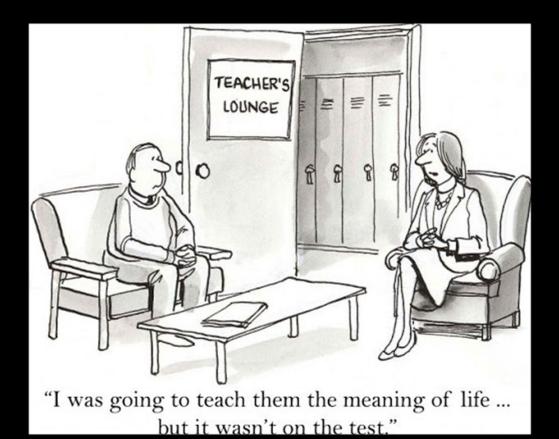
#### PRACTICING | SETTING | ASSESSMENT

#### On average across OECD countries:

- 66% of students reported feeling stressed about poor grades
- 59% reported that they often worry that taking a test will be difficult.
- 55% of students feel very anxious about school testing, even when they are well prepared.



(Pascoe et al. 2020)



How can
assessment not
jeopardize but
better reflect
and support the
aspirations of
ESD?

#### PRACTICING | SETTING | ASSESSMENT

#### **Examples**

- Student-led rubric codesign
- Peer assessment
- Simulation-based assessment
- "Ungrading"

•





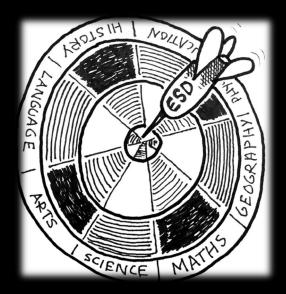
### CONCLUSION



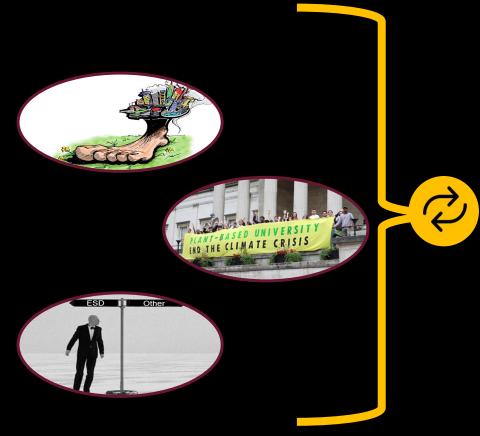




## **ESD** as relevant quality education

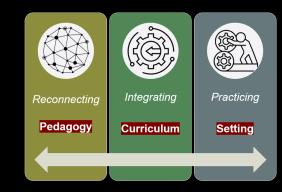


#### CONCLUSION

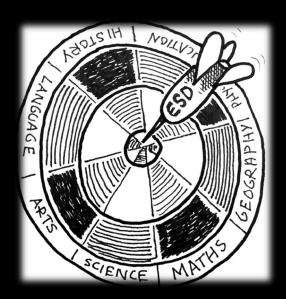




- positive vision
- competition of ideas
- re-essentialize ESD



## **ESD** as relevant quality education



#### **TEACHER EDUCATION: UP TO THE TASK?**

Characteristics of the field? What type of research is being done?

- Review of 158 publications
- Five types of TESD research

Advancing
Visions
for the Field

Designing Learning
Environments

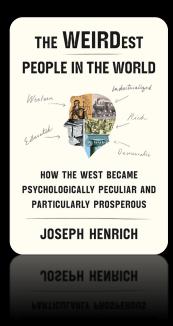
Understanding
Learner Attributes

Promoting Systems
Change

Measuring Learning
Outcomes



#### **TEACHER EDUCATION: MAIN INSIGHTS**



**Diversify** voices

**Embrace complexity** 

Focus innovation potentials

**Sophisticate ESD Theory** 



#### **UNESCO CHAIRS: A LEVERAGE POINT**



#### Family of excellence + purpose



#### **UNESCO CHAIRS: A LEVERAGE POINT**



# **UNESCO** Chair in Higher Education for Sustainable Development (since 2005)

- Local: Leuphana Semester, ESD Hub, ESD Profile Studies for Teachers
- Regional: Collaboration with State Ministry, Regional ESD Network
- National: German Network of UNESCO Chairs, ASPnet, National ESD
- International: UNESCO Consultation, UNITWIN Network





**DANIEL FISCHER** 

daniel.fischer@leuphana.de

unesco

Chair





