

Leaving the Titanic: Learning our way out of global system dysfunction

TIAS Webinar Education for Sustainable Development: Debating principles, promise and practice , JUNE 7th 2018

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Outline

- Systemic Global Dysfunction – Anthropocene – Post-truth
- Critiquing the SDGs
- Re-thinking education and learning – 5 key area's
- Leaving the Titanic – T-learning
- Towards a systemic approach to education with People and Planet in mind



Source: The Guardian

Image: Esteban De Armas/Shutterstock.com

It's official: scientists say we're entering Earth's sixth mass extinction

And humans may struggle to survive it.

FIONA MACDONALD 22 JUN 2015





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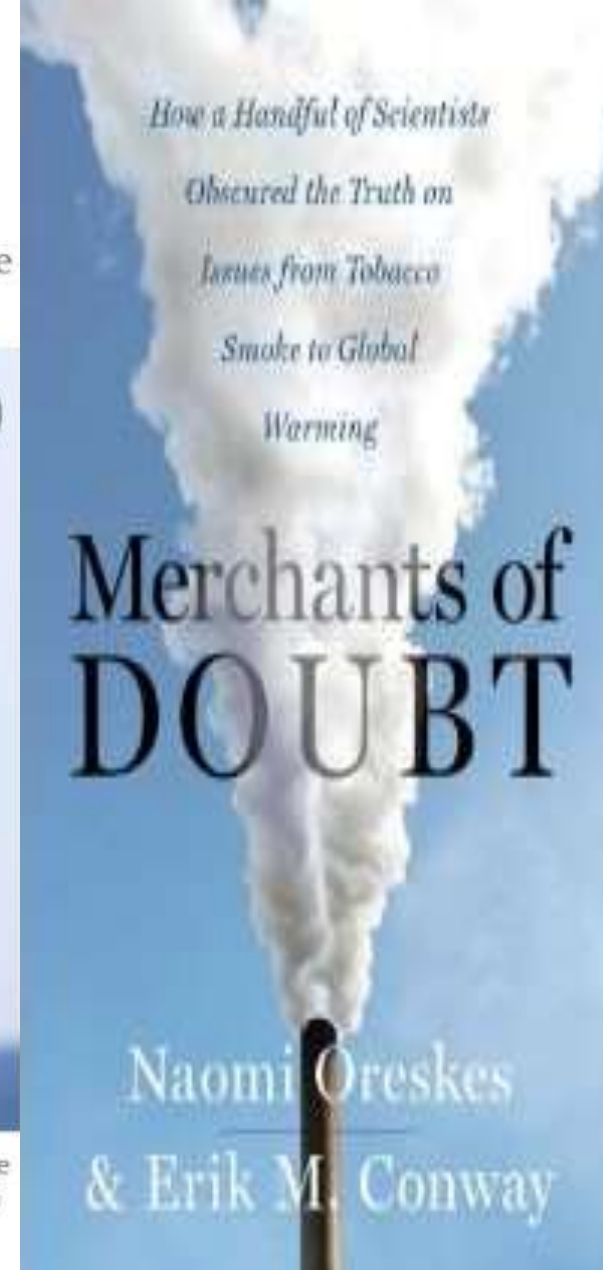
Doubt over climate science is a product with an industry behind it

With its roots in the tobacco industry, climate science denial talking points can be seen as manufactured doubt

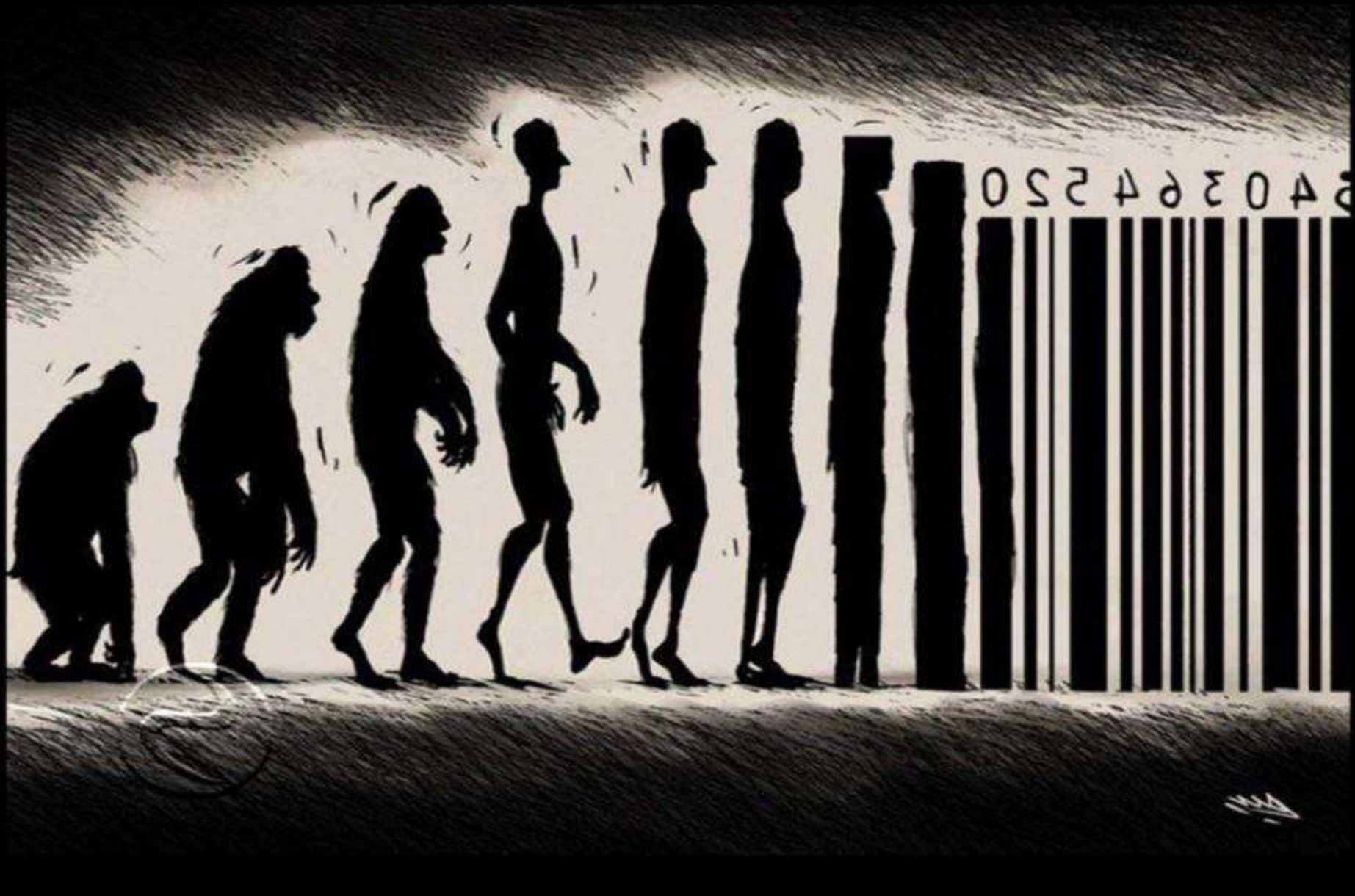


📷 The manufacturing of doubt on climate change science, backed by the fossil fuel industry, has its roots with the tobacco industry's assault on climate science in the 1960s. Photograph: Richard Hamilton Smith/Richard Hamilton Smith/Corbis

Source: The Guardian



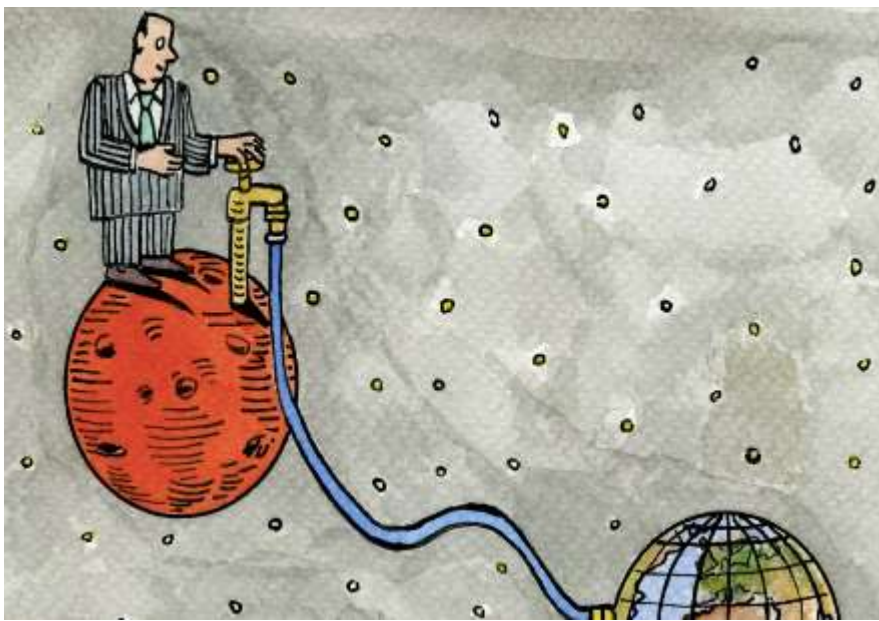




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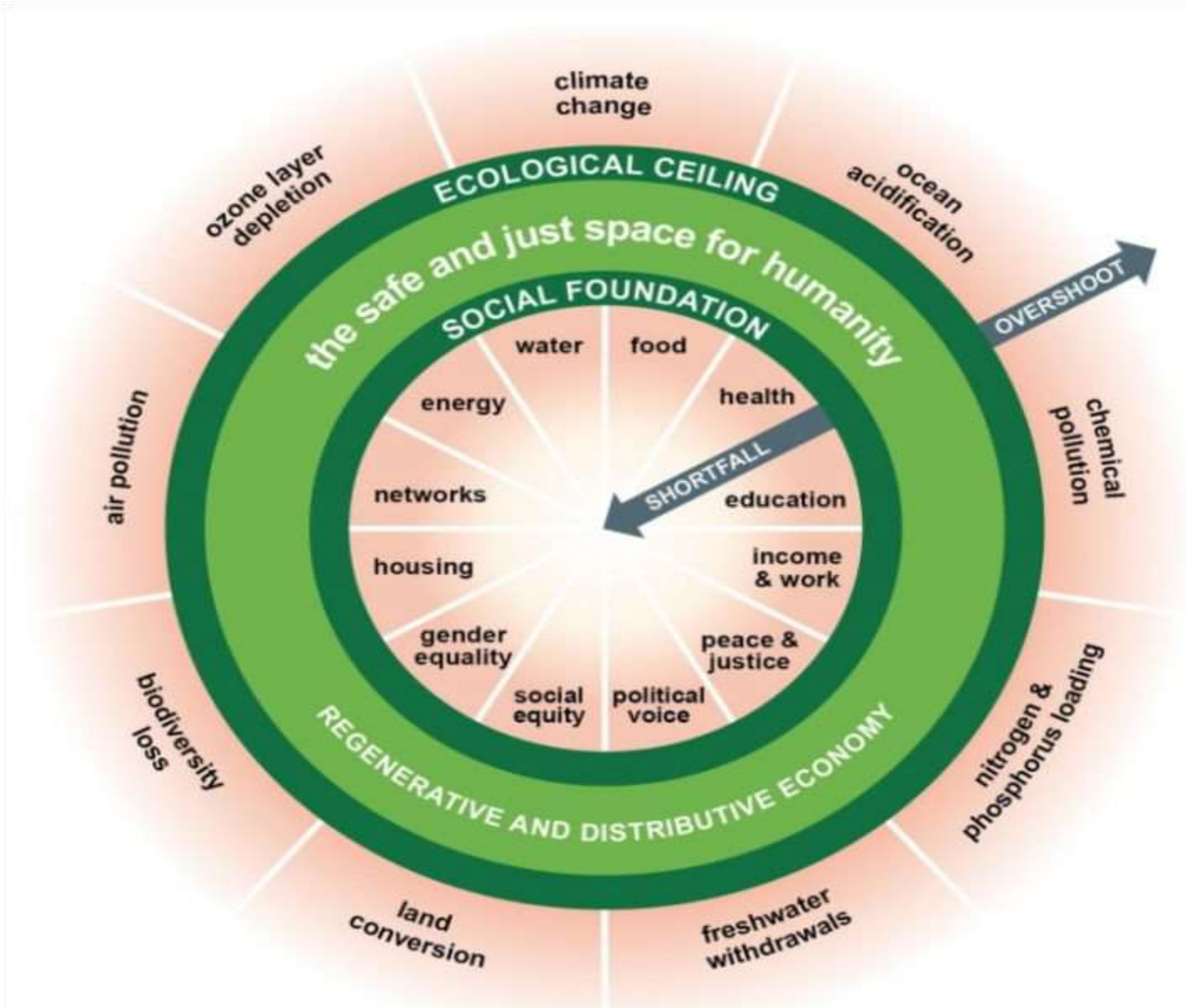
“There may be flowing water on Mars...
But is there intelligent life on Earth?”

“While we marvel at Nasa’s discoveries, we destroy our irreplaceable natural resources – so we can buy pre-peeled bananas and smartphones for dogs”

George Monbiot,
The Guardian, 30-09-2015

Wicked problems in unusual times...

- Complexity and uncertainty
- Confusion, ambiguity, extinction of 'truth,' lack of 'trust' in science and in government
- Hyper-connectivity – erosion of meaning, short attention spans – loss of 'place' – 'viral nonsense'
- Dominant neo-liberal economic forces accelerate inequity and material values that normalize and breathe unsustainability
- Need for continuous learning in a 'reflexive' society



The Doughnut of social foundations and planetary boundaries (Raworth 2017)

We are the students of today
attending the schools of yesterday
being taught by the teachers of the past-
with methods from the Middle Ages
to solve the problems of the future !



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Five interrelated key area's for sustainability science & education

Area 1: Understanding change, complexity and transitions

Area 2: Dealing with values, ethics and moral dilemmas

Area 3: Building agency and transformative capacity

Area 4: Utilizing diversity, uncertainty and dissonance

Area 5: Boundary crossing, systems thinking and
connectivism

Source: Wals, 2014, Wals & Lenglet, 2016

Area 1: Understanding Change, Complexity & Transitions



Doing what we do better vs doing better things...



Adapted from Wageningen UR

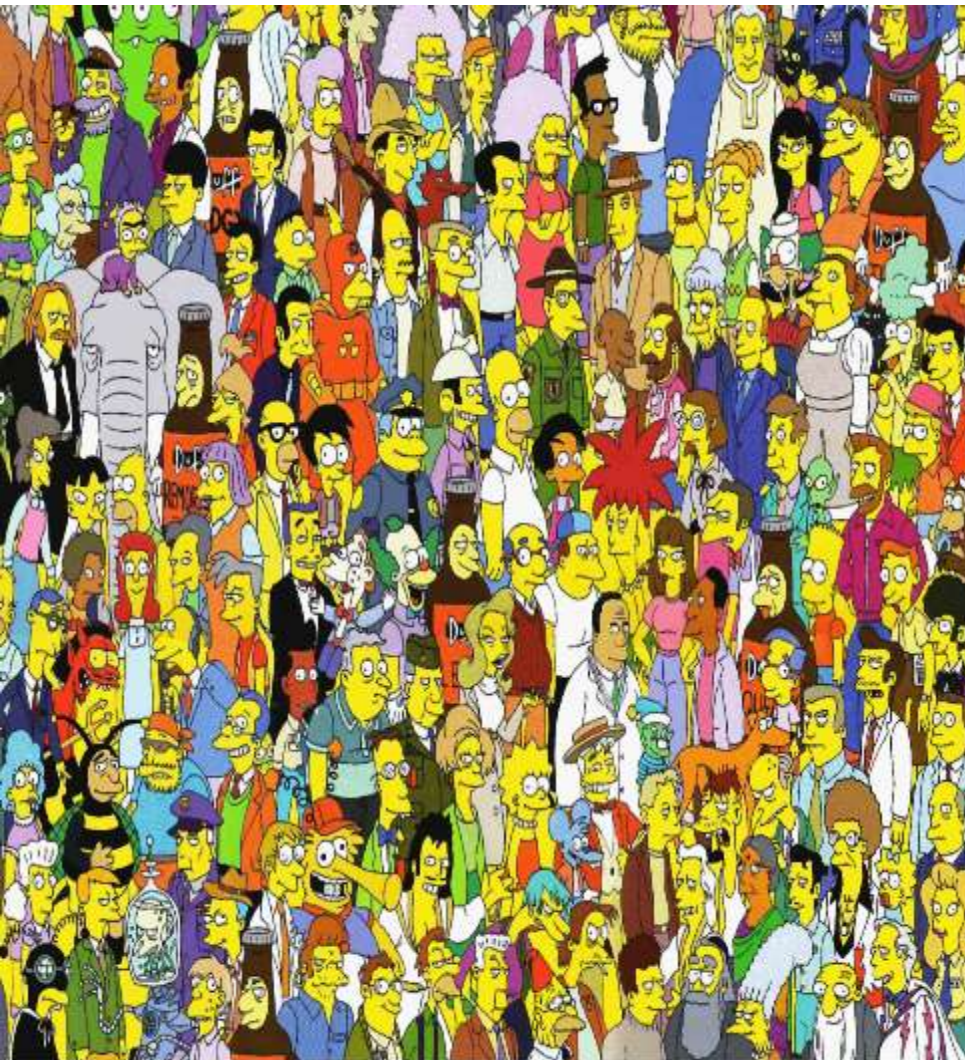
Area 2: Considering ethics and normativity



Area 3: Building Agency and Transformative Capacity



Area 4: Creating Vital Coalitions Utilising Diversity



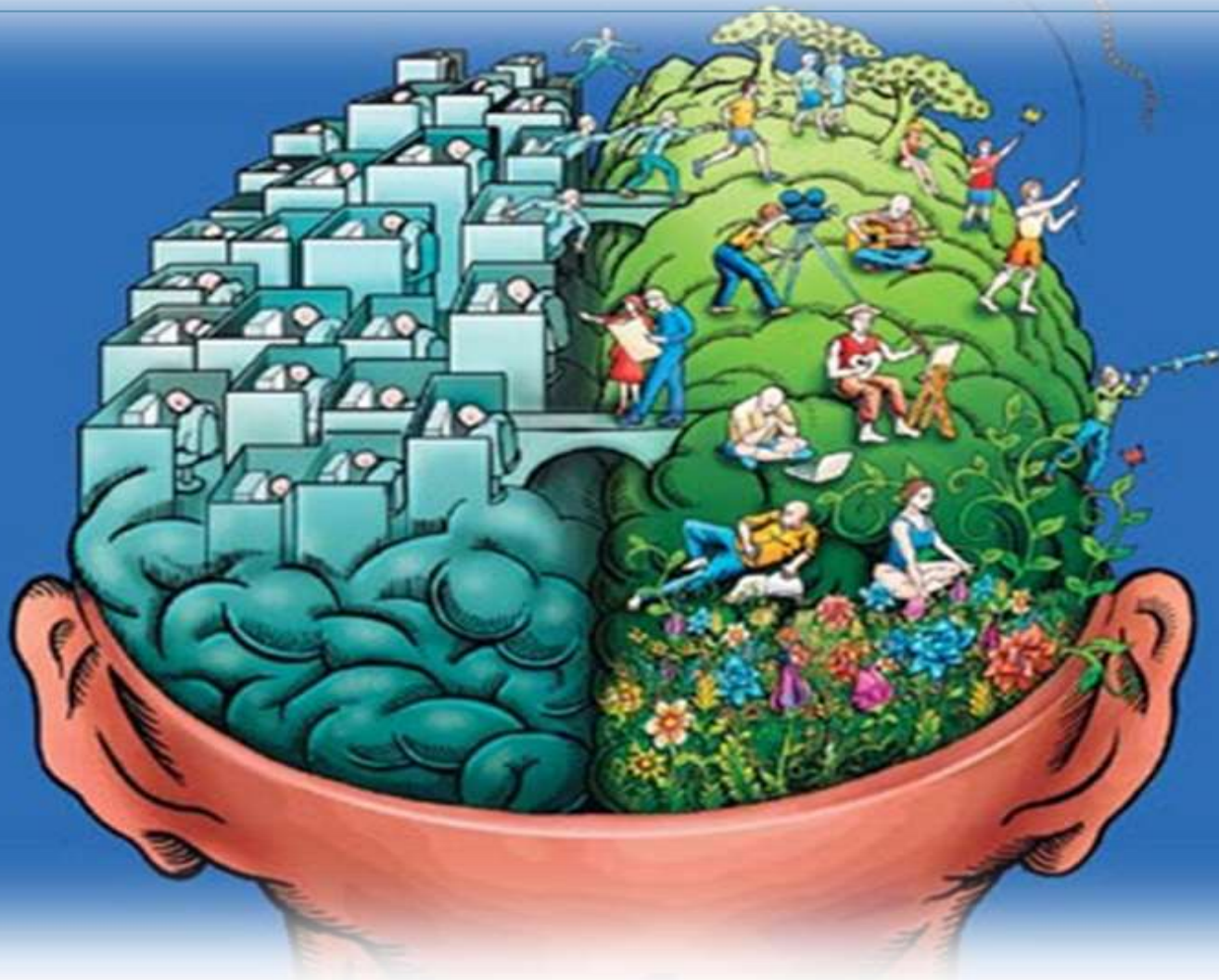
Reportage.com Always Best, Always Stronger

Scott E. Page

THE DIFFERENCE

HOW THE POWER OF DIVERSITY
CREATES BETTER GROUPS, FIRMS,
SCHOOLS, AND SOCIETIES

Area 5: Boundary crossing & seeing connections



Source: creative commons



transformative

psycho-social processes of cognitive and emotional perspective shifts that potentially lead to social-ecological change and the affirmation of life

transgressive

intentionally generates critical thinking, collective agency and changed practices while explicitly challenging normalised systems that have become oppressive

transdisciplinary

crossing boundaries to co-create and affirm knowledges in iterative and collaborative ways that contribute to changes in action and practice

Source: www.transgressivelearning.com



Indicators of T-learning?

- Expressions of collective action and 'small changes' that are situated within larger change trajectories
- Resistance, disruption and re-framing as expressions of agency
- Invisible silences , tensions, contradictions or challenges surfacing



- Problem solving and development of new skills
- Transgressing boundaries, norms or that which has been normalised
- Reframed narratives and social movement for the common good – at multiple levels (intersecting)

Indicators showing people are creating a world that is easier to love and live in together

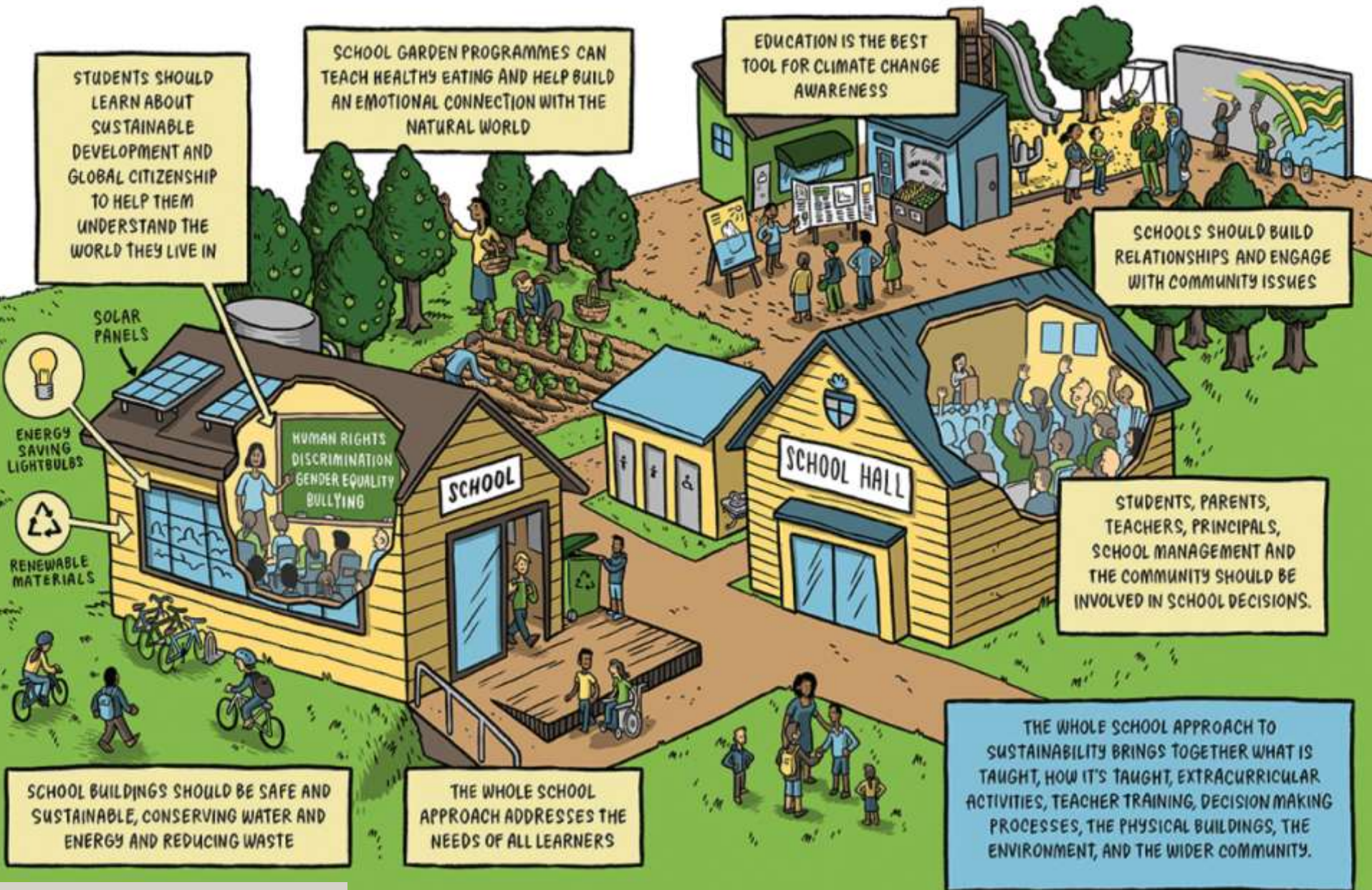
- Signs of crossing boundaries
- Signs of conflict/tension
- Signs of conviction
- Signs of empathy
- Signs of attentiveness
- Signs of listening/attentiveness
- Signs of creativity, innovation, imagination
- Signs of intuitive action
- Signs of new friendships
- Signs of a sense of purpose



Sustain“abilities”

Sustainability competence	Examples of sustain‘abilities’
Dynamics and content of sustainability	Sustainability literacy Systems thinking Adopting an integral view <i>Learning to know</i>
Critical dimension of sustainability	Questioning hegemony and routines, Analysing normativity Disruptiveness, transgression <i>Learning to critique</i>
Change and innovation dimension of sustainability	Leadership and entrepreneurship Unlocking creativity, utilizing diversity Appreciating chaos & complexity Adaptation, resilience Empowerment and collective change <i>Learning to make change</i>
Existential and normative dimension of sustainability	Connecting with people, places and other species Passion, values and meaning-making Moral positioning, considering ethics, boundaries and limits <i>Learning to be, learning to care</i>

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

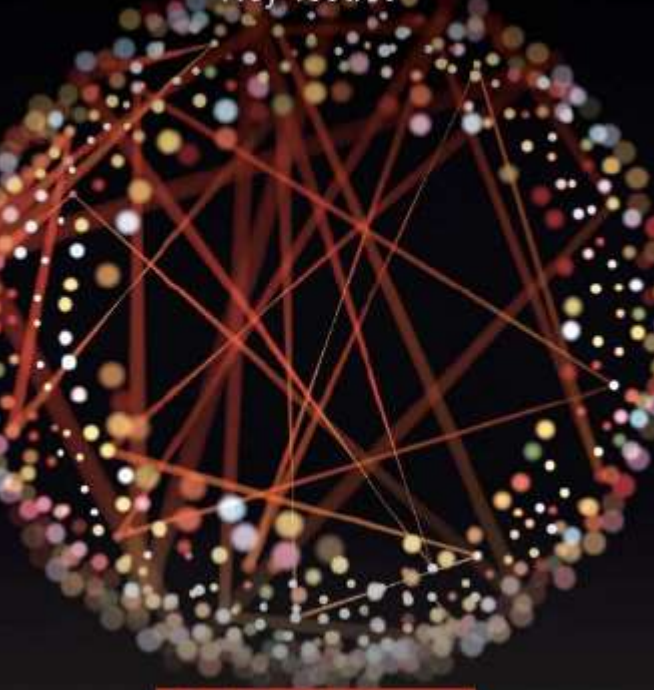


Some suggestions

- Look for boundary crossing opportunities
- Adopt a systems approach – e.g. by linking with SDGs
- Utilize diversity and multiple perspectives – looking for synergy but also for contestation and conflict
- Move beyond increasing awareness and understanding
- Ask: what am I/are we strengthening in society, what am I/are we ignoring or weakening? What needs sustaining? What needs disrupting?
- Dare to be counter-hegemonic and disruptive!

Sustainability Science

Key Issues



Key Issues in Environment
and Sustainability

earthscan
from Routledge



Source: Banksy

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