The world beyond 2015: is HE ready? From cosmetic reform towards a whole system transition

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United Nations • Educational, Scientific and • Cultural Organization •



United Nations Decade of Education for Sustainable Developme (2005-2014)



United Nations Decade of Education for Sustainable Development (DESD, 2005-2014)

Review of Contexts and Structures for Education for Sustainable Development 2009



Shaping the Education of Tomorrow:

2012 Full-length Report on the UN Decade of Education for Sustainable Development Sustainable Development/Sustainability has become a useless concept: it means so many different things that it means nothing, people with opposing viewpoint all embrace it, rendering is a de-politicized/neutered idea that won't change the world







Sustainable excitement.

Erosion of trust in science?

- GMO-foods are inevitable...
- Runaway (?) climate change...
- Calcium supplements for women...
- Should men >50 be tested for prostate cancer?
- Is organic sustainable and locally grown better?
- Are vegetables grown in cities healthy?

We are drowning in information
while starving for wisdom' E.O. Wilson,
1998, p. 300)





Post-normalism

- Complexity
- Uncertainty and indeterminacy
- Contestation and controversy extinction of 'truth'
- Shallowness and hyper-connectivity erosion of meaning
- Emergence reflexivity





simp le

EASY TO SOLVE

A clear problem with

Summary

Predictable Properties Straightforward **Obvious**

Summary a clear solution

The problem and the solution are not clear but can be understood with time

- Many familiar elements
- Hidden root courses

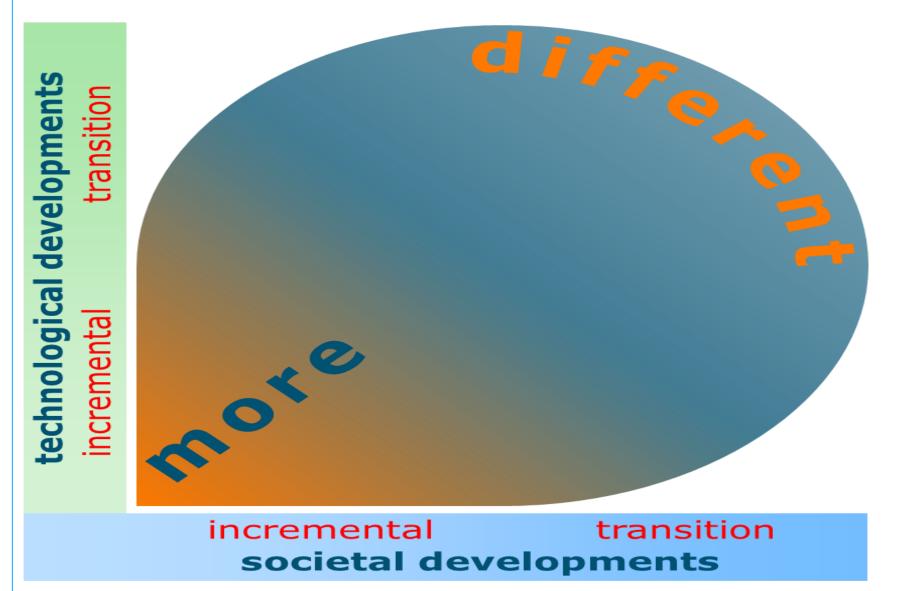
RESISTS SOLVING

- Properties Non-linear
 - Inter-operating parts affect
 - Each other

RESISTS DEFINING

Problem and solution not

- understood and keep
- Summary shifting when we try to define them
- Ambiguous, chaotic Properties
 - Many stakeholders with
 - Conflicting perspectives
 - Many elements are hidden
 - and unknown
 - No right/wrong solution
 - Not-quantifiable
 - No precedents

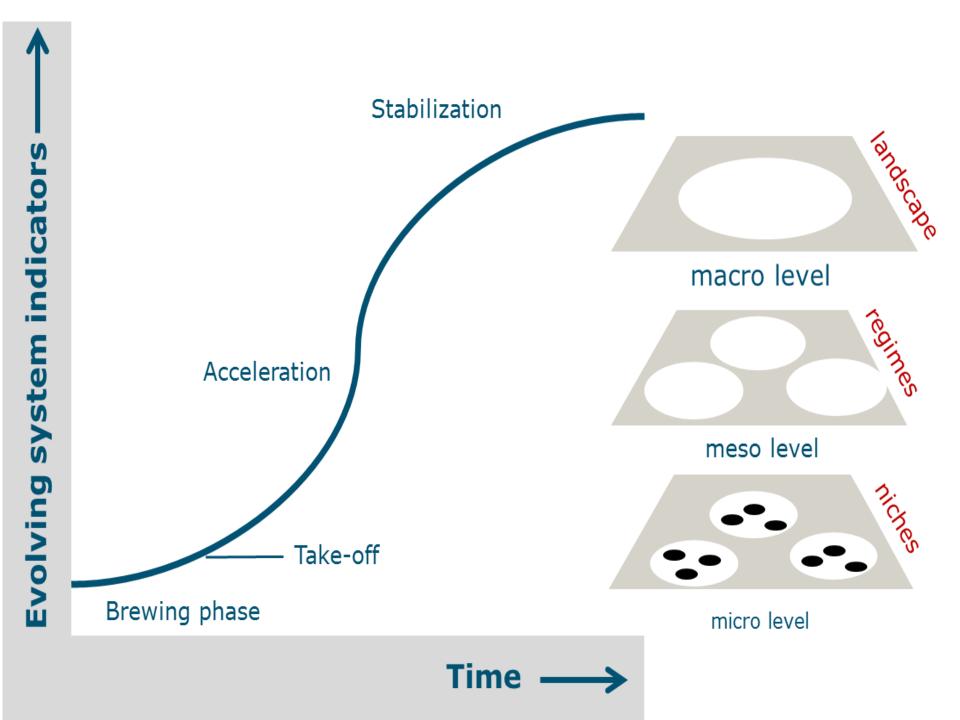


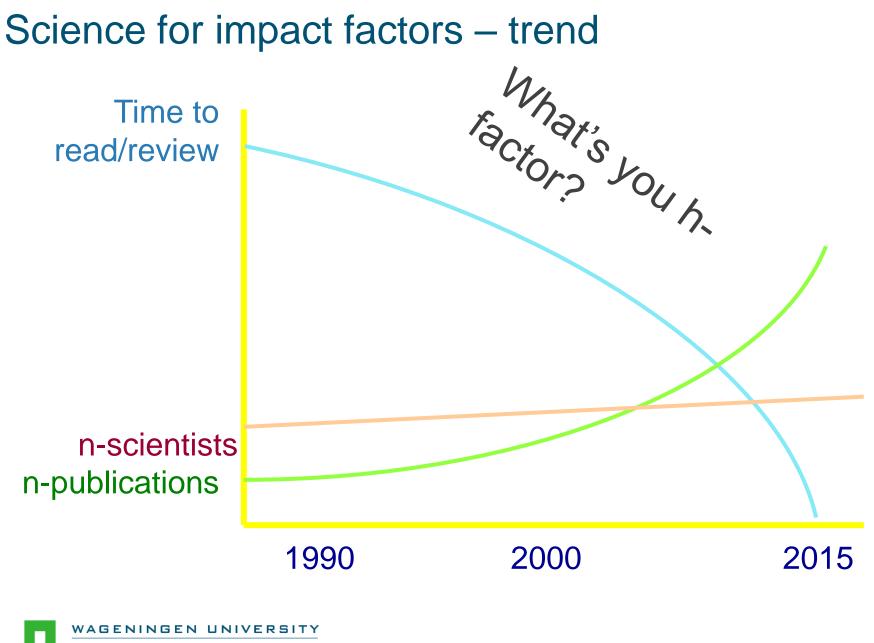
Based on Kropff, 2012





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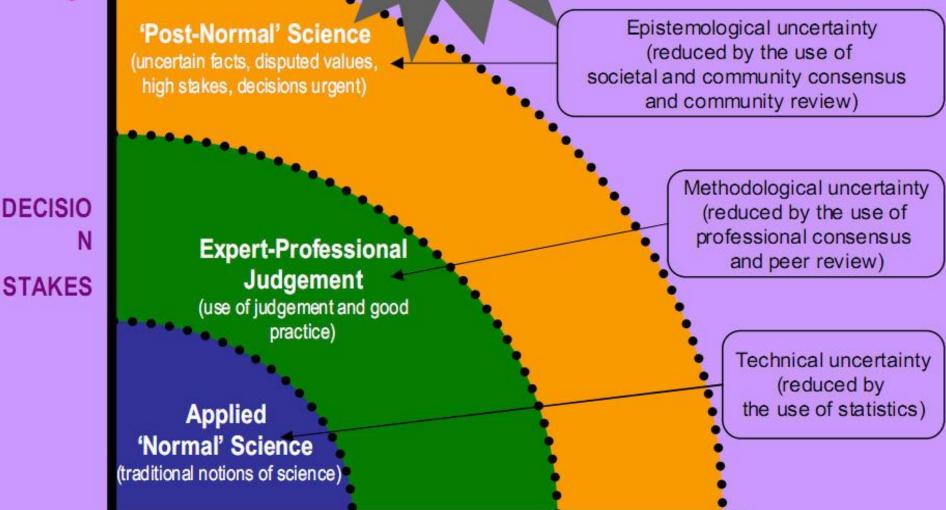




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Source: Funtowicz, S. O. and Ravetz J. R. (1992) / S. Vohra. 2011

High



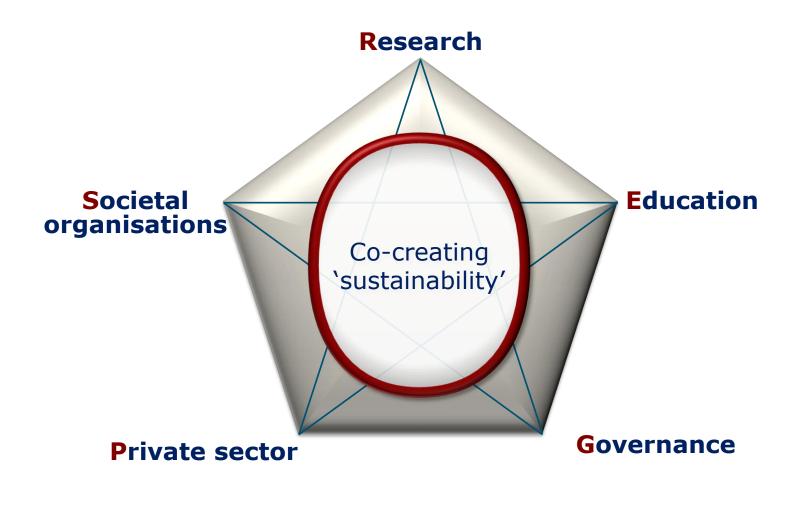
ignorance

Low

LEVEL OF UNCERTAINTY

High

The Big Five





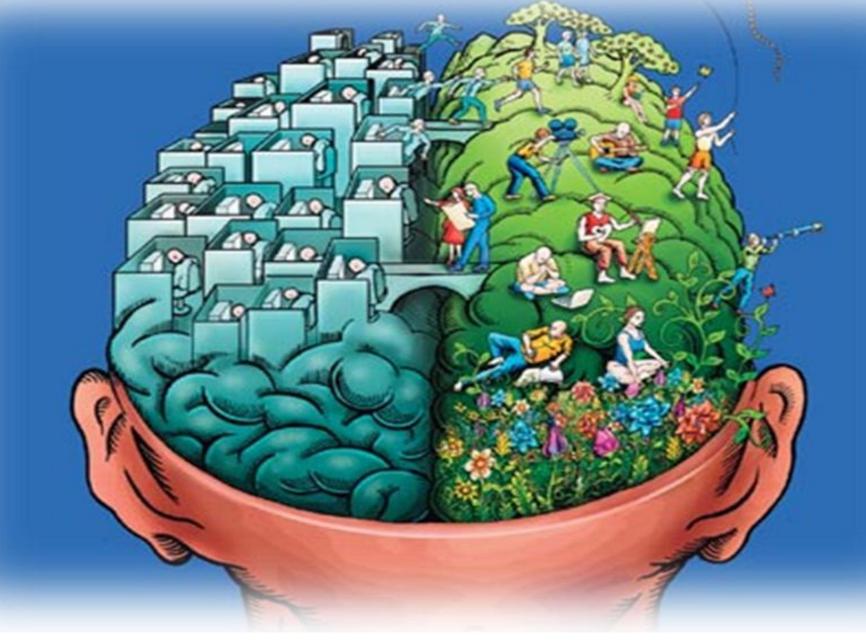
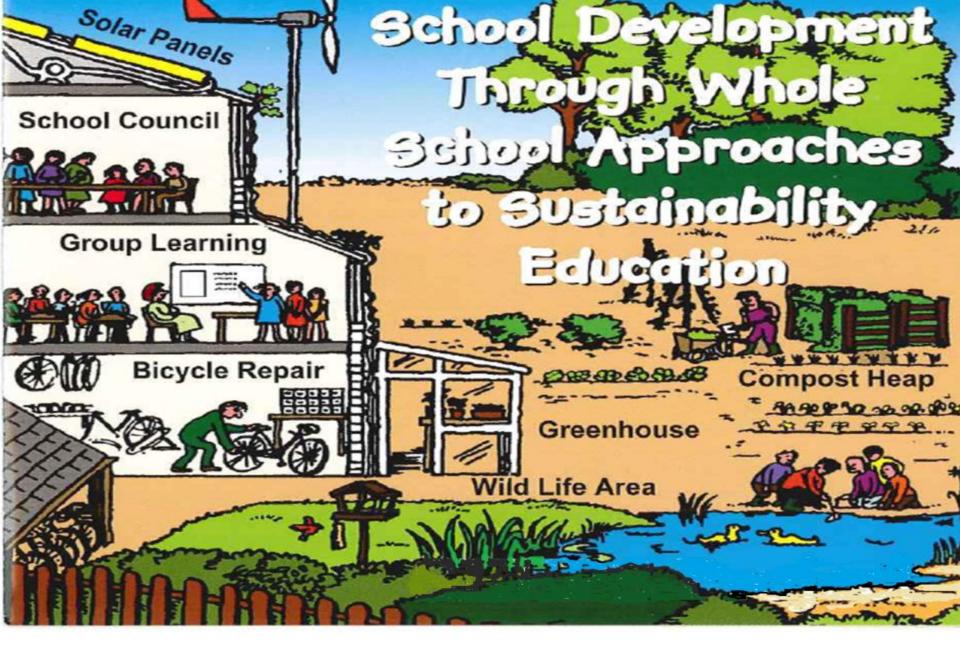




Illustration by VaXzine





Sustain"ability"

- Understanding sustainable development
- Systems thinking
- Adopting an integral view
- Questioning hegemony and routines
- Analysing normativity
- Considering ethics

Dynamics of SD

Critical dimension

Change & Innovation

- Leadership, agency and entrepreneurship
- Unlocking creativity, utilizing diversity
- Appreciating chaos & complexity
- Fostering collective change



	Science as commodity	Science as community
Research	Science for Impact Factors	Science for Impact
orientation	Strong emphasis on publication targets to	Strong emphasis on societal relevance targets to be
	be met by publishing in ISI journals	met by positive feedback by extended peers that
	preferably with a high Impact Factor	include those who are to benefit from the research
Educational	Efficiency	Authenticity
orientation	Students are viewed from an economic	Students are viewed from a human development
	perspective as clients, input, throughput	perspective as citizens who want to develop
	and output, who need to get their	themselves and want to engage in meaningful
	diploma's within the time allocated at	learning around authentic issues that cannot be
	minimal costs	lectured
	Instrumental – transfer of pre-determined	Emancipatory - high degrees of self-determination,
	and relatively fixed outcomes	space for transformation and co-created and
		emergent outcomes
Business	Focus on continuous growth	Focus on dynamic quality
orientation	The university wants to or is forced to (as	The university invests in community relations and
	governments withdraw public money) to	community outreach seeking to become indispensible
	get more money out of the market.	and an integral part of the community which in return
	Faculty get acquisition/ 'billable days'	is willing to support the university.
	targets.	
Epistemological	Empirical rationalism	Socio constructivism
orientation	Finding an objective truth. Establishing	Co-creation of knowledge, inter-subjectively
	causality. Single truth exists, can be	validated. Pluralist. Not one single 'truth' but many
	known. Maximize predictability,	subject to interpretation. Uncertainty as a given.
	management and control. Minimize	Facts and values are inseparable.
	uncertainty.	
Type of	Scientific and technical knowledge that	Phronesis: ethically practical knowledge that is
knowledge	can (allegedly) be generalized across	indispensible for the work of making context specific

"We call upon world leaders to support the transformative role of higher education towards SD, and commit to work together and further promote transformative learning and research by encouraging multi-stakeholder, multi-sector partnerships, communicating examples of sustainability practices, and recognizing the essential role and responsibility of higher education institutions towards creating sustainable societies."

(Nagoya Declaration on Sustainability in HE)





Key Points

- Sustainability requires space for systems thinking, integrative design, place & identity, and multiple ways of knowing and associated competences
- Blurring the boundaries between institutional, communitybased and workplace learning is essential (hybrid learning in vital coalitions)
- Critical thinking (e.g. questioning taken-for-granted values, behaviours and systems), diversity and participation, and 'unlearning' are essential components of sustainability
- HE needs to become a breeding ground, innovation node and centre of expertise for education, research and outreach for transformation and a transitions towards sustainability







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