

Many improvements in social wellbeing have been made at the particular cost of natural capital.

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risk of being short term because natural capital costs are too high → integration of capital assets for inclusive wellbeing

DETERMINANTS Capital assets

		numan capitai	manuractured capital	Knowledge capital
 ▶ essential for sustainability as so many of the challenges facing SD require people working together > one metric = trust > unpotic 	a services paid for (like fuels, ion materials, food) social value (like ozone layer, nation, clean air)	 ▶ optimal when people are: {healthy well-educated skilled 	 full costs not visible in developed regions: goods & services areas more developed areas 	 inevitably incomplete and fallible in the face of the complex realities of SD adaptive innovation broad access to inventions



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⁷ Even a careful adaptive approach with excellent monitoring has its limitations:

Social-environmental systems characterized by non-linearities & tresholds

↓ even small perturbations

regime shifts

= large, persistent and abrupt changes in the state & functioning of systems

> key to understanding social aspects of systems

F.ex. Poverty traps:

people need certain combinations of assets before their own hard work can help them get ahead > critical asset tresholds must be crossed to escape poverty

Evaluating complex systems

- > <u>analytical models</u> (f.ex. Ecosystem Services models, Life Cycle Assessments): provides decision makers with information about trade-offs & co-benefits
 - \rightarrow helps to make more informed choices, does not simplify decisions
- > accounting & indicator systems (f.ex. Gross External Damages, Inclusive Wealth Index): helps communities, corporations, governments and ngo's
- \rightarrow track their success in managing social wellbeing

Natural capital deficits and degradation play a central role in many of today's deepest poverty traps

The development trajectory for the world overall is (barely) increasing its inclusive wealth per capita and thus is (barely) sustainable

> CFCs ChloroFluoroCarbons GHGs Green House Gasses uncertainties

B. Russell - The conquest of happiness (1930)

All our separate tastes and desires have to fit into the general framework of life, if they are not to become a source of misery.

If they are to be a source of happiness

they must be compatible with health, with the affection of those whom we love, and with the respect of the society in which we live.





Think broad and recognize the limits of your view



Embrace complexity



It is better to do nothing than to do harm.

Half the useful work in the world consists of combating the harmful work. A little time spent in learning to appreciate facts is not time wasted, and the work that will be done afterwards is far less likely to be harmful than the work done by those who need a continual inflation of their ego as a stimulant to their energy. Nothing is more fatiguing nor, in the long run, more exasperating than the daily effort to believe things which daily become more incredible. To be done with this effort is an indispensable condition of secure and lasting happiness.



- > Explore multiple government responses
 - > question traditionally dominant role of national government
 - in governance processes

 - > question ability of local users always to produce effective homegrown responses
 - > multilevel problems require contributions from actors operating at all those levels
- ► Recognize that knowledge is power (MAP 4)
 - > sharing of knowledge = counterweight to existing power asymmetries in society (MAP 4)

BOX - Mindsets of sustainability leaders



> System thinkers

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- > open minds
- > multi-disciplinary perspectives
- > inclusive
 - \rightarrow recognize all they don't know and respect other's different ways of knowing & learning
- Deeply reflective & adaptive thinkers
 - > they recognize that their own ways of thinking are unlikely to be how the world really works
 - \rightarrow they cocreate with their communities
- > Self-aware
 - > deep empathy & compassion for wellbeing of others, around the world and over time
- > Creative & innovative for change at scale
 - > transform social-environmental systems through a process of change that can cascade across generations & across the globe
 - → make a difference not just for themselves
 - \rightarrow pursue those changes with patience

△ Science and technology are important but by focusing too much on the potential benefits of more knowledge and innovation we run the risk of becoming complicit in the continued depletion of our assets

 \mathbf{Y} = uncertainties

Personal actions are also critical. Scientific analysis should also lead the way to much broader exchanges, deliberations and informed agitations







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uncertainties