

2024 年(第 33回) ブループラネット賞 受賞者記念講演会

2024 Blue Planet Prize Commemorative Lectures

#### ロバート・コスタンザ教授

#### 講演スライド集

#### 持続可能でウェルビーイングな 未来を創るために

Professor Robert Costanza

Slides for the Lecture

Creating a Sustainable

Wellbeing Future

### 2024 Blue Planet Prize Commemorative Lectures



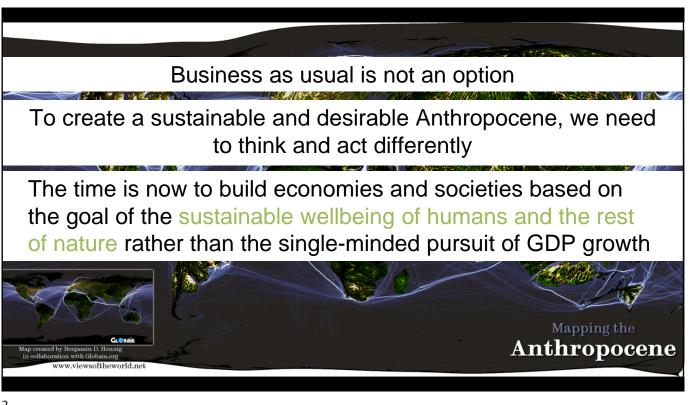
# Creating a Sustainable Wellbeing Future

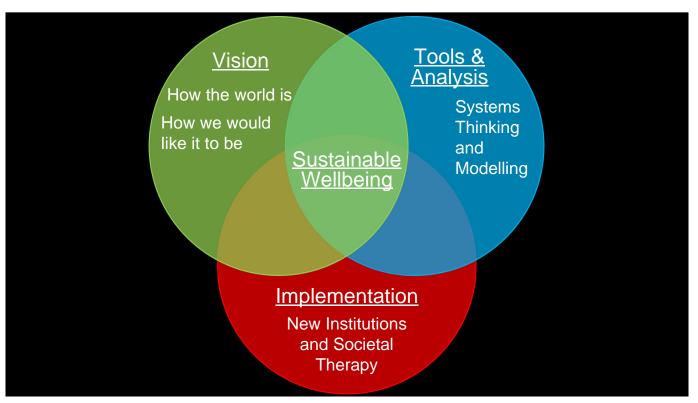
Prof. Robert Costanza Professor of Ecological Economics, UCL

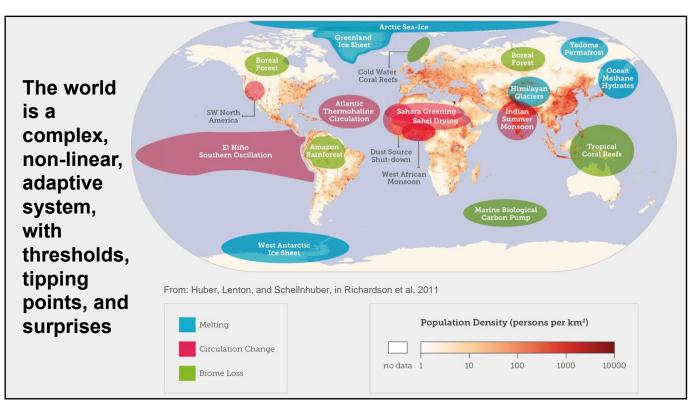
Editor in Chief, *The Anthropocene Review* 

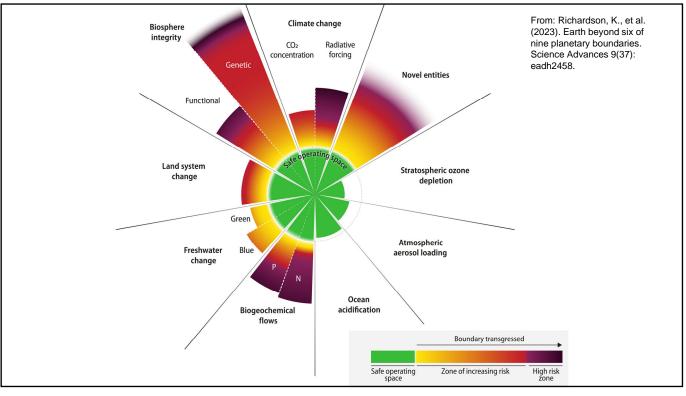


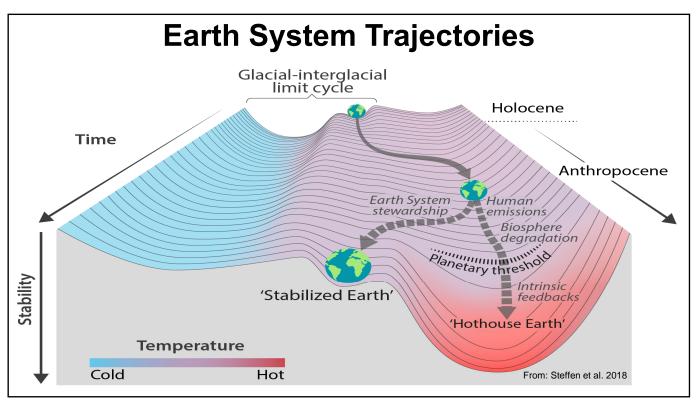


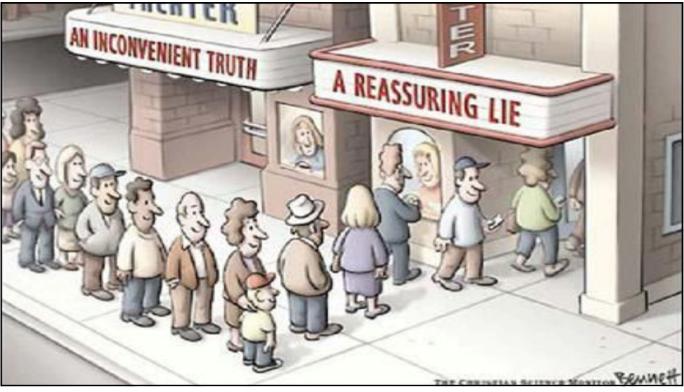




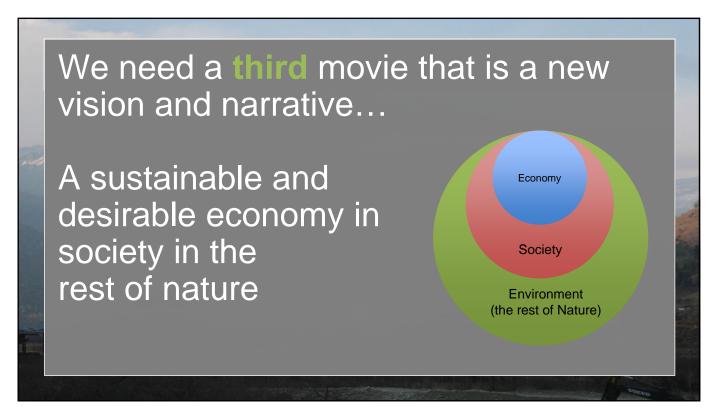


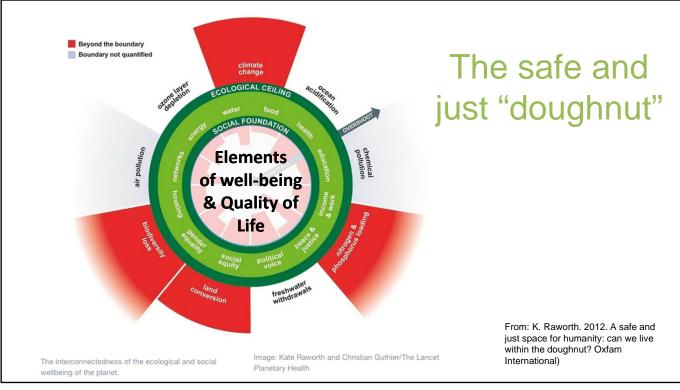


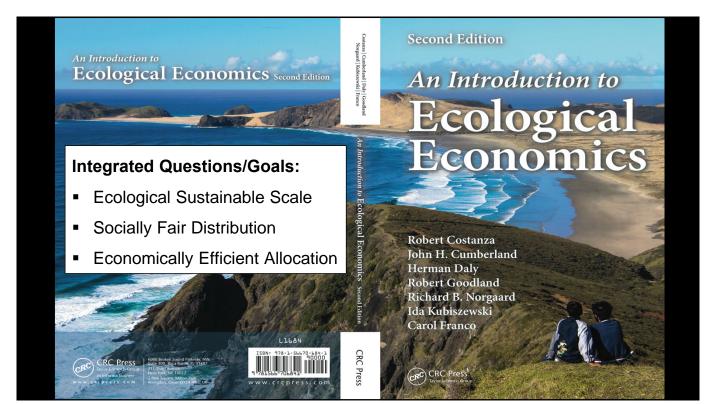










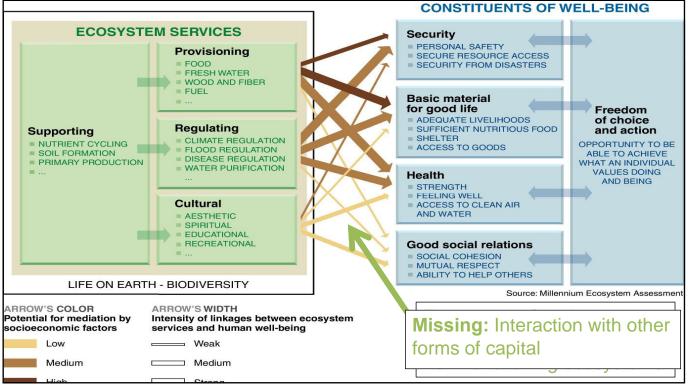


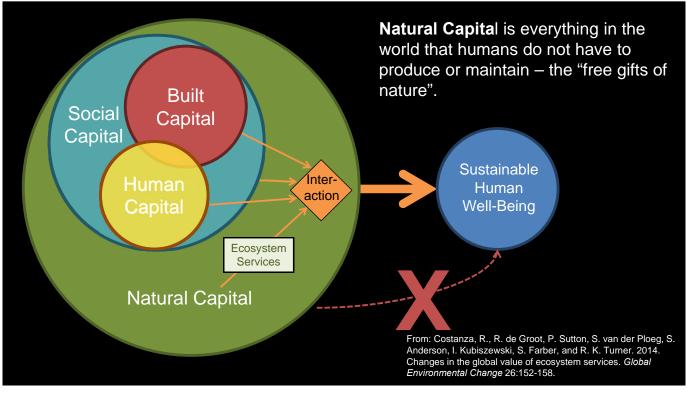
# **Overlapping Ideas**

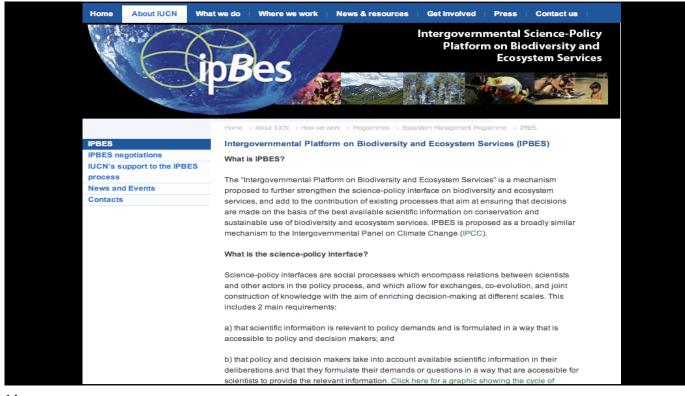
- > Ecological Economy
- > Wellbeing Economy
- > Circular BioEconomy
- Regenerative Economy
- > Ecological Civilization
- > Doughnut Economy
- Steady State Economy
- Lagom Economy
  - ... and more



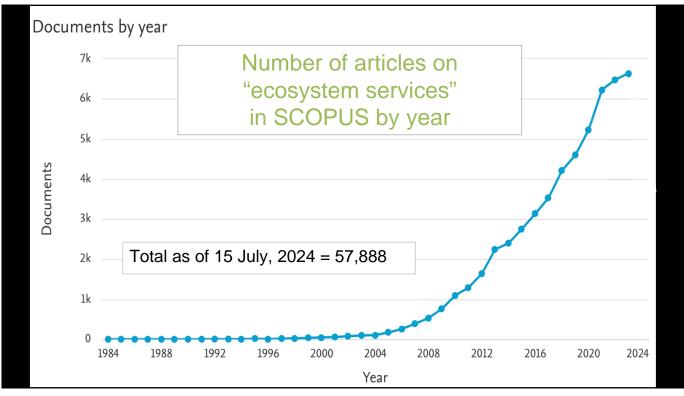










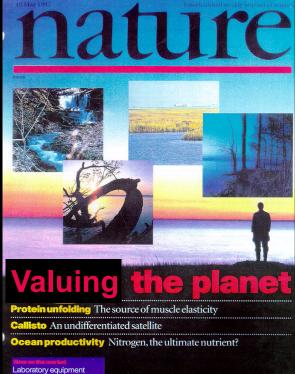


#### NATURE VOL 387 15 MAY 1997 The value of the world's ecosystem services and natural capital

Robert Costanza, Ralph d'Arge, Rudolf de Groot, Stephen Farber, Monica Grasso, Bruce Hannon, Karin Limburg, Shahid Naeem, Robert V. O' Neill, Jose Paruelo, Robert G. Raskin, Paul Sutton & Marjan van den Belt

For the entire biosphere, the value (most of which is outside the market) is estimated to be in the range of US\$16–54 trillion per year, with an average of US\$33 trillion per year.

2<sup>nd</sup> most cited article in the Ecology/Environment area according to the ISI Web of Science with more than 10,000 citations – which puts it in the top 0.01% of all papers ever published.



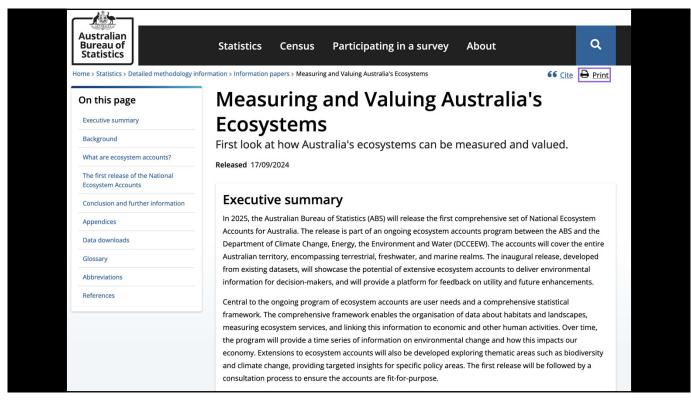
Misconceptions about the valuation of ecosystem services

- Ecosystem Services is not an anthropocentric concept
- Valuation  $\neq$  Privatization, Commodification, or Trading
- Intrinsic values" are more about rights than valuation

Also, we cannot avoid valuation: decisions about ecosystem in a world of trade-offs are implicit valuations From: Costanza, R. 2024. Misconceptions about the valuation of ecosystem services. 2024. Ecosystem Services 70:101667.

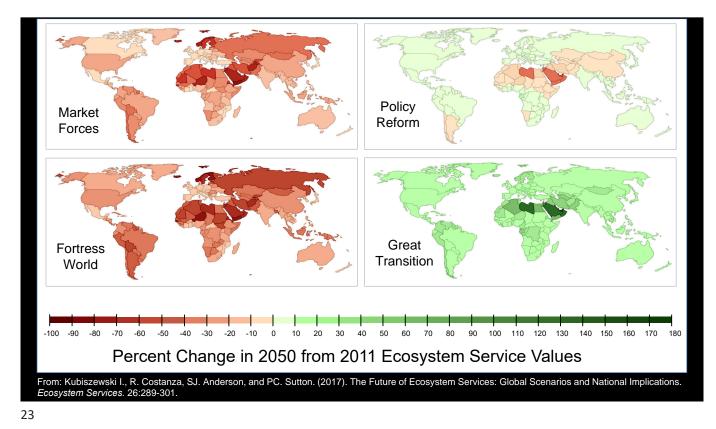
#### Range of uses for ecosystem services valuation

Use of Valuation	Appropriate values	Appropriate spatial scales	Precision Needed				
Rising awareness and interest	Total values, macro aggregates	Regional to global	Low				
National income and well- being accounts	Total values by sector and macro aggregate	National	Medium				
Specific policy analysis	Changes by policy	Multiple depending on policy	Medium to high				
Urban and regional land use planning	Changes by land use scenario	Regional	Low to medium				
Payment for ecosystem services	Changes by actions due payment	Multiple depending on system	Medium to high				
Full cost accounting	Total values by business, product, or activity and changes by business, product, or activity	Regional to global, given the scale of international corporations	Medium to high				
Common asset trusts	Totals to assess capital and changes to assess income and loss	Regional to global	Medium				
From: Costanza, R., et al. 2014. Changes in the global value of ecosystem services. Global Environmental Change 26:152-158.							

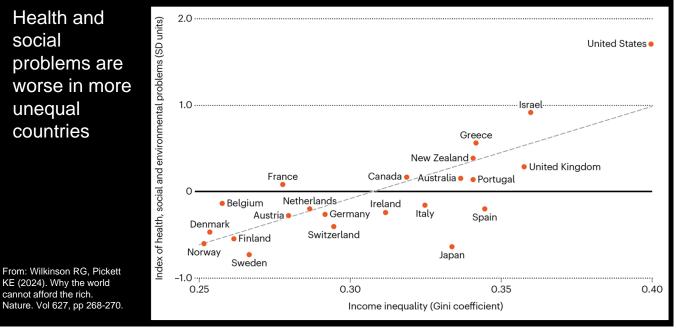


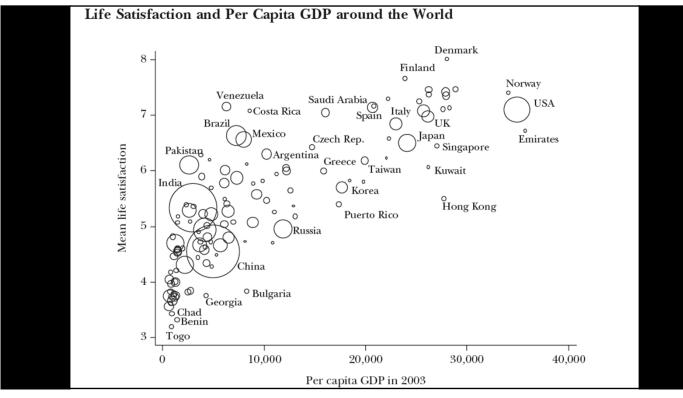


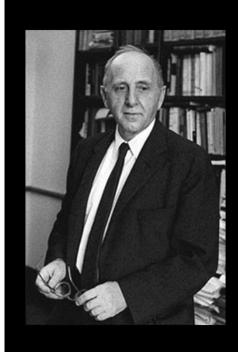




## Fair distribution is essential to quality of life







"The welfare of a nation can scarcely be inferred from a measurement of national income as defined by GDP...Goals for 'more' growth should specify of what and for what."

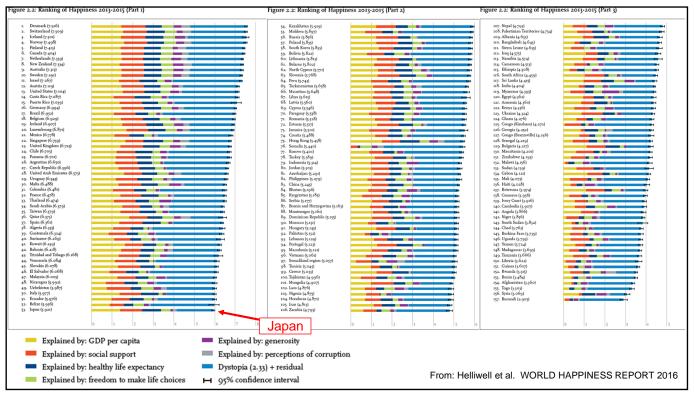
Simon Kuznets



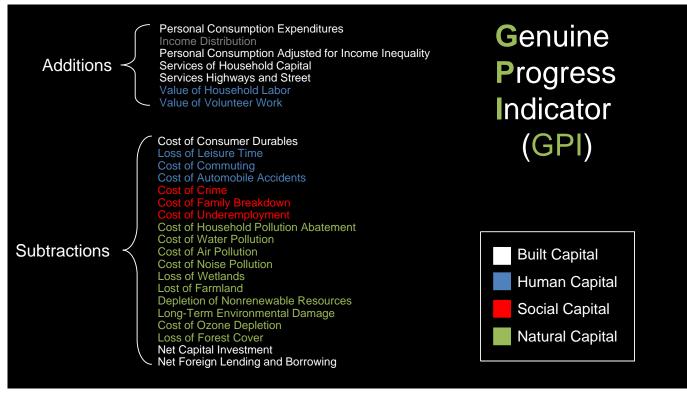
Gross domestic product is a misleading measure of national success. Countries should act now to embrace new metrics, urge **Robert Costanza** and colleagues.

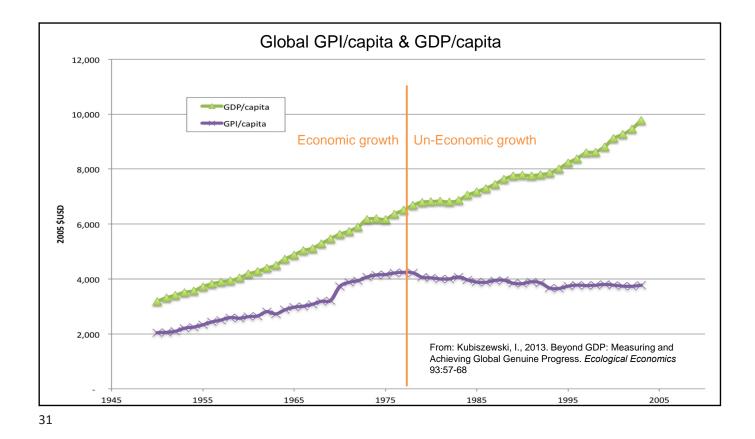
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Indicator	Units	Indic ators	Explanation		Time
Genuine Progress Indicator (GPI)	\$		Personal Consumption Expenditures weighted by income distribution, with volunteer and household work added and environmental and social costs subtracted.	17 countries + regions	1950- present
Genuine Savings	\$		Level of saving after depreciation of produced capital; investments in human capital; depletion of minerals/energy/forests; and damages from air pollutants are accounted for	140 countries	1970-2008
Inclusive Wealth	\$	8	Asset wealth including, built, human, and natural resources	20 countries	1990-2008
Australian Unity Well- Being Index	Index #	14	Annual survey of various aspects of well-being and quality of life	Australia	2001- present
World Values Survey	Index #	100's	Periodic (5 so far) survey of a broad range of social, environmental, and economic variables	73 countries	1981-2008
Gallup-Healthways Well-Being Index	Index #		Annual survey in six domains: live evaluation, physical health, emotional health, healthy behavior, work environment, and basic assets	50 states in US	2008- present
Gross National Happiness	Index #		In-person survey in nine domains: psychological well-being, standard of living, governance, health, education, community vitality, cultural diversity, time use, ecological diversity	Bhutan	2010
Human Development Index (HDI)	Index #	4	Index of GDP/person, spending on health and education, and life expectancy	177 countries	1980- present
Happy Planet Index	Index #	3	HPI = subjective well being * life expectancy / ecological footprint	153 countries	3 yrs
Canadian Index of Well-Being	Index #		Includes community vitality, democratic engagement, education, environment, population, leisure, living standards, and time use	Canada	1994- present
National Well-Being Index	Index #		proxies for built, human, natural and social capital with weights based on regression with subjective well-being		1 yr
OECD Better Life Index	Index #		Includes housing, income, jobs community education, environment, civic engagement, health, life satisfaction, saftey, and work-life balance	36 OECD countries	1 yr
Well-Being of Nations	Index #	63	63 indicators in 20 domains weighted and ranked	180 countries	1990-2000





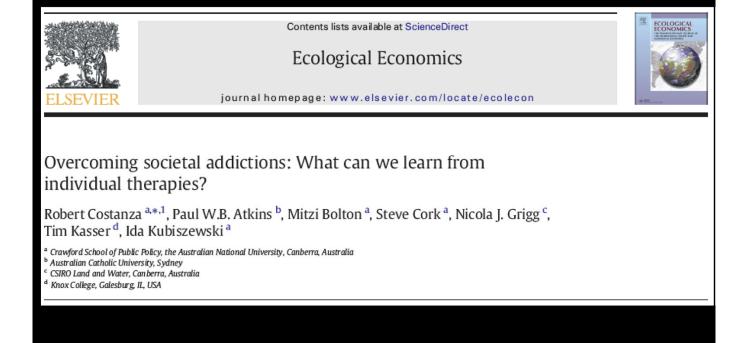


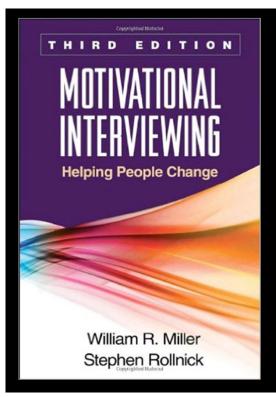




# To create sustainable wellbeing economies and societies requires:

- Breaking our addiction to the "growth at all costs" economic paradigm, to fossil fuels, to overconsumption in high-income countries, and inequality.
- A key step in the therapy is building a shared vision of a more sustainable and desirable future that focuses on the wellbeing of all humans and the rest of nature.





Motivational Interviewing (MI) is one of the most effective therapies for the treatment of substance addictions.

Based on engaging addicts in *a positive discussion* of their goals, motives, and futures.



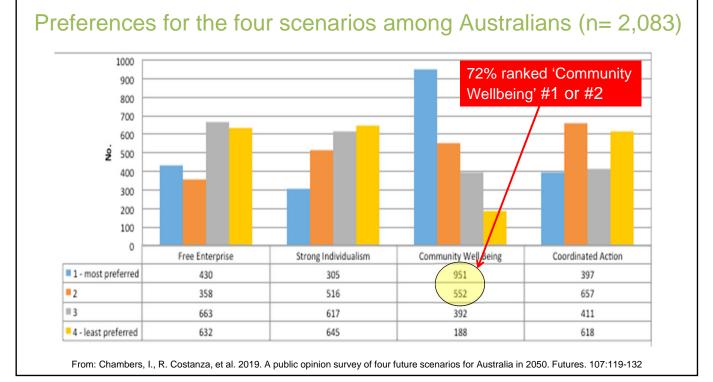


From: Kubiszewski, I., R. Costanza, SJ. Anderson, and PC. Sutton. (2017). The Future of Ecosystem Services: Global Scenarios and National Implications. Ecosystem Services. 26:289-301.

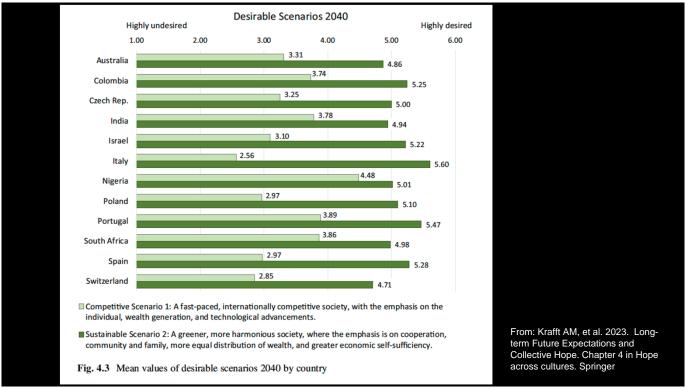




From: Costanza, R., I. Kubiszewski, S. Cork, P.W.B. Atkins, A. Bean, A. Diamond, N. Grigg, E. Korb, J. Logg-Scarvell, R. Navis, and K. Patrick. 2015. Scenarios for Australia in 2050: A synthesis and proposed survey. Journal of Future Studies. 19:49-76.











Elinor Ostrom's 8 core design principles for sustainable commons management

- 1. Clearly defined boundaries
- 2. Proportional equivalence between benefits and costs
- 3. Collective choice arrangements
- 4. Monitoring
- 5. Graduated sanctions
- 6. Conflict resolution mechanisms
- 7. Minimal recognition of rights to organize
- 8. Polycentric governance

#### Claim the Sky!

By asserting that we all own the atmosphere as a common asset, we can begin to use the Public Trust Doctrine and the legal institutions surrounding property rights to protect the climate, charge for damages, and provide rewards to those that improve this shared resource, by creating an Earth Atmospheric Trust.



#### INVOICE

Date: [Soon]

To: [Company XX]

Under the Public Trust doctrine, you are hereby assessed for damages to the Global Atmospheric Commons:

\$[X,XXX] per cumulative ton of CO<sub>2</sub> equivalent introduced into the global economy from aur to aur (based on the latest IPCC estimates of damages), plus ongoing damages:

= \$[X,XXX.00]

Deposit this amount to the Global Atmospheric Trust Fund within 90 days or face legal action and sanctions by the shareholders of the Trust—the people of Earth.

Monies in this fund will be used exclusively to maintain and improve the atmosphere for the benefit of all shareholders, present and future. These uses include, but are not limited to:

- Investment in community owned, low-carbon emitting renewable energy sources, such as wind and solar.
- Investment in carbon sequestration projects including forests, soils, and wetlands.
  Investment in urban infrastructure improvements to reduce car use and improve
- building energy performance. 4. Investment in technology development to enhance and accelerate the above.

As an alternative to paying this invoice in full, you may invest an equivalent amount in projects that have been approved and monitored by the Trust in one of the categories above.

Signed

Shareholders in the Earth Atmospheric Trust





# Wellbeing Economy Alliance (WE All)

A meeting in Glasgow, Scotland, in Oct. 2017, with five governments (Scotland, Sweden, Costa Rica, Slovenia, and New Zealand) committed to creating the Wellbeing Economy Alliance.

wellbeingeconomy.org



