



Part 10

Sustainable development and economics

Is unsustainability sustainable? Options Lessons from historical adaptation • Financial and other crises Distribution Uncertainty and future crises • 'Green' consumerism Is unsustainability sustainable? Epilogue: Get prices right



Is unsustainability sustainable?

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- 'Green' consumerism





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Epilogue: Get prices right

Assume that the following statement is true.

We are getting richer and healthier, but trashing the planet.

Given the above, consider the following two hypotheses.

- We rely on services provided by the planet, and by trashing the planet we are destroying the planet's ability to provide these services in the future.
 - Therefore, if we carry on trashing the planet the loss of these services will lead to us getting poorer and sicker.
- We are adaptable and ingenious.
 - Therefore we can carry on both trashing the planet and getting richer and healthier, indefinitely.





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Now assume that you care about the planet, and would like to help redress the balance between the pursuit of material wealth and care of the planet. What to do? Consider the following two strategies.

- 1. Find evidence for hypothesis 1, or try to convince others of its veracity.
- 2. Persuade others to care too: either more about the planet, or less about material wealth!

There are of course other strategies. For instance:

3. Demonstrate that the system (e.g. 'global capitalism') is going to crash anyway. So we might as well slow it down gently and save the planet at the same time.

The first strategy is fine as long as hypothesis 1 holds. But what if it doesn't?





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The planetary boundaries framework defines a safe operating space for humanity based on the intrinsic biophysical processes that regulate the stability of the Earth System.

For the first time in human history, we need to relate to the risk of destabilising the entire planet. Just because we are not seeing a collapse today doesn't mean we are not subjecting humanity to a process that could lead to catastrophic outcomes over the next century.

Strategy? Author?





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Steffen, Richardsson, Rockström et al's article in Science, 2015.





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We take it for granted, the world that we love—and we're destroying it so quickly. The light of dawn on the prairie. The silvery flash of fish in a stream. The cry of a hawk over a forest. Everybody has their own idea of the beautiful, and we'll surely miss it when it's gone.

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Big World, Small Planet. Rockström and Klum, 2015.





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[People are] persuaded to spend money we don't have, on things we don't need, to create impressions that won't last, on people we don't care about.

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Tim Jackson, TED talk.1





¹ https://www.ted.com/talks/tim_jackson_an_economic_reality_check/transcript.

Lessons from historical adaptation

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The regulated market economy has shown a remarkable ability to adapt and react to crises when they arise, including environmental crises.

On the other hand, we know that environmental crises may often have far-reaching consequences for nature, and sometimes for human welfare. And when the consequences are *only* for nature, not a lot tends to get done. Consider for instance the Baltic Sea, or bird populations in Europe.

Finally, there are examples of civilizations that have collapsed, apparently due to environmental collapse. E.g. Easter Island. What lessons are there here? E.g. Brander and Taylor (1998).



Financial and other crises

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We know that financial crises—especially large-scale ones across many countries—typically have severe and long-lasting effects.

But such a crisis does not signal the death-throes of capitalism, the collapse of the system under the weight of contradictions.

We know why the recent global financial crisis occurred, and we know why recovery from it is so slow. The reason is the lack of confidence in the future which is widespread among agents, a lack of confidence which is rational for each individual in the knowledge that everyone else lacks confidence. It is a gigantic coordination problem, the solution to which is either some massive shock (such as WW2 in 1939) or gradual, inch-by-inch progress.





Distribution

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Who suffers from environmental crises?

And who pulls the strings?





Uncertainty and future crises

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So the global economy will very likely be able to keep going as it has up to now, for decades or even centuries to come. Growing, triggering environmental problems and even catastrophes, and then solving them. All the while, the space for the non-human or 'natural' world is likely to be circumscribed ever-more by our thirst for consumption, consumption of everything from food to wilderness experiences.





'Green' consumerism

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Green consumerism is a tricky business. The key problem is rebound. If you don't consume one thing, but your income is unchanged, you will consume something else instead, or invest in capital which may be just as bad. It is an impossible task for individual consumers to weigh up the environmental effects of their actions.

We need consumers to elect politicians who enact laws which (a) lead to external effects being internalized in the prices of goods (in borderline cases), and (b) lead to highly damaging or unnecessary practices being banned (in black-and-white cases). A recent example of the latter is the ban on incandescent light bulbs in both the US and the EU.





Is unsustainability sustainable? Epilogue: Get prices right Mainstream economics and radical alternatives **Epilogue: Get prices right**



Mainstream economics and radical alternatives

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Mainstream
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alternatives

The mainstream economic mantra is to 'get prices right'.

We have discussed (for instance) taxes on flying contra subsidies to clean technology. In the first-best optimum, the regulator would simply correct all externalities by 'getting prices right'. This might be both through taxing emissions and subsidizing research.

But in reality it may be hard to tax emissions (leakage) and hard to know what the correct price of knowledge is. Then we need to understand the system to find the best policy.

And in reality externalities are all-pervasive. Maybe externalities are leading us to work too hard, consume (and produce) too much?





See http://www.karinenyborg.com/wp-content/uploads/2016/05/Nyborg-Adam-translation-FINALwFig