



Concluding lecture

Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

Competition for status: Intro





Question

Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment





Question

Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

Are we sacrificing leisure time, and damaging the environment, driven by competition for status?





Question

Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

Are we sacrificing leisure time, and damaging the environment, driven by competition for status?

And is this phenomenon increasing in importance over time?





Competition for status: Intro

- Question
- Anecdotal evidence

• Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

Lots of evidence that we make choices based on trying to affect how others perceive us.





Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

Lots of evidence that we make choices based on trying to affect how others perceive us.

Take a look at Charles et al., 2009, QJE.





Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

Lots of evidence that we make choices based on trying to affect how others perceive us.

Take a look at Charles et al., 2009, QJE.

$$u = f(c) !?$$





Competition for status: Intro

- Question
- Anecdotal evidence

• Building a conceptual model

Competition for status: Environment







Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment











Competition for status: Intro

- Question
- Anecdotal evidence

• Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?



We don't need a paper in QJE to tell us that some forms of consumption are positional.



https://www.slu.se/en/cv/robert-hart/



Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?





https://www.slu.se/en/cv/robert-hart/



Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?



Pure pleasure...





Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment







Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment





Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment







Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment









Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

Environmental quality...







Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

Environmental quality...









Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

Environmental quality...







Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

... and pollution







Competition for status: Intro

- Question
- Anecdotal evidence

• Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?







https://www.slu.se/en/cv/robert-hart/





- Question
- Anecdotal evidence

• Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?







Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model
- Competition for status: Environment
- Is unsustainability sustainable?







Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model
- Competition for status: Environment
- Is unsustainability sustainable?







Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?





Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

PPFs with increasing A







Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

Laissez faire







Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

Laissez faire





https://www.slu.se/en/cv/robert-hart/



Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

First best







Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

First best







Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

First best



Hart (2020) EER, following: Grossman/Krueger (1995) QJE; Stokey (1998) IER; Smulders (2006).





Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment







Competition for status: Intro

• Question

• Anecdotal evidence

• Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?







https://www.slu.se/en/cv/robert-hart/



Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

Leisure







Competition for status: Intro

• Question

• Anecdotal evidence

• Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

Household budget constraints






- Question
- Anecdotal evidence
- Building a conceptual model
- Competition for status: Environment
- Is unsustainability sustainable?









- Question
- Anecdotal evidence
- Building a conceptual model
- Competition for status: Environment
- Is unsustainability sustainable?









- Question
- Anecdotal evidence
- Building a conceptual model
- Competition for status: Environment
- Is unsustainability sustainable?







Competition for status: Intro

- Question
- Anecdotal evidence

• Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?





Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?





Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?





Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?









- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment









Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment







Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment





But over the last 30 years ...





Anecdotal evidence

Competition for status:

• Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?



https://www.slu.se/en/cv/robert-hart/



But over the last 30 years ...





SLU

Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?



https://www.slu.se/en/cv/robert-hart/

But over the last 30 years ...

Competition for status:





Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment







Relative consumption





- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?



https://www.slu.se/en/cv/robert-hart/



Relative consumption





- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?



https://www.slu.se/en/cv/robert-hart/



Competition for status: Intro

- Question
- Anecdotal evidence
- Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

Relative consumption





Competition for status: Intro

- Question
- Anecdotal evidence

• Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

Relative consumption





Competition for status: Intro

- Question
- Anecdotal evidence

• Building a conceptual model

Competition for status: Environment

Is unsustainability sustainable?

Relative consumption



Implications:

- Labour supply;
- Optimal taxation;
- Environment;
- Consumption patterns.



Competition for status: Intro

Competition for status: Environment

• Pollution flows: Scale, technique, composition

• Literature

• The model without composition effects

• Adding composition effects

• The model in which energy consumption = status

Is unsustainability sustainable?

Competition for status: Environment





Pollution flows: Scale, technique, composition

Competition for status: Intro

Competition for status: Environment

• Pollution flows: Scale, technique, composition

• Literature

• The model without composition effects

• Adding composition effects

• The model in which energy consumption = status





Pollution flows: Scale, technique, composition

Competition for status: Intro

Competition for status: Environment

• Pollution flows: Scale, technique, composition

• Literature

• The model without composition effects

• Adding composition effects

• The model in which energy consumption = status

Is unsustainability sustainable?

There are three channels through which consumption externalities might affect environmental damages:

- Scale effect (labour supply);
- Technique effect (through stronger preference for environmental quality);
- Composition effect (shift to pollution-intensive goods).

I claimed that consumption externalities lead to oversupply of labour and hence a scale effect driving up pollution flows.

What about the technique effect?





Literature

Competition for status: Intro

Competition for status: Environment

• Pollution flows: Scale, technique, composition

• Literature

• The model without composition effects

• Adding composition effects

• The model in which energy consumption = status





Literature

Competition for status: Intro

Competition for status: Environment

• Pollution flows: Scale, technique, composition

• Literature

• The model without composition effects

- Adding composition effects
- The model in which energy consumption = status

Is unsustainability sustainable?

Interaction between status effects and environmental policy

Not much but see for instance Howarth (1996) Ecol Econ.





Competition for status: Intro

Competition for status: Environment

• Pollution flows: Scale, technique, composition

• Literature

• The model without composition effects

• Adding composition effects

• The model in which energy consumption = status





Competition for status: Intro

Competition for status: Environment

• Pollution flows: Scale, technique, composition

• Literature

• The model without composition effects

• Adding composition effects

• The model in which energy consumption = status

Is unsustainability sustainable?

Back to the baseline model ...





Back to the baseline model ...



Competition for status: Intro

Competition for status: Environment

• Pollution flows: Scale, technique, composition

• Literature

• The model without composition effects

• Adding composition effects

• The model in which energy consumption = status

Is unsustainability sustainable?



https://www.slu.se/en/cv/robert-hart/



Competition for status: Intro

Competition for status: Environment

• Pollution flows: Scale, technique, composition

• Literature

• The model without composition effects

• Adding composition effects

• The model in which energy consumption = status

Is unsustainability sustainable?

Back to the baseline model ... and add resource use and associated pollution flows ...





Competition for status: Intro

Competition for status: Environment

• Pollution flows: Scale, technique, composition

• Literature

• The model without composition effects

• Adding composition effects

• The model in which energy consumption = status

Is unsustainability sustainable?

Back to the baseline model ... and add resource use and associated pollution flows ...





https://www.slu.se/en/cv/robert-hart/



Competition for status: Intro

Competition for status: Environment

• Pollution flows: Scale, technique, composition

• Literature

• The model without composition effects

• Adding composition effects

• The model in which energy consumption = status

Is unsustainability sustainable?

Back to the baseline model ... and add resource use and associated pollution flows ... but stick with a single good.





https://www.slu.se/en/cv/robert-hart/



The model without composition effects Final goods are produced using labour $(1 - \delta)h$ and energy k, where k =Competition for status: e use and $A\delta h_{\cdot}$ gle good. Competition for status: The production function is CES, elastic-• Pollution flows: Scale. ity η . technique, composition • The model without C_i $P \neq \phi k$ composition effects • Adding composition $Q = 1 - \psi P$ • The model in which κ_i energy consumption = $(1-\delta)h_i$ li δh_i $l_i = 1 - h_i$ h_i $c = Ah \left[(1 - \gamma)(1 - \delta)^{(\eta - 1)/\eta} + \gamma \delta^{(\eta - 1)/\eta} \right]^{\eta/(\eta - 1)}$ $u_i = \left[l_i^{(\epsilon-1)/\epsilon} + \beta_c c_i^{(\epsilon-1)/\epsilon} + \beta_s (c_i/c)^{(\epsilon-1)/\epsilon} + \beta_q Q^{(\epsilon-1)/\epsilon} \right]^{\epsilon/(\epsilon-1)}$



Intro

Environment

• Literature

effects

status

Is unsustainability

sustainable?



• Pollution is linear in energy use.

Back to the baseline model ... and add resource use and associated pollution flows ... but stick with a single good.



Competition for status: Intro

Competition for status: Environment

• Pollution flows: Scale, technique, composition

• Literature

• The model without composition effects

• Adding composition effects

• The model in which energy consumption = status







Social planner (internal):

$$\mathcal{L}_{P} = \left\{ \beta_{c} c^{(\epsilon-1)/\epsilon} + l^{(\epsilon-1)/\epsilon} + \beta_{s} + \beta_{q} (1-\psi P)^{(\epsilon-1)/\epsilon} \right\}^{\epsilon/(\epsilon-1)} + \mu \left[A(1-l) (1-\delta)^{1-\gamma} \delta^{\gamma} - c \right] + \nu \left\{ P - \delta \phi A(1-l) \right\};$$

Social planner (internal):

$$\mathcal{L}_P = \left\{ \beta_c c^{(\epsilon-1)/\epsilon} + l^{(\epsilon-1)/\epsilon} + \beta_s + \beta_q (1-\psi P)^{(\epsilon-1)/\epsilon} \right\}^{\epsilon/(\epsilon-1)} + \mu \left[A(1-l) (1-\delta)^{1-\gamma} \delta^{\gamma} - c \right] + \nu \left\{ P - \delta \phi A(1-l) \right\};$$

Regulated market (internal):

$$\mathcal{L}_{M} = \left\{ \beta_{c} c_{i}^{(\epsilon-1)/\epsilon} + l_{i}^{(\epsilon-1)/\epsilon} + \beta_{s} (c_{i}/c)^{(\epsilon-1)/\epsilon} + \beta_{q} Q^{(\epsilon-1)/\epsilon} \right\}^{\epsilon/(\epsilon-1)} + \mu \left\{ w(1-l_{i}) + \sigma c + \tau P - (1+\sigma)c_{i} \right\}.$$

Social planner (internal):

$$\mathcal{L}_P = \left\{ \beta_c c^{(\epsilon-1)/\epsilon} + l^{(\epsilon-1)/\epsilon} + \beta_s + \beta_q (1-\psi P)^{(\epsilon-1)/\epsilon} \right\}^{\epsilon/(\epsilon-1)} + \mu \left[A(1-l) (1-\delta)^{1-\gamma} \delta^{\gamma} - c \right] + \nu \left\{ P - \delta \phi A(1-l) \right\};$$

Regulated market (internal):

$$\mathcal{L}_M = \left\{ \beta_c c_i^{(\epsilon-1)/\epsilon} + l_i^{(\epsilon-1)/\epsilon} + \beta_s (c_i/c)^{(\epsilon-1)/\epsilon} + \beta_q Q^{(\epsilon-1)/\epsilon} \right\}^{\epsilon/(\epsilon-1)} + \mu \left\{ w(1-l_i) + \sigma c + \tau P - (1+\sigma)c_i \right\}.$$



Interaction?
Interaction?



Interaction?

- Households trade off environmental quality and consumption.
- Household flexibility is captured by ϵ : low ϵ , low flexibility.
- Firm flexibility is captured by η , the elasticity of substitution between labour and energy; low η , low flexibility.
- If $\epsilon < \eta$ then inflexible consumers demand, and get, higher environmental quality as their income increases. Whether or not they oversupply labour!























Adding composition effects

Competition for status: Intro

Competition for status: Environment

• Pollution flows: Scale, technique, composition

• Literature

• The model without composition effects

• Adding composition effects

• The model in which energy consumption = status

Is unsustainability sustainable?





https://www.slu.se/en/cv/robert-hart/

Adding composition effects

Complex!

Competition for status: Intro

Competition for status: Environment

 Pollution flows: Scale. technique, composition

• Literature

 The model without composition effects

• Adding composition effects

• The model in which energy consumption =status

Is unsustainability sustainable?

Hart (2018). We shift to energy-intensive goods as GDP rises.

Heffetz (2011), REStat, we shift to visible goods as income rises.

Sager (2019) EnergyE. Energy intensity slightly declining across expenditure distribution, but households shift towards energy-intense goods as GDP rises.

High degree of positionality for housing and cars, e.g. Alpizar et al. (2005).

Inequality \Rightarrow need to signal status \Rightarrow high carbon emissions, e.g. Jorgenson et al. (2017).

Fraja (2009). Energy intense = status, result of evolutionary selection pressure to demonstrate control over resources.







AT CAMBRIDGE IN THE COMMONWEALTH OF MASSACHUSETTS

THE PRESIDENT AND FELLOWS OF HARVARD COLLEGE, acting on the recommendation of the Eaculty of Covernment

Income distribution



Societal income





THIS is to certify that it appears by the Register of the Examinations that

A more Winter



Capture the essentials of these processes in the

To do:

model.

HARVARD UNIVERSITY

AT CAMBRIDGE IN THE COMMONWEALTH OF MASSACHUSETTS

ENT AND FELLOWS OF HARVARD cting on the recommendation of the ulty of Covernment





Societal income





 T_{HIS} is to certify that it appears by the Register of the Examinations that

A more Ringth





AT CAMBRIDGE IN THE COMMONWEALTH OF MASSACHUSETTS

ENT AND FELLOWS OF HARVARD cting on the recommendation of the ulty of Covernment

To do:

Canture the essentials of these processes in the

For now, something a lot simpler!



Societal income





 $T\!\!\!\!$ HIS is to certify that it appears by the Register of the Examinations that

A more Kinatt.

Competition for status: Intro

Competition for status: Environment

• Pollution flows: Scale, technique, composition

• Literature

• The model without composition effects

• Adding composition effects

• The model in which energy consumption = status

Is unsustainability sustainable?







Start with baseline model ...

 C_i $Q = 1 - \psi P$ k_i $(1-\delta)h_{a}$ li δh_i $l_i = 1 - h_i$ h_i $c = Ah \left[(1 - \gamma)(1 - \delta)^{(\eta - 1)/\eta} + \gamma \delta^{(\eta - 1)/\eta} \right]^{\eta/(\eta - 1)}$ $u_i = \left[l_i^{(\epsilon-1)/\epsilon} + \beta_c c_i^{(\epsilon-1)/\epsilon} + \beta_s (c_i/c)^{(\epsilon-1)/\epsilon} + \beta_q Q^{(\epsilon-1)/\epsilon} \right]^{\epsilon/(\epsilon-1)}$



Competition for status: Environment

• Pollution flows: Scale, technique, composition

• Literature

• The model without composition effects

• Adding composition effects

• The model in which energy consumption = status

Is unsustainability sustainable?





Competition for status: Intro

Competition for status: Environment

• Pollution flows: Scale, technique, composition

- Literature
- The model without composition effects
- Adding composition effects
- The model in which energy consumption = status

Is unsustainability sustainable?

Start with baseline model ... simplify by assuming Cobb–Douglas production ...







Competition for status: Intro

Competition for status: Environment

• Pollution flows: Scale, technique, composition

• Literature

• The model without composition effects

• Adding composition effects

• The model in which energy consumption = status

Is unsustainability sustainable?

Start with baseline model ... simplify by assuming Cobb–Douglas production ... and let k_i/k be the status term.















Competition for status: Environment

• Pollution flows: Scale, technique, composition

• Literature

• The model without composition effects

• Adding composition effects

• The model in which energy consumption = status

Is unsustainability sustainable?

Summary

Consumption externalities can open an increasingly large wedge between optimal labour supply (approaches zero) and laissez faire labour supply (constant).

But oversupply of labour may actually be *good for the environment*, because the scale effect may be outweighed by a technique effect driven by Pigovian pollution taxes.

But if consumption externalities drive a *composition effect* towards definitely dirty goods they are (very) bad for the environment.





Competition for status: Environment

• Pollution flows: Scale, technique, composition

- Literature
- The model without composition effects
- Adding composition effects
- The model in which energy consumption = status

Is unsustainability sustainable?

Summary

Consumption externalities can open an increasingly large wedge between optimal labour supply (approaches zero) and laissez faire

Assume our choices are driven by a 'status game'.

- If it is 'zero sum' we should coordinate on goods that actually raise utility (leisure?).
- In any case, we should coordinate on choices that do not damage public goods (leisure!).



Competition for status: Environment

- Pollution flows: Scale, technique, composition
- Literature
- The model without composition effects
- Adding composition effects
- The model in which energy consumption = status

Is unsustainability sustainable?

Alternative approach

- Why do we work so hard?
- Competition for status through consumption? Or our urge 'to strive and not to enjoy' (Keynes)?
- This puts an even more intense focus on environmental damages from production.



Competition for status: Environment

• Pollution flows: Scale, technique, composition

- Literature
- The model without composition effects
- Adding composition effects
- The model in which energy consumption = status

Is unsustainability sustainable?

Alternative approach

Assume we only engage in production to keep ourselves amused.

• Then the least we can do is to ensure that the process does not damage public goods such as environmental quality.





Competition for status: Environment

Is unsustainability sustainable?

• Options

• Lessons from historical adaptation

- Financial and other crises
- Distribution

• Uncertainty and future crises

• 'Green' consumerism contra environmental policy

• Values

Is unsustainability sustainable?





Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

• Options

• Lessons from historical adaptation

- Financial and other crises
- Distribution

• Uncertainty and future crises

• 'Green' consumerism contra environmental policy

• Values







Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

- Options
- Lessons from historical adaptation
- Financial and other crises
- Distribution
- Uncertainty and future crises
- 'Green' consumerism contra environmental policy
- Values

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.
- 2. We are adaptable and ingenious.
 - Therefore we can carry on both trashing the planet and getting richer and healthier, indefinitely.





Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

- Options
- Lessons from historical adaptation
- Financial and other crises
- Distribution
- Uncertainty and future crises
- 'Green' consumerism contra environmental policy
- Values

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?





Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

• Options

• Lessons from historical adaptation

- Financial and other crises
- Distribution
- Uncertainty and future crises
- 'Green' consumerism contra environmental policy
- Values

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?





Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

• Options

• Lessons from historical adaptation

- Financial and other crises
- Distribution
- Uncertainty and future crises
- 'Green' consumerism contra environmental policy
- Values

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.

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





Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

• Options

• Lessons from historical adaptation

• Financial and other crises

• Distribution

• Uncertainty and future crises

• 'Green' consumerism contra environmental policy

• Values

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.

Strategy? Author?




Options

Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

• Options

• Lessons from historical adaptation

- Financial and other crises
- Distribution
- Uncertainty and future crises
- 'Green' consumerism contra environmental policy
- Values

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.

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





Options

Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

• Options

• Lessons from historical adaptation

- Financial and other crises
- Distribution
- Uncertainty and future crises

• 'Green' consumerism contra environmental policy

• Values

[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.

Strategy? Author?







Options

Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

• Options

• Lessons from historical adaptation

- Financial and other crises
- Distribution
- Uncertainty and future crises
- 'Green' consumerism contra environmental policy
- Values

[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.

Tim Jackson, TED talk.¹

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





Lessons from historical adaptation

Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

• Options

• Lessons from historical adaptation

- Financial and other crises
- Distribution

• Uncertainty and future crises

• 'Green' consumerism contra environmental policy

• Values







Lessons from historical adaptation

Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

• Options

• Lessons from historical adaptation

- Financial and other crises
- Distribution
- Uncertainty and future crises
- 'Green' consumerism contra environmental policy
- Values

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

Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

• Options

• Lessons from historical adaptation

- Financial and other crises
- Distribution

• Uncertainty and future crises

- 'Green' consumerism contra environmental policy
- Values







Financial and other crises

Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

• Options

• Lessons from historical adaptation

- Financial and other crises
- Distribution
- Uncertainty and future crises
- 'Green' consumerism contra environmental policy
- Values

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

Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

- Options
- Lessons from historical adaptation
- Financial and other crises
- Distribution
- Uncertainty and future crises
- 'Green' consumerism contra environmental policy
- Values







Distribution

Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

• Options

• Lessons from historical adaptation

- Financial and other crises
- Distribution

• Uncertainty and future crises

• 'Green' consumerism contra environmental policy

• Values

Who suffers from environmental crises?

And who pulls the strings?



https://www.slu.se/en/cv/robert-hart/



Uncertainty and future crises

Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

• Options

• Lessons from historical adaptation

- Financial and other crises
- Distribution

• Uncertainty and future crises

• 'Green' consumerism contra environmental policy

• Values







Uncertainty and future crises

Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

• Options

• Lessons from historical adaptation

- Financial and other crises
- Distribution
- Uncertainty and future crises

• 'Green' consumerism contra environmental policy

• Values

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 contra environmental policy

Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

• Options

• Lessons from historical adaptation

- Financial and other crises
- Distribution

• Uncertainty and future crises

- 'Green' consumerism contra environmental policy
- Values







'Green' consumerism contra environmental policy

Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

• Options

• Lessons from historical adaptation

- Financial and other crises
- Distribution
- Uncertainty and future crises
- 'Green' consumerism contra environmental policy
- Values

Green consumerism is a tricky business. One 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.

Get prices right!



https://www.slu.se/en/cv/robert-hart/



Values

Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

- Options
- Lessons from historical adaptation
- Financial and other crises
- Distribution
- Uncertainty and future crises
- 'Green' consumerism contra environmental policy
- Values







Values

Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

- Options
- Lessons from historical adaptation
- Financial and other crises
- Distribution
- Uncertainty and future crises
- 'Green' consumerism contra environmental policy
- Values

We also need to update our moral codes and social norms to cope with an interconnected world in which each individual has the power to cause tiny amounts of damages to billions of other people, for instance through actions leading to the release of global pollutants.

What gives utility? This is to a large extent determined by social norms, which can change rapidly! Here each individual can play a role by affecting those around them.

How we can affect social norms is not the subject of this course, but what we have done in the course is show the importance of households' choices, driven by their utility functions.

Technological change is important, but won't solve everything on its own. Pricing externalities is even more important, but if we don't care about nature, or future generations, correct pricing will still lead to bad outcomes for ... nature and future generations.





Competition for status: Intro

Competition for status: Environment

Is unsustainability sustainable?

• Options

• Lessons from historical adaptation

- Financial and other crises
- Distribution

• Uncertainty and future crises

• 'Green' consumerism contra environmental policy

• Values

Alpizar, F., Carlsson, F., Johansson-Stenman, O., 2005. How much do we care about absolute versus relative income and consumption? Journal of Economic Behavior & Organization 56, 405–421.

Brander, J.A., Taylor, M.S., 1998. The simple economics of Easter Island: A Ricardo–Malthus model of renewable resource use. American Economic Review 88, 119–138.

Charles, K.K., Hurst, E., Roussanov, N., 2009. Conspicuous consumption and race. The Quarterly Journal of Economics 124, 425–467.

Fraja, G.D., 2009. The origin of utility: Sexual selection and conspicuous consumption. Journal of Economic Behavior & Organization 72, 51–69.

Hart, R., 2018. Rebound, directed technological change, and aggregate demand for energy. Journal of Environmental Economics and Management 89, 218–234.

Heffetz, O., 2011. A test of conspicuous consumption: visibility and income elasticities. Review of Economics and Statistics , 1101–1117.

Jorgenson, A., Schor, J., Huang, X., 2017. Income inequality and carbon emissions in the United States: A state-level analysis, 1997–2012. Ecological Economics 134, 40–48.

Sager, L., 2019. Income inequality and carbon consumption: Evidence from environmental Engel curves. Energy Economics 84, 104507.

