







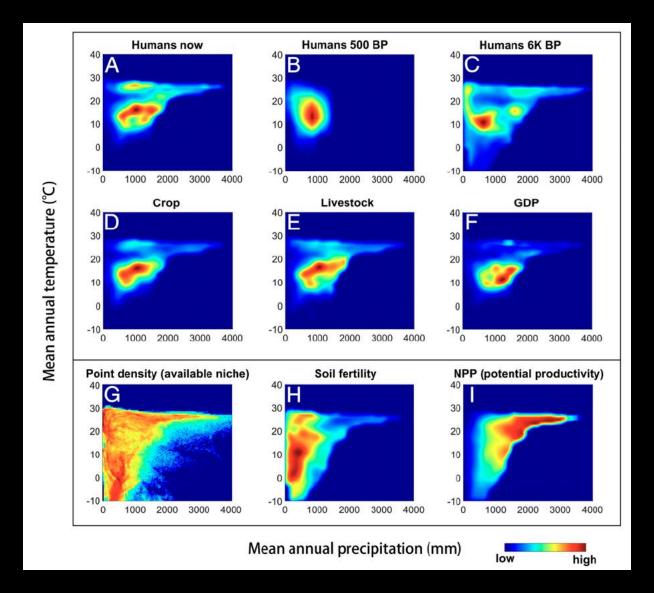
Do humans have a climate niche?



Xu Chi



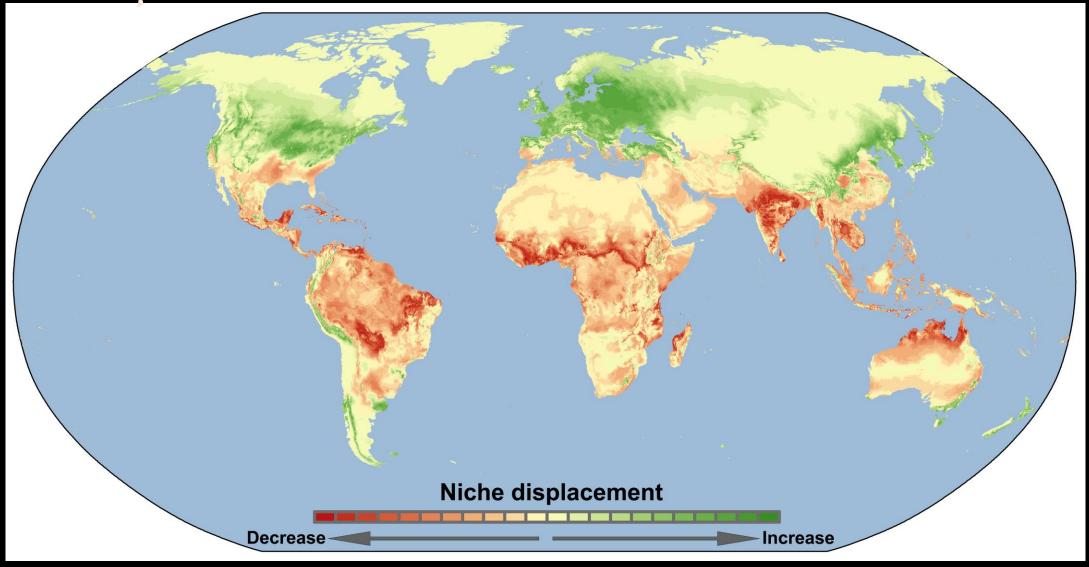
Do humans have a climate niche?



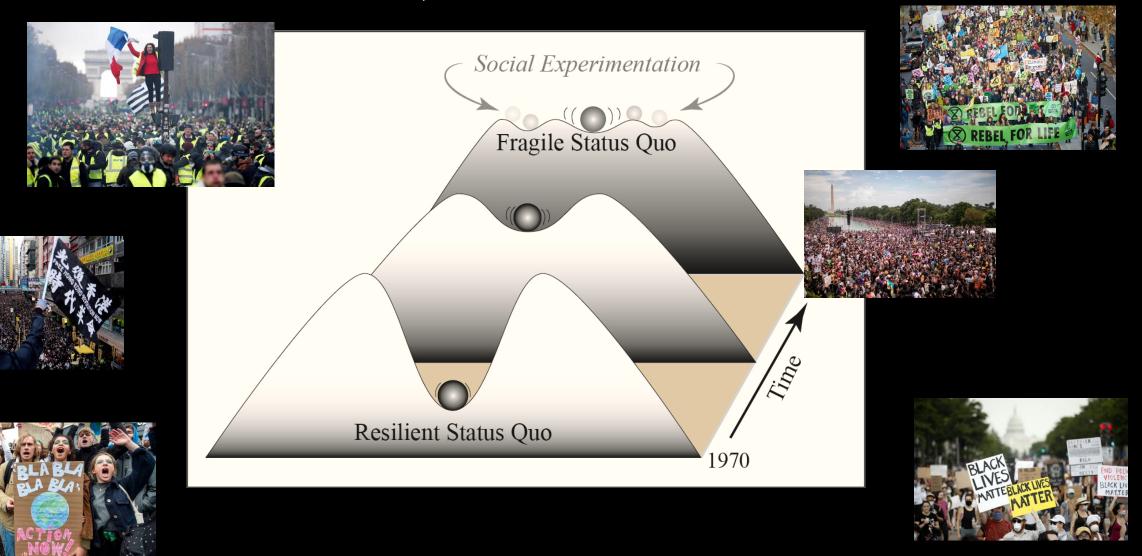


Xu Chi

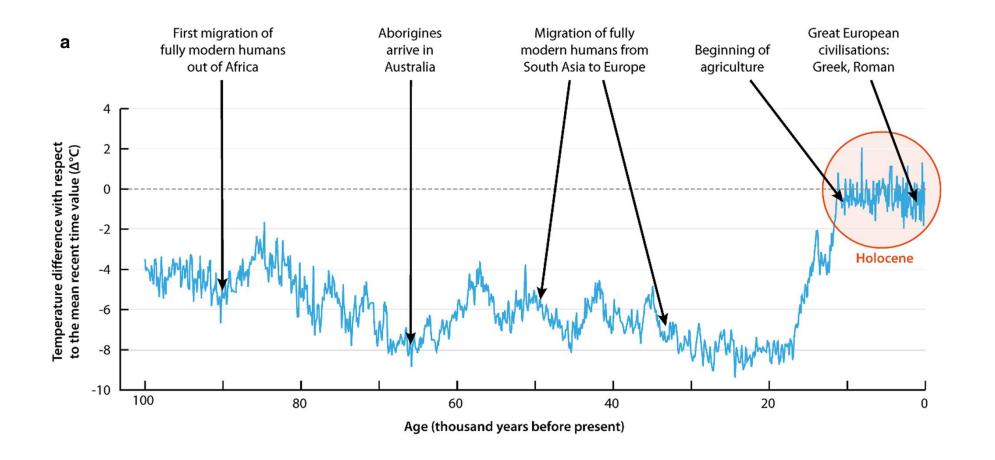
Future of the human climate niche



ension

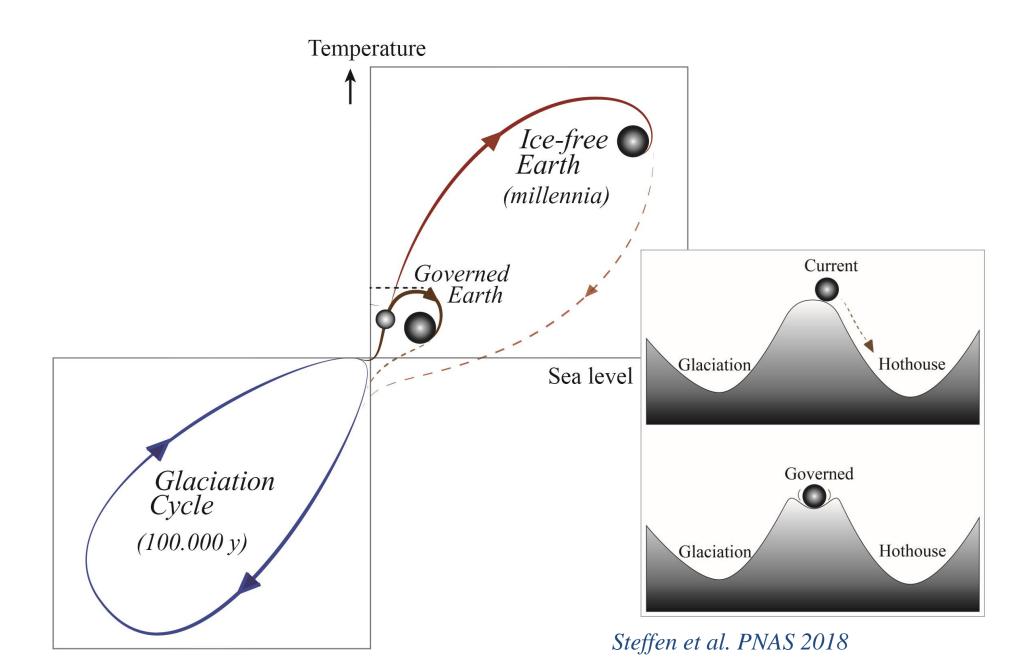


The Big Picture

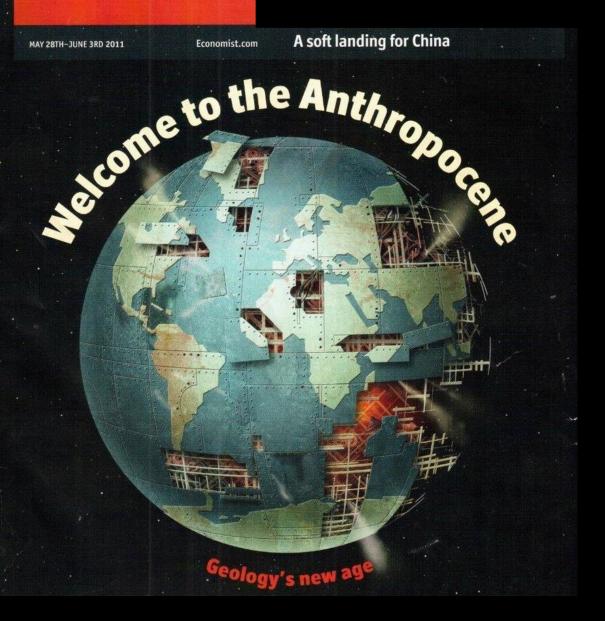


From Folke et al. 2021 Our Future in the Anthropocene. *Ambio*

The Big Picture



The **Economist**



Humans have changed the way the world works.

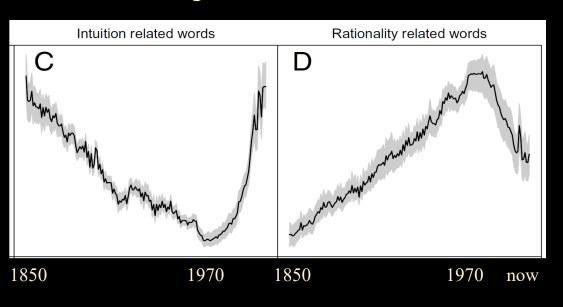
Now they have to change the way they think about it, too

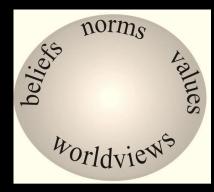
Can we change?



Can we change?

A post-truth world?





The rise and fall of rationality Scheffer et al. PNAS 2022

What is the role of science and education?



Analyzing the rise and fall of 324 pre-modern societies
With Tim Kohler, Tim Lenton, Xu Chi, Egbert van Nes, Luke Kemp and others

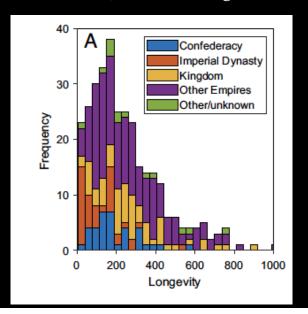
How long did they live?

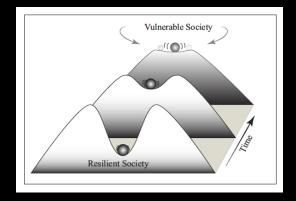
PNAS 2023

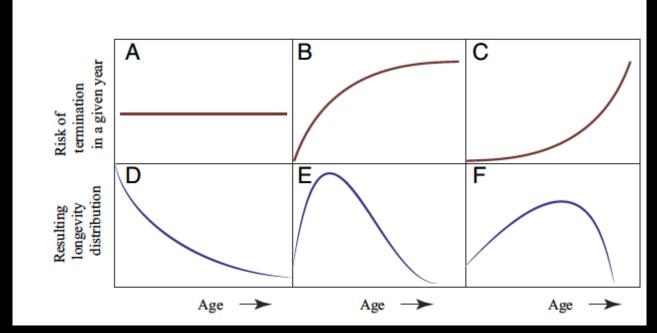
premodern societies



Marten Scheffer^{8,1} , Egbert H. van Nes⁸, Luke Kemp⁸, Timothy A. Kohler⁶, Timothy M. Lenton^d, and Chi Xu⁸



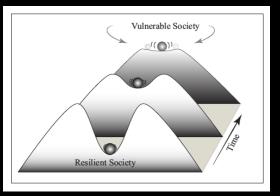




So, Societal Collapse is one way of tipping...





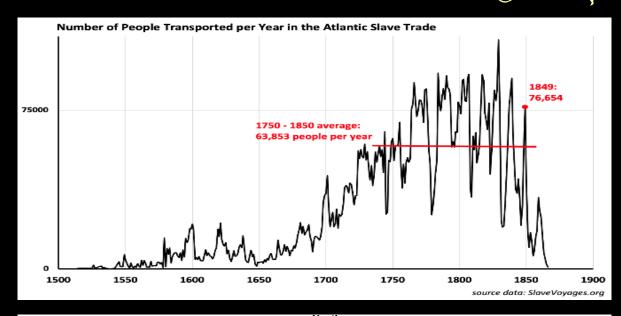


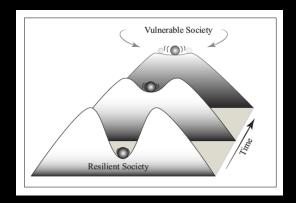




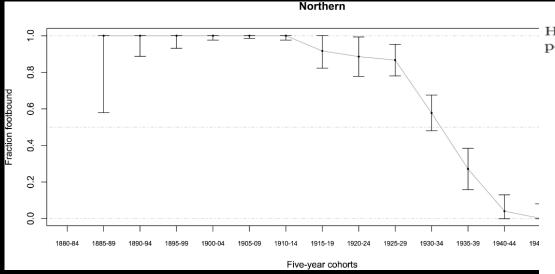
But, Social Norms may Tip too

Slavetrade

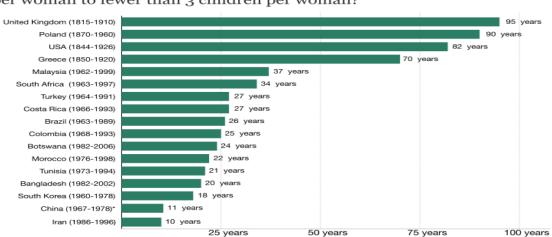




Footbinding



How long did it take for fertility to fall from more than 6 children per woman to fewer than 3 children per woman?



Fertility

* The one-child-policy in China was introduced after the decline of the total fertility rate below 3. It was introduced between 1978 and 1980.

state source: The data on the total fertility rate is taken from the Gapminder fertility dataset (version 6) and the World Bank World Development Indicators, by interesting the interesting dataset (version 6) and the World Bank World Development Indicators, by interesting the interesting data and representations to the Indicators of t

Is the status quo losing resilience now?

Will we tip right or tumble wrong?

Social disintegration

Isolationism

Populism

Fear, Anger Intuition

Xenophobia

Autocracy

Cooperation

Movements

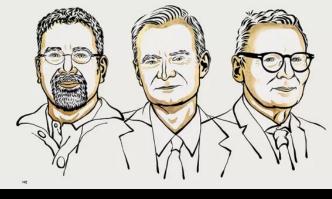
Concerted

action

Trust, Hope Rationality

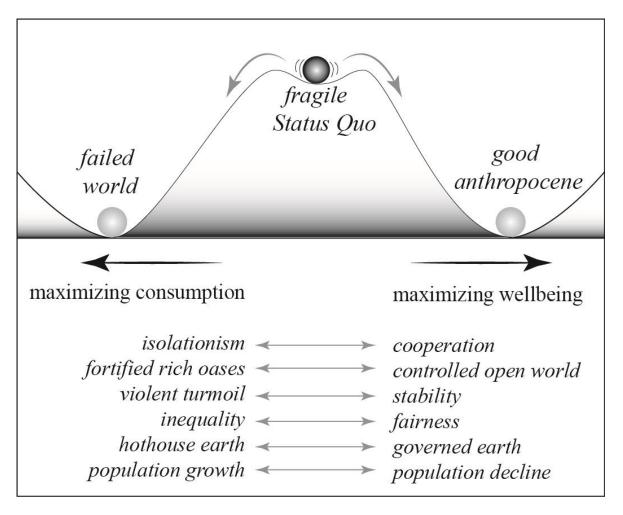
Transparency

Democracy



Nobel Prize 2024 Make institutions work!

Free Will?



Do we have a choice?

