







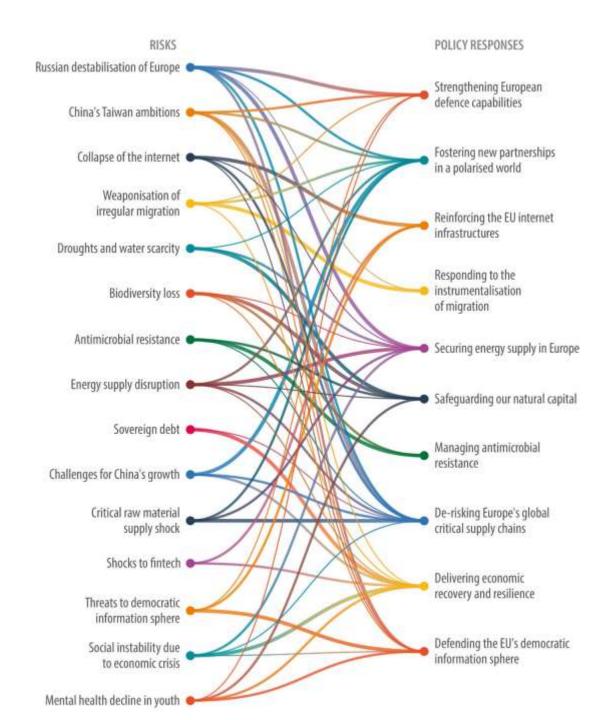
Comments to EPRS's analysis "Future Shocks 2023: Anticipating and weathering the next storms"

Authored by EPRS | European Parliamentary Research Service Zsolt Pataki, Policy Foresight Unit, PE 747.460 - August 2023

Andrea Saltelli Brussels March 6, 2024 EU Parliament Interlinkages, permacrises, polycrises ...

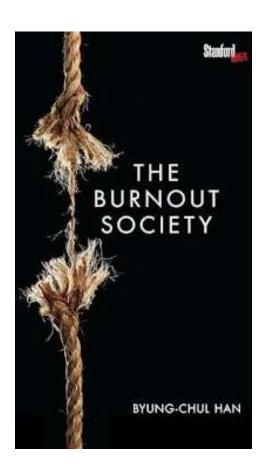
A good, thorough analysis

What can be added?



Comment 1: Prevalent ideology, its sociotechnical imaginaries, and associated risks

An ideology elevating efficiency to supreme good pays a price in fragilities of humans, their environment, their economies





https://www.bbc.com/news/world-middle-east-56505413

Toxicological Sciences

JOURNAL ARTICLE ACCEPTED MANUSCRIPT

Quantitation and identification of microplastics accumulation in human placental specimens using pyrolysis gas chromatography mass spectrometry

Get access

Marcus A Garcia, Rui Liu, Alex Nihart, Eliane El Hayek, Eliseo Castillo, Enrico R Barrozo, Melissa A Suter, Barry Bleske, Justin Scott, Kyle Forsythe ... Show more

Toxicological Sciences, kfae021, https://doi.org/10.1093/toxsci/kfae021 **Published:** 17 February 2024

The Guardian

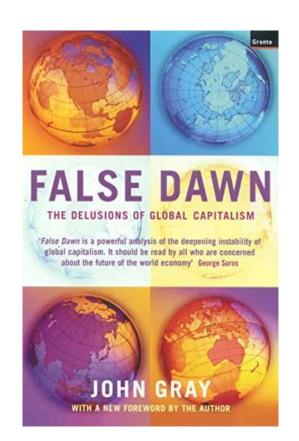
Microplastics found in every human placenta tested in study

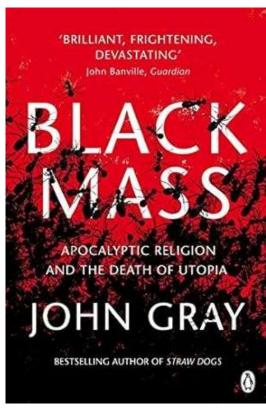
Scientists express concern over health impacts, with another study finding particles in arteries

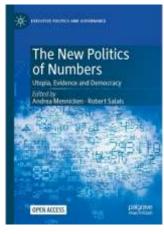


Damian Carrington Environment editor

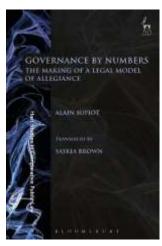
According to some, the ideology of liberalism and free market globalization have produced irreversible damages







Salais' a-democracy





Supiot's refeudalization

Gray on the failure of neoliberal utopia

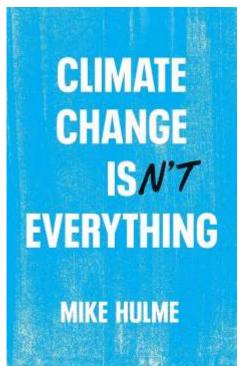
Comment 2: The risks of climatism

despite the ongoing Russian war on Ukraine, climate change was the most

Stringent, and that the main risks in the next five to 10 years relate to geopolitical tensions, cybersecurity and energy. Furthermore, AXA identified an imminent inter-relation – a nexus of risks – between

climate change, geopolitics and energy. Climate change indeed ranks first

as a fundamental risk multiplier, by fuelling energy, food, feed and health risks, which all threaten to set back our progress on economic and human development.





Climate Change Isn't Everything: Liberating Climate Politics from Alarmism

Article Talk

Climate change cannot be the lens through which to look at the world's problems. The war in Syria is not a

result of climate change

Rejecting climatic determinism is not a refutation of climate change but of its instrumental use

Papers here

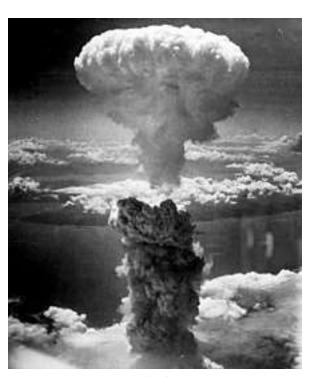




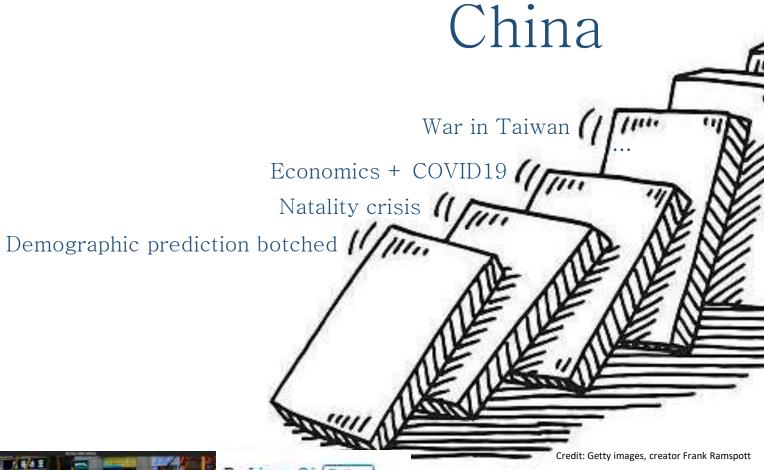
Comment 3: Domino effects

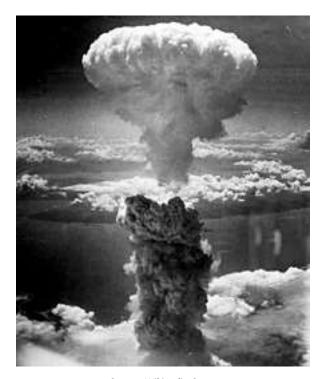
Europe



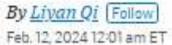


Source: Wikipedia Commons





Source: Wikipedia Commons



THE WALL STREET JOURNAL.

How China Miscalculated Its Way to a Baby Bust

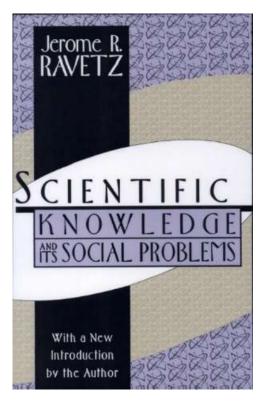
A missile scientist used mathematical models to push the nation's one-child policy. Its legacy is proving hard to shake.

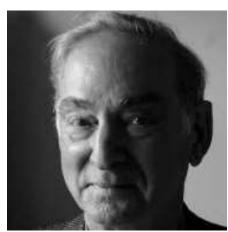
Comment 4: Science-generated domino effects

A prophetic work describing science as a potential peril in its transformation from little to big and mega

- shoddy science,
- entrepreneurial science,
- reckless science,
- dirty science

Ravetz, J., 1971, Scientific Knowledge and its Social Problems, Oxford University Press.



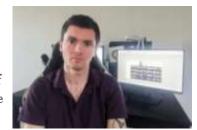


Jerome R. Ravetz

Shoddy science - science reproducibility crisis

He Hunts Sloppy Scientists. He's Finding Lots of Prey.

Meet Sholto David, whose error-spotting has raised a question: If researchers aren't getting the little things right, what else might be wrong?







Matt Richtel Eye New Hork Eim

Denied for two decades, science's many disfunctions (publishing, peer reviews, grants system…) have become today the new normal in media and academia

nature

nature > news > article

By Katharine Sanderson

Published Feb. 2, 2024 Updated Feb. 5, 2024

NEWS 19 January 2024

Science's fake-paper problem: highprofile effort will tackle paper mills



EXCLUSIVE: Poor-quality studies are polluting the literature — a group will study the businesses that produce them to stem the flow of bogus research.

Works on science's reproducibility, science's integrity, ...

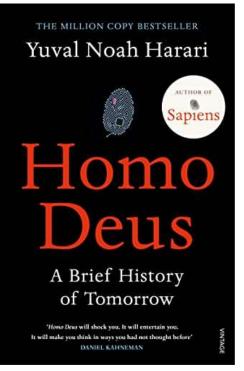


Entrepreneurial science Elon musk, Silicon' Valley's transhumanism, corporate threats to health and the environment, regulatory capture, colonization of science

• • •



Denounces the use of science in regulatory capture



In praise of transhumanism



Reckless science (1) → COVID19 and Lableaks

"What did COVID-19 really teach us about science, evidence and society?"

Daniel Sarewitz



WILEY Ordine Library



John P.A. Ioannidis



What did COVID-19 really teach us about science, evidence and society?

Andrea Saltelli . Joachim P. Sturmberg, Daniel Sarewitz, John P. A. Ioannidis

First published: 06 June 2023 | https://doi.org/10.1111/jep.13876 | Citations: 2

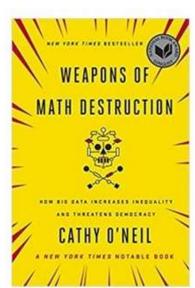


Joachim P. Sturmberg

More on lessons from COVID19



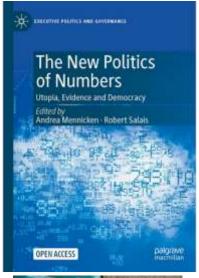
Reckless science (2) - Runaway digital technologies

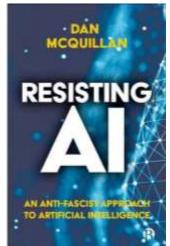


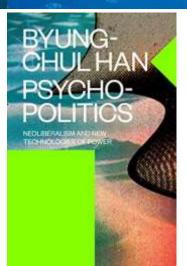
the politics of modelling Andrew Schotz numbers between

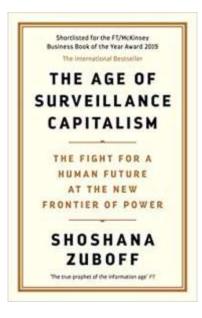
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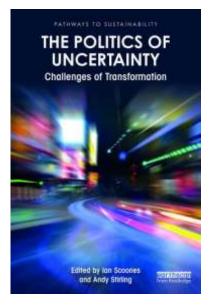


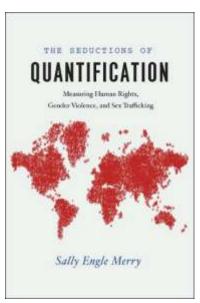


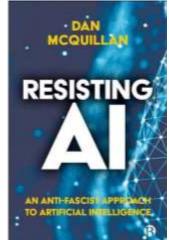


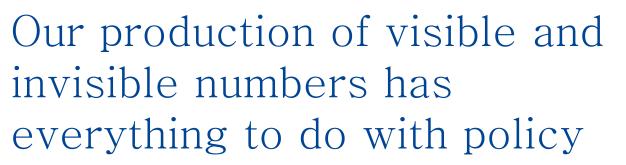




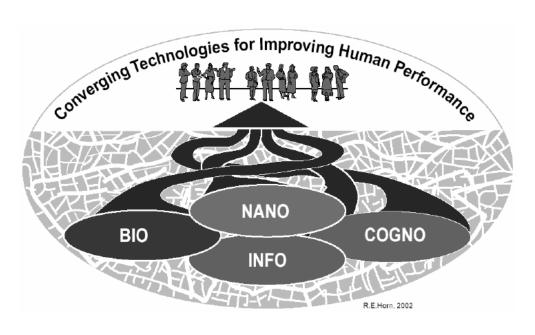








Dirty science → Use of convergent technologies (Bio-Nano-AI- Cognitive Science) in warfare



Roco, M.C., and Bainbridge, W.S. (eds) (2002) Converging technologies for improving human performance, NSF-DOC Report, Kluwer, 2003.



Black Mirror (Hated in the Nation)

What should be done?



Futures

Volume 91, August 2017, Pages 5-11



Volume 104, December 2018, Pages 85-90



What is science's crisis really about?

Andrea Saltelli *, b 久 啓, Silvio Funtowicz *





Environmental Science & Policy

Volume 106, April 2020, Pages 87-98



The technique is never neutral. How methodological choices condition the generation of narratives for sustainability

Andrea Saltelli * 5 A B, Lorenzo Benini *, Silvio Funtowicz *, Mario Giampietro d, e, Matthias Kaiser a, Erik Reinert a, f, Jeroen P, van der Sluijs a, 8, h

SPRINGER LINK





Futures



nature

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COMMENT | 34 June 2000

invite insight, not blame.

Why science's crisis should not become a political battling ground

Andrea, Saltelli 85



Futures

Volume 115, January 2020, 102491



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serve society: a manifesto

Five ways to ensure that models

Pandemic politics highlight how predictions need to be transparent and humble to

Volume 135, January 2022, 102860

By Anatrea Salvet FR. Cabriele Bammer, Inabelle Bruno, Erica Charters, Monico Di Torra, Emmanuel Distay, Wordy Return Esseignal, Junio Ka-

Falls Jr. Tomman: Portable: Toppdate M. Porter, Arnald Pur. Immar Kaltys, Janone K. Bassett, Eric Ramart, Daniel Leswett, Philip B. Stark, Av



Technoscience, policy and the new media. Nexus or vortex?

Andrea Saltelli A. b. & El. Paul-Marie Boulanger Ell



Environmental Science & Policy Volume 142, April 2023, Pages 99-111

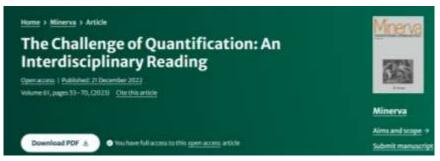


Impact assessment culture in the European Union. Time for something new?

Andrea Saltelli ^{a b} 🙎 🖂 , Marta Kuc-Czarnecka ^c 🔀 , Samuele Lo Piano ^d 🖂 , Máté János Lőrincz ^d ⋈, Magdalena Olczyk ^c ⋈, Arnald Puy ^e ⋈, Erik Reinert ^{f g} ⋈, Stefán Thor Smith d 🖂 , Jeroen P. van der Sluijs b h 🖂

Science, the endless frontier of regulatory capture

Andrea Saltelli * 2 4 Dorothy J. Dankel b, c, Monica Di Fiore d, Nina Holland ", Martin Pigeon "





Environmental Science & Policy

Volume 142, April 2023, Pages 99-111



Impact assessment culture in the European Union. Time for something new?

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Andrea Saltelli a b \bowtie Marta Kuc-Czarnecka <math>a \bowtie Marta Kuc-Czarnecka \bowtie Marta Kuc-Czarnecka \bowtie Marta Kuc-Czarnecka <math>a \bowtie Marta Kuc-Czarnecka \bowtie Marta Kuc-Czarnecka \bowtie Marta Kuc-Czarnecka <math>a \bowtie Marta Kuc-Czarnecka \bowtie Marta Kuc-Czarnecka \bowtie Marta Kuc-Czarnecka \bowtie Marta Kuc-Czarnecka <math>a \bowtie Marta Kuc-Czarnecka \bowtie Marta Kuc-Czarnecka \bowtie Marta Kuc-Czarnecka <math>a \bowtie Marta Kuc-Czarnecka \bowtie Marta Kuc-Czarnecka \bowtie Marta Kuc-Czarnecka <math>a \bowtie Marta Kuc-Czarnecka \bowtie Marta Kuc-Czarnecka \bowtie Marta Kuc-Czarnecka o Ma
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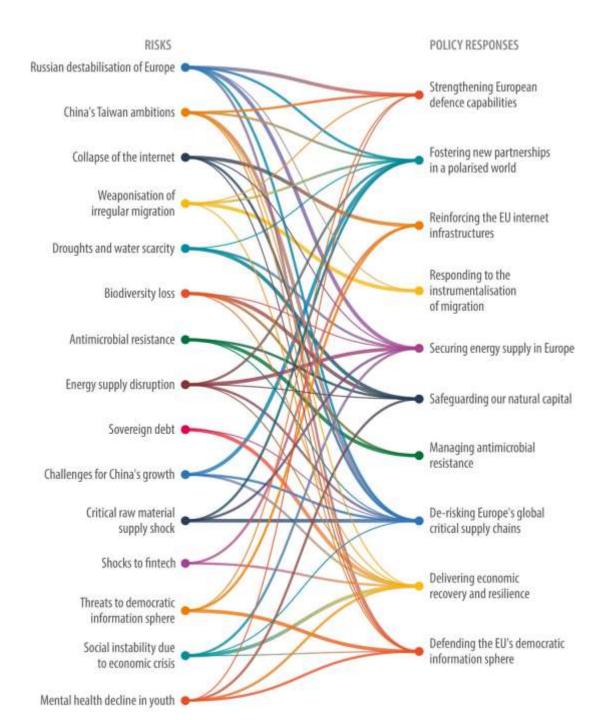
- Current impact assessments in the field of environmental policies suffer from lack of diversity in economic thought,
- A standard neoclassic economic toolbox appears to dominate methodological choices.
- Non-Ricardian economics and bioeconomics can provide some diversity as well as robustness.
- Also useful would be a set of qualitative-quantitative methods derived from post-normal science.
- These new lenses are tested on four different relevant test cases in a European Union context,

Conclusions

Broaden the spectrum of perspective allowed

Domino effects?

Reflect on fragilities generated by framings



Next:

BRIEFING



The use of strategic foresight in Commission impact assessments

Existing practices and the way forward

More material @ andreasaltelli.eu

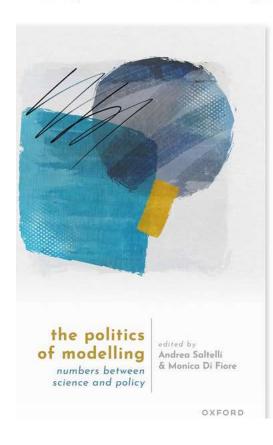


ABOUT ME

PUBLICATIONS NEWS & VIDEOS

RESOURCES

August 25 2023: The politics of modelling is out!



Praise for the volume

"A long awaited examination of the role —and obligation —of modeling."

Nassim Nicholas Taleb, Distinguished Professor of Risk Engineering, NYU Tandon School of Engineering. Author, of the 5 -volume series Incerto.

"A breath of fresh air and a much needed cautionary view of the ever-widening dependence on mathematical modeling." Orrin H. Pilkey, Professor at Duke University's Nicholas School of the Environment, co-author with Linda Pilkey-Jarvis of Useless Arithmetic: Why Environmental Scientists Can't Predict the Future, Columbia University Press 2009.

