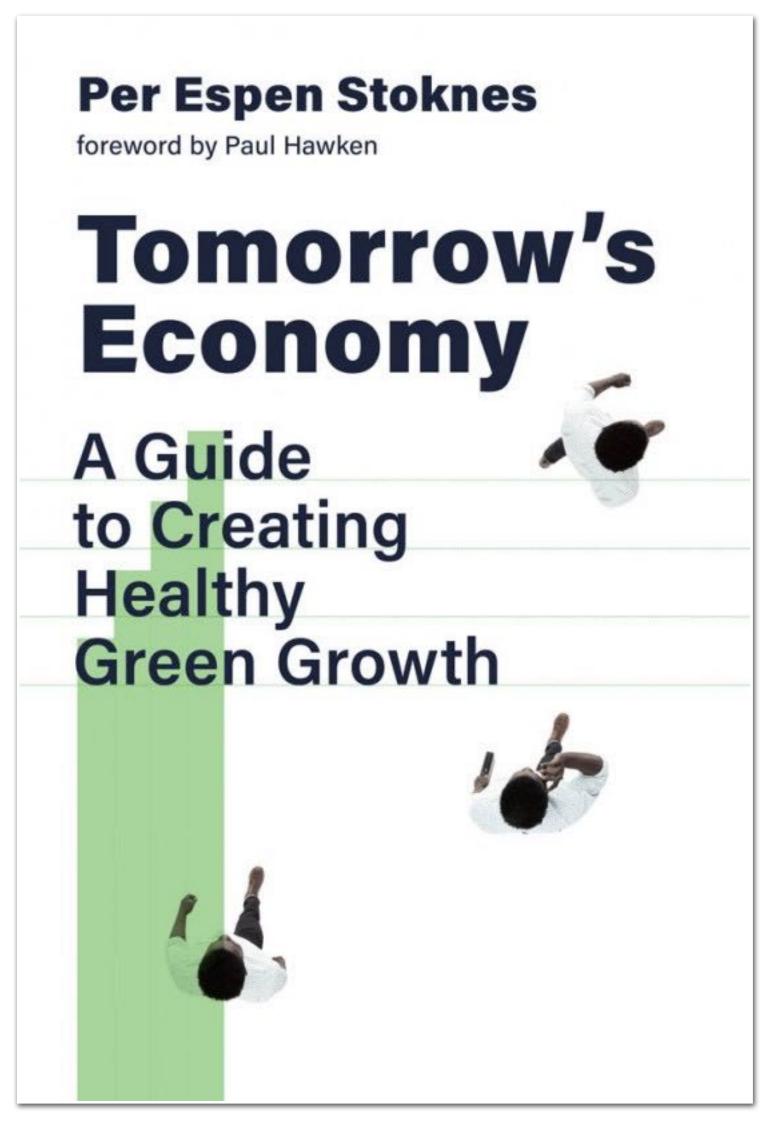
Tomorrow's Economy

Taking the pulse on the green transformation: Healthy or Manic?

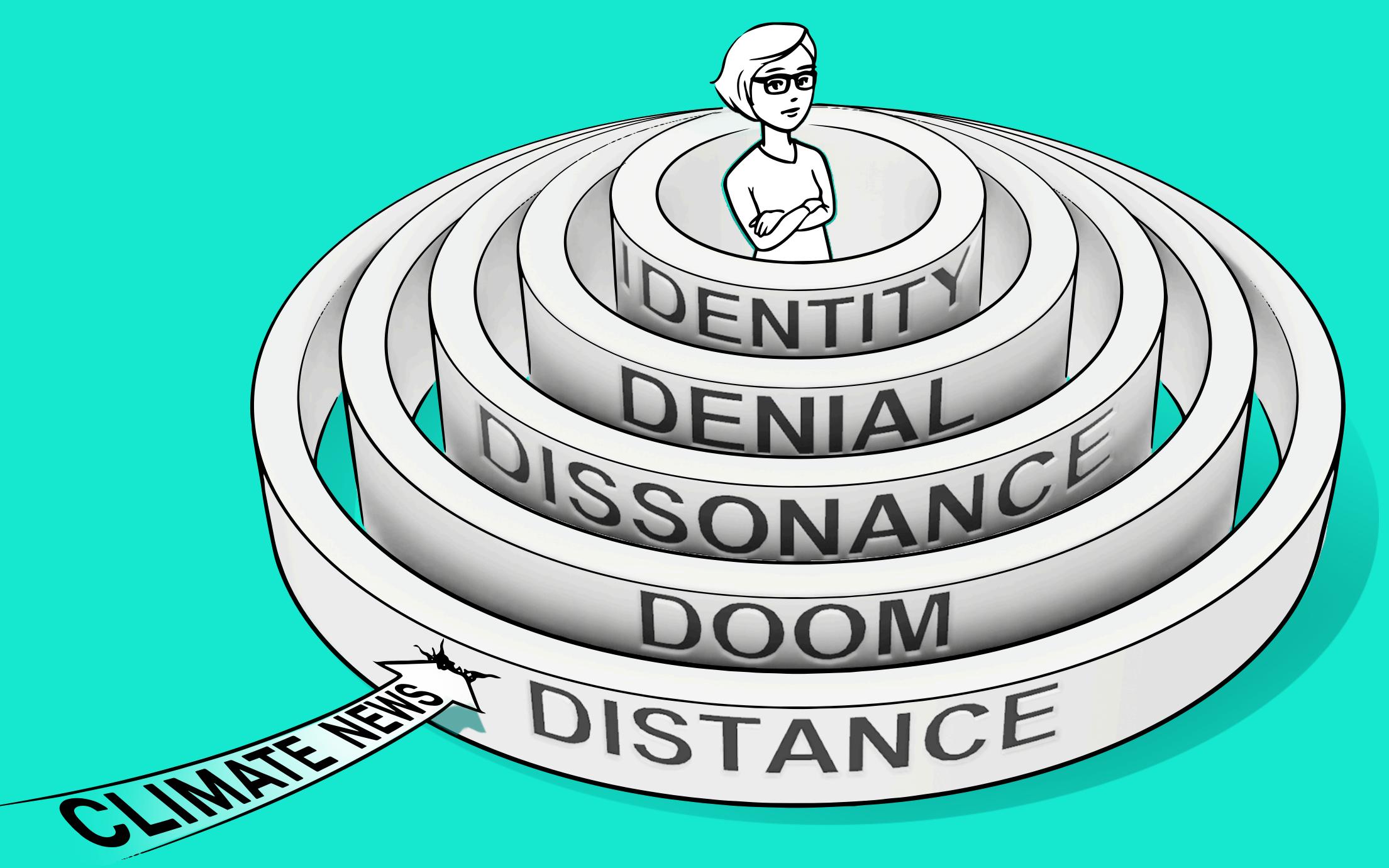
Per Espen Stoknes





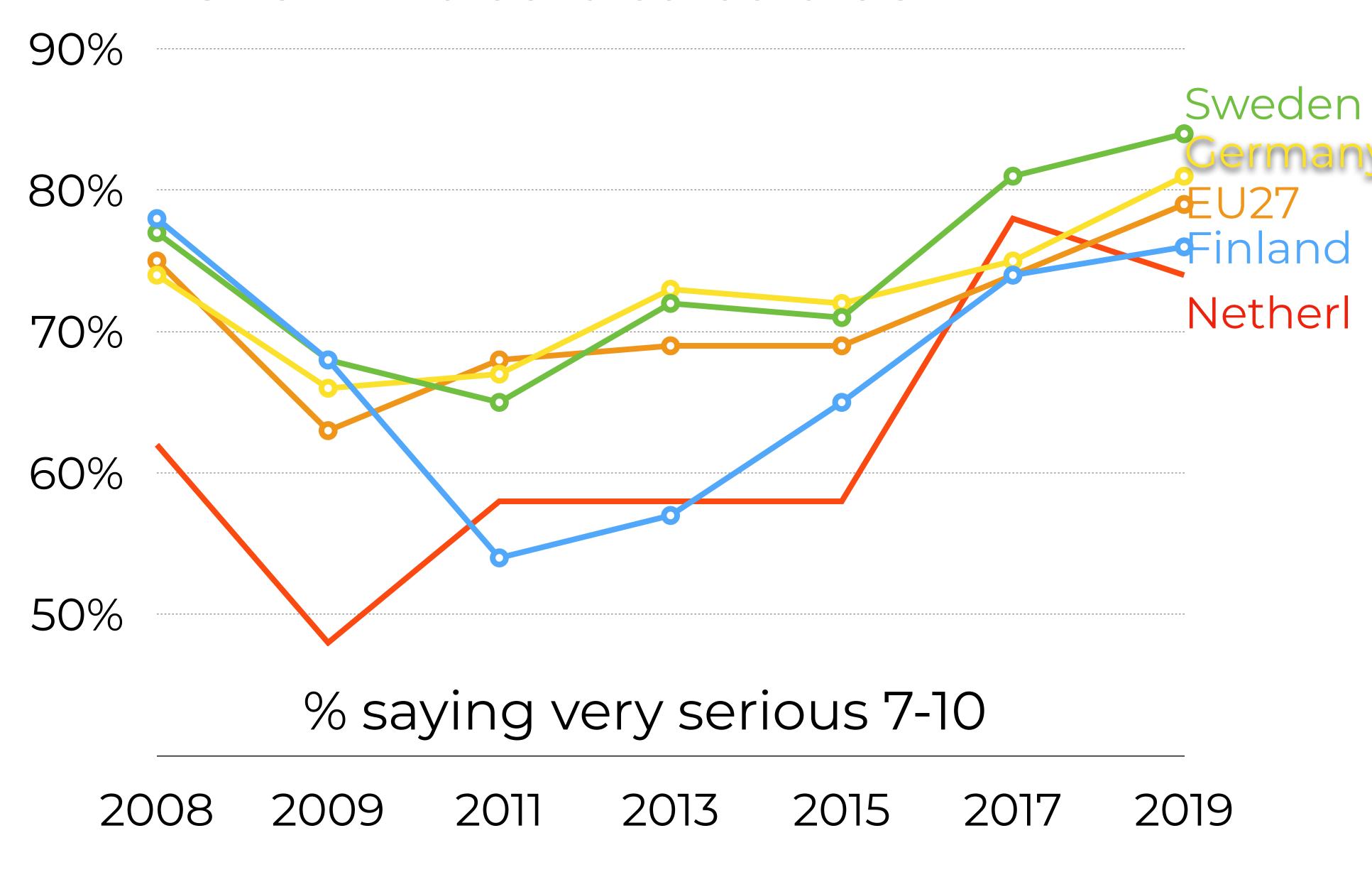


MIT Press, 2021



EU climate attitudes

"How serious a problem do you think global warming / climate change is at this moment, on 1-10?"



2019: "Brutal news" & climate strikes

Sign in Q Search The International edition > Guardian

'Brutal news': global carbon emissions jump to all-time high in 2018

Rapid cuts needed to protect billions of people from rising emissions due to increase in use of cars and coal



▲ Almost all countries are contributing to the rise in emissions, with China up 4.7%, the US by 2.5% and India by 6.3% in 2018. Photograph: Michel Euler/AP

Global carbon emissions will jump to a record high in 2018, according to a report, dashing hopes a plateau of recent years would be maintained. It means emissions are heading in the opposite direction to the deep cuts urgently needed, say scientists, to fight climate change.

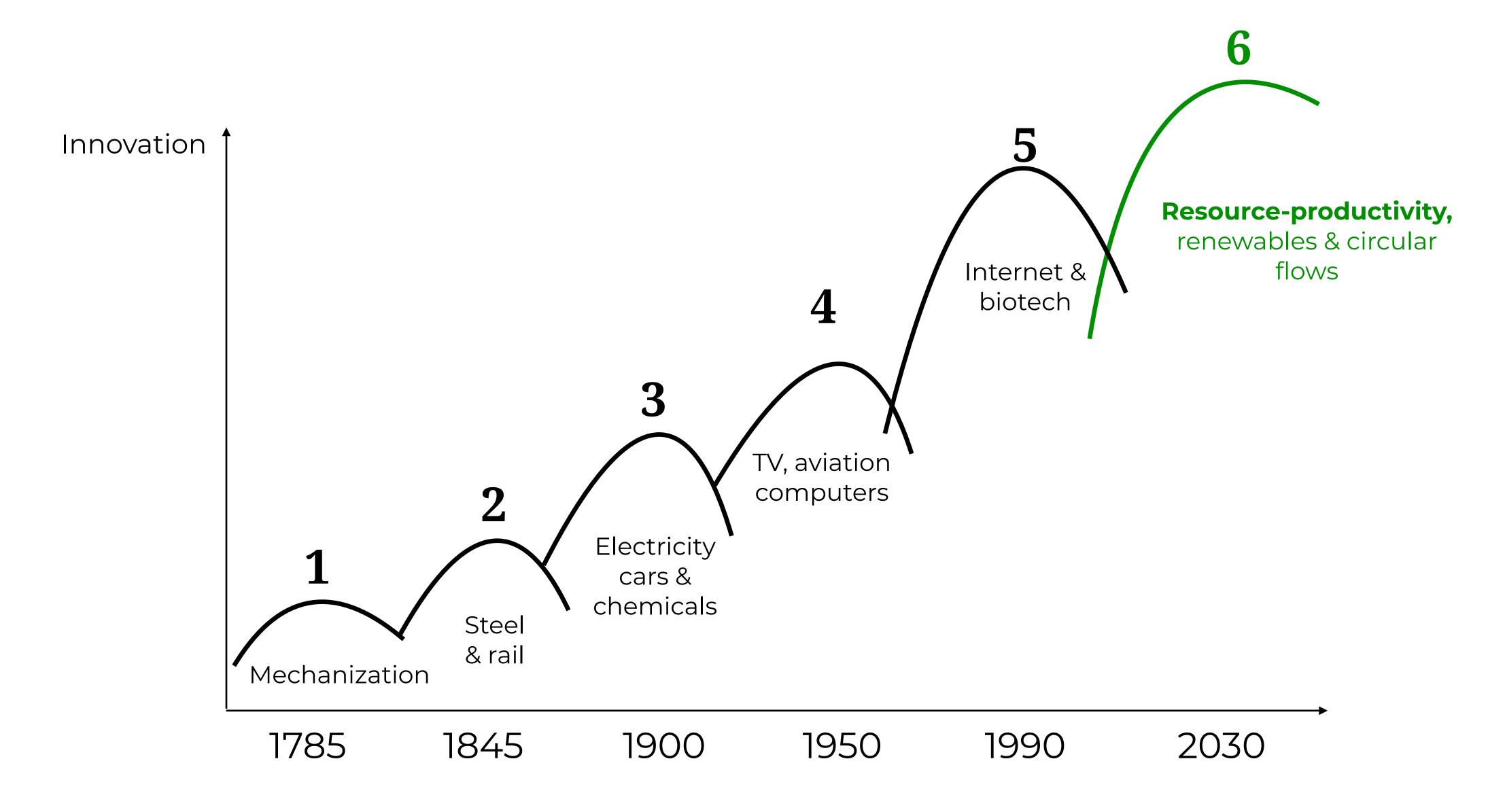




Eternal growth on a limited planet?



Entering the sixth wave



What is green growth?

= increase of economic activitiesthat give lower totalenvironmental impact



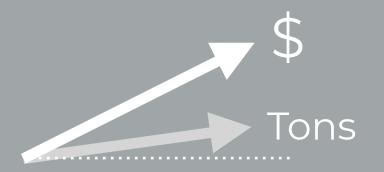
Perceptoductivity

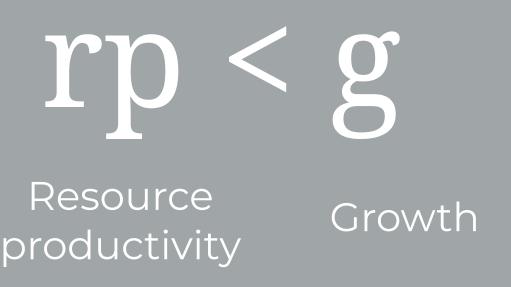
Section 19

Resource

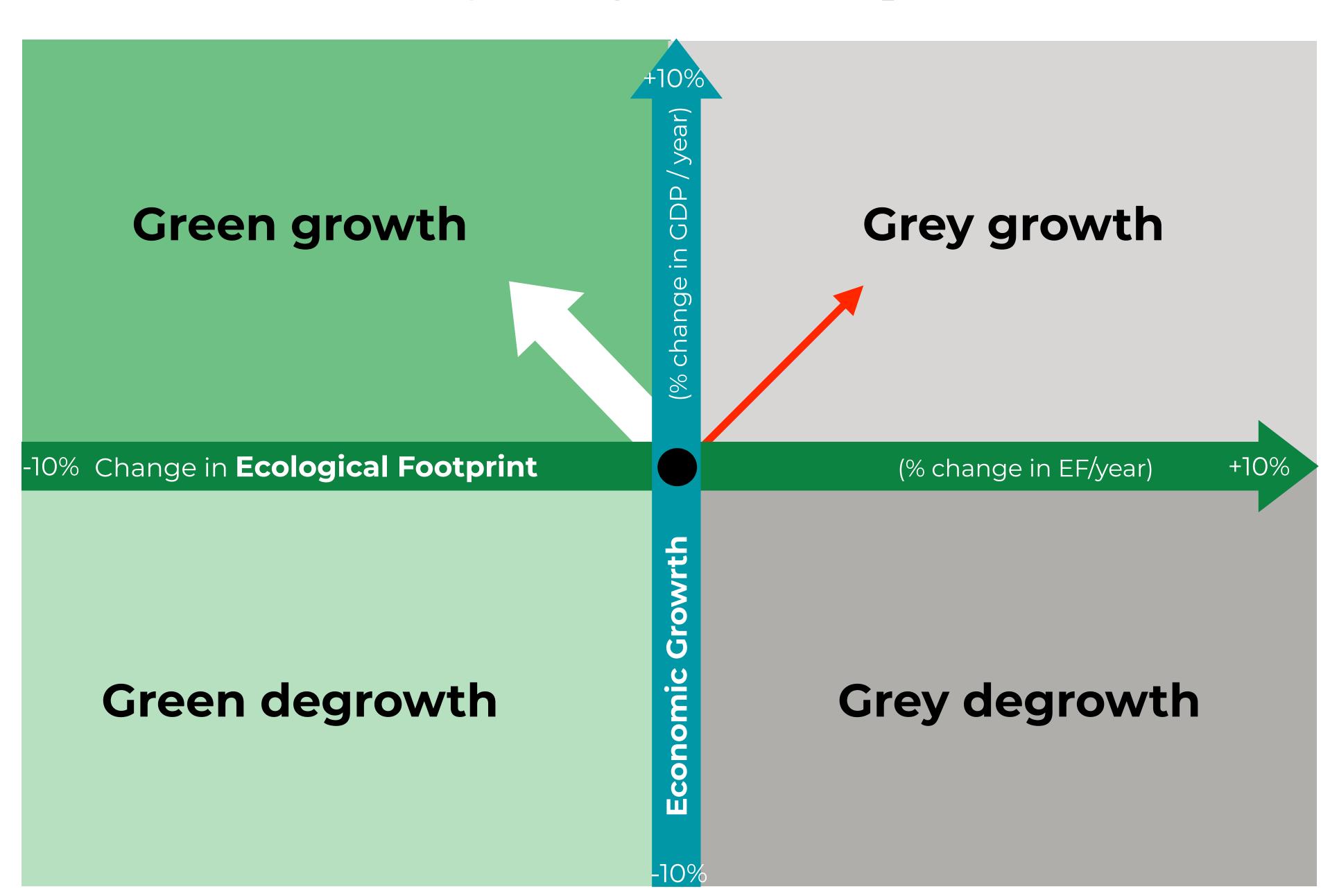
Growth

"Grey growth" is productivity increase where total environmental impact (footprint) grows in spite of higher efficiency



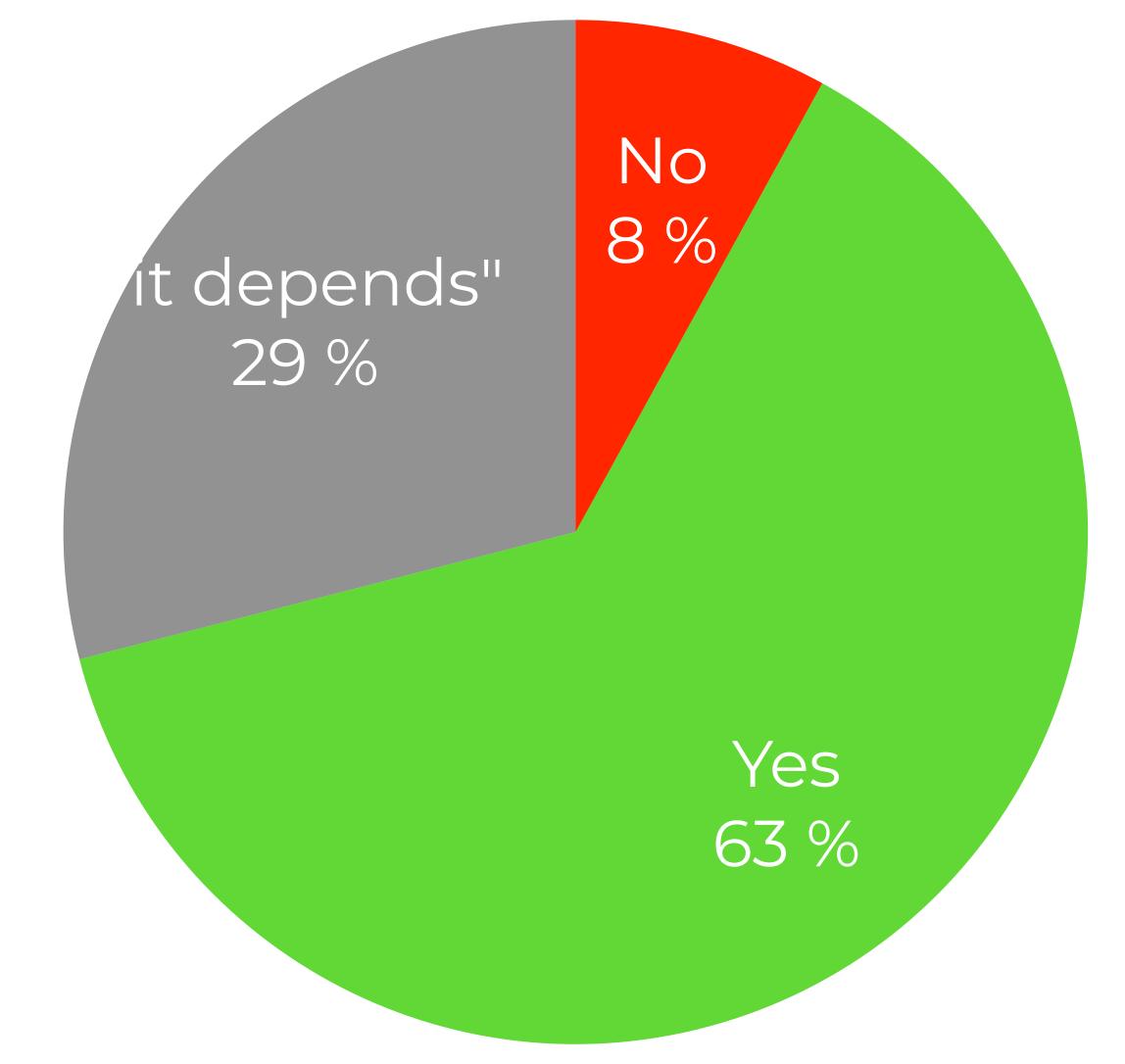


The green growth compass





Are sustainable companies more profitable?



2200 research

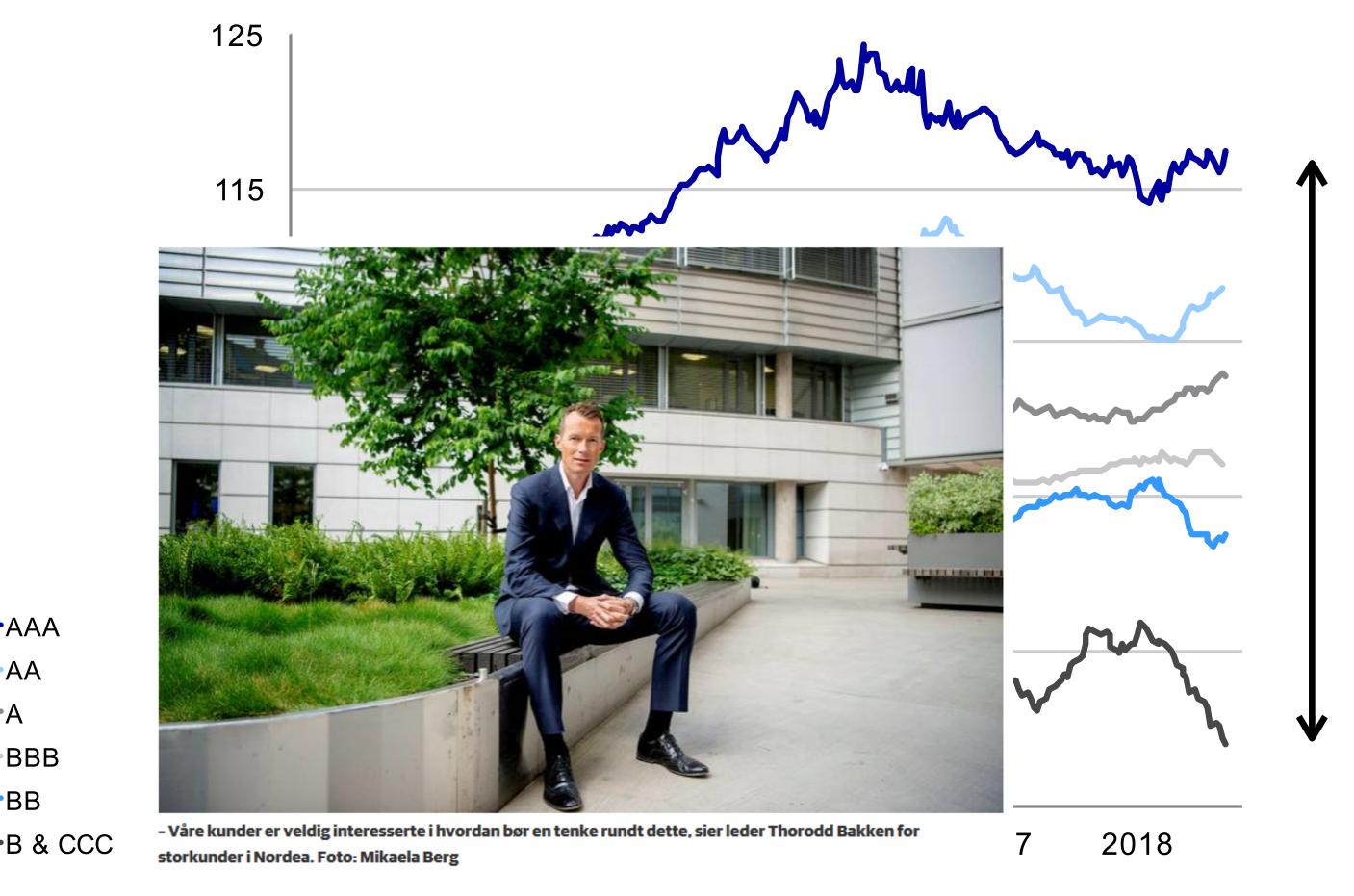
studies show:

"Meta review" - i.e. a review of the previous 60 reviews.

Conclusion: "Roughly 90% of studies find a non-negative ESG-CFP relation"

Is it profitable - in general?

European share price performance by **Environment**, **social governance (ESG)** rating



50%Difference



 Våre kunder er veldig interesserte i hvordan bør storkunder i Nordea. Foto: Mikaela Berg

Nyheter Finans

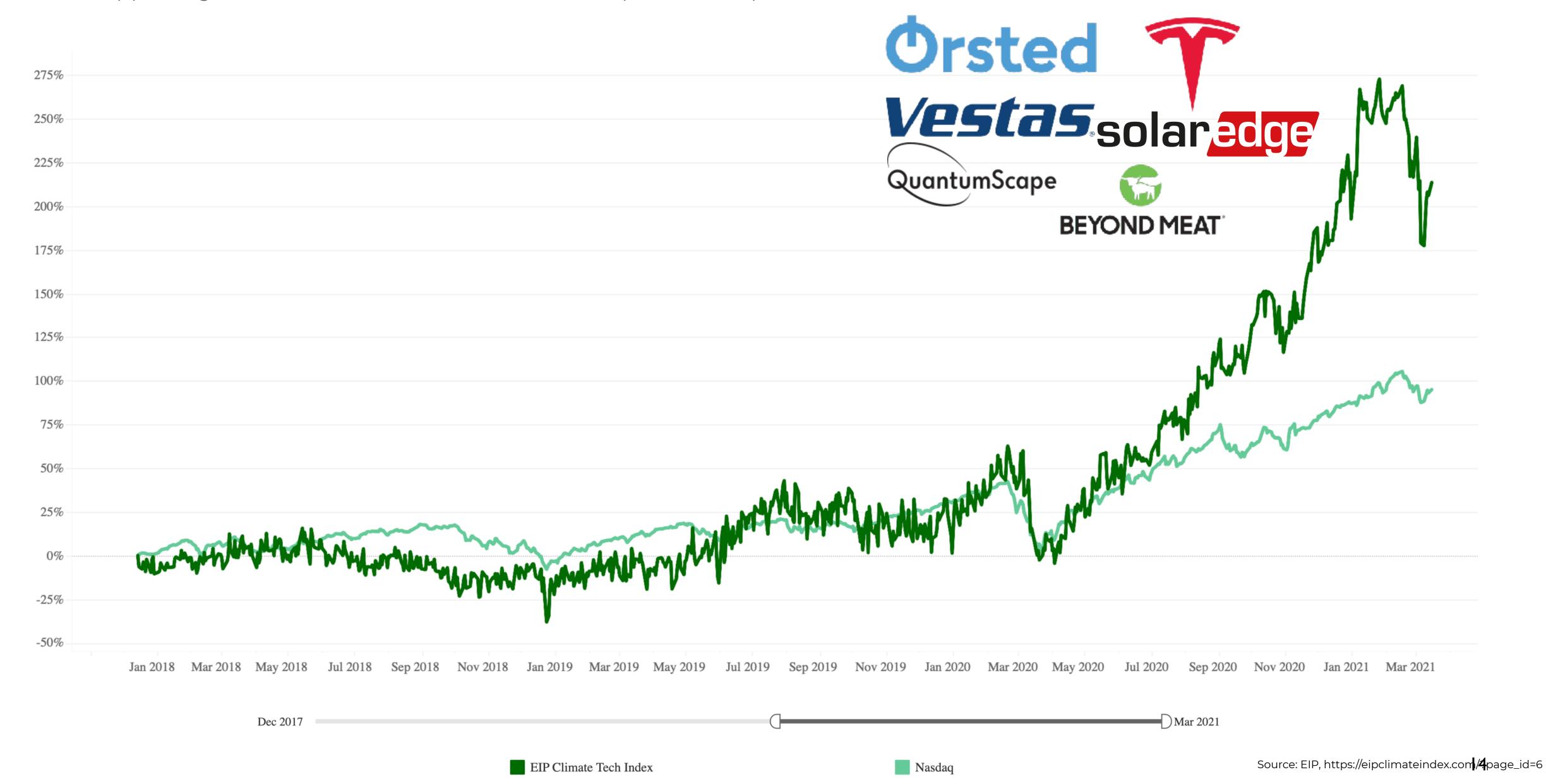
- Å gjøre forret ansvarlig måte forretninger

Nyheter Finans

- Å gjøre forretninger på en

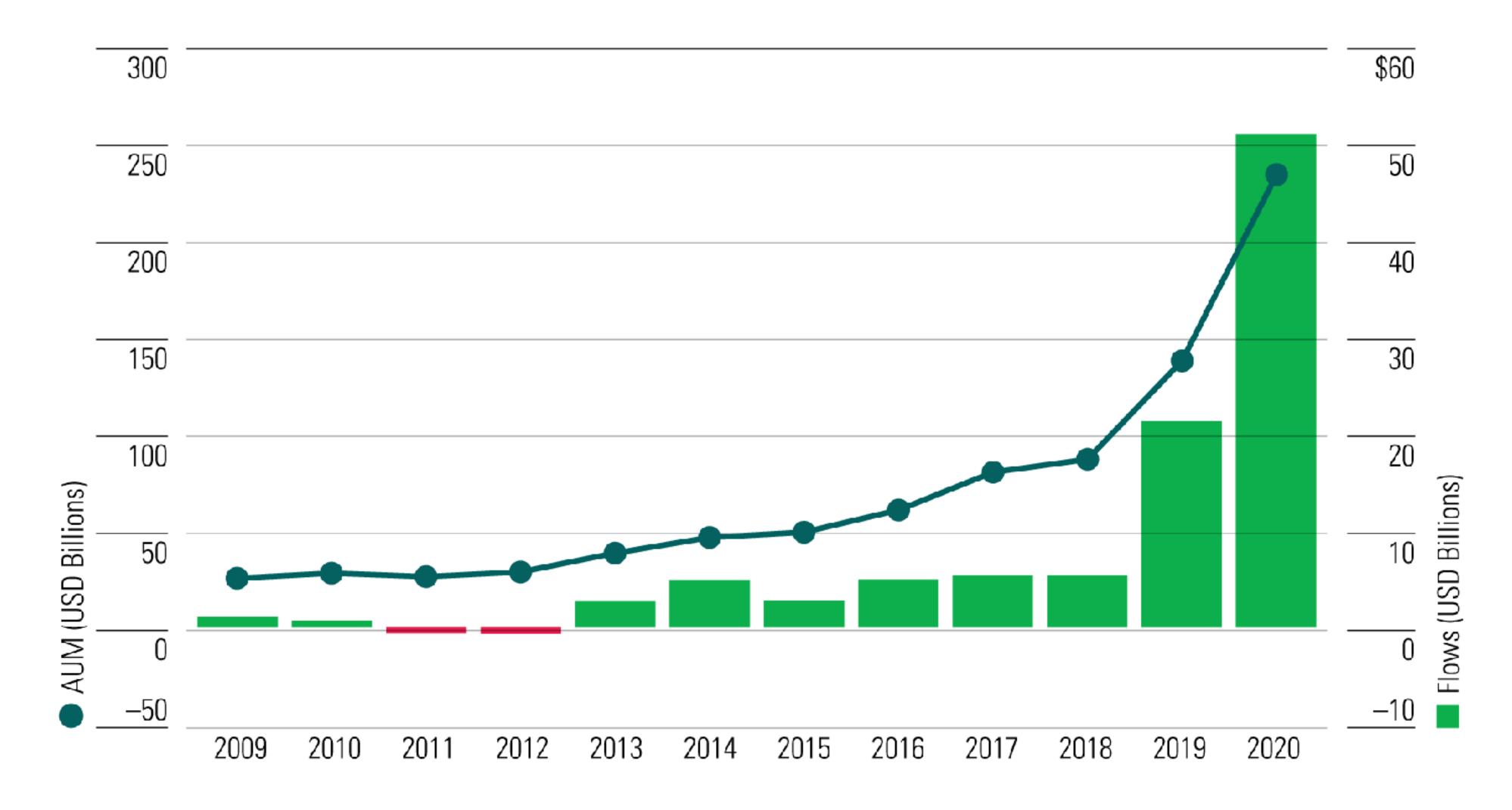
Are green growth companies profitable?

The EIP Climate Tech Index is designed to track the performance of public companies primarily involved in providing technology that supports global decarbonization. The index is updated daily.



Sustainable Funds Annual Flows and Assets

Green Growth

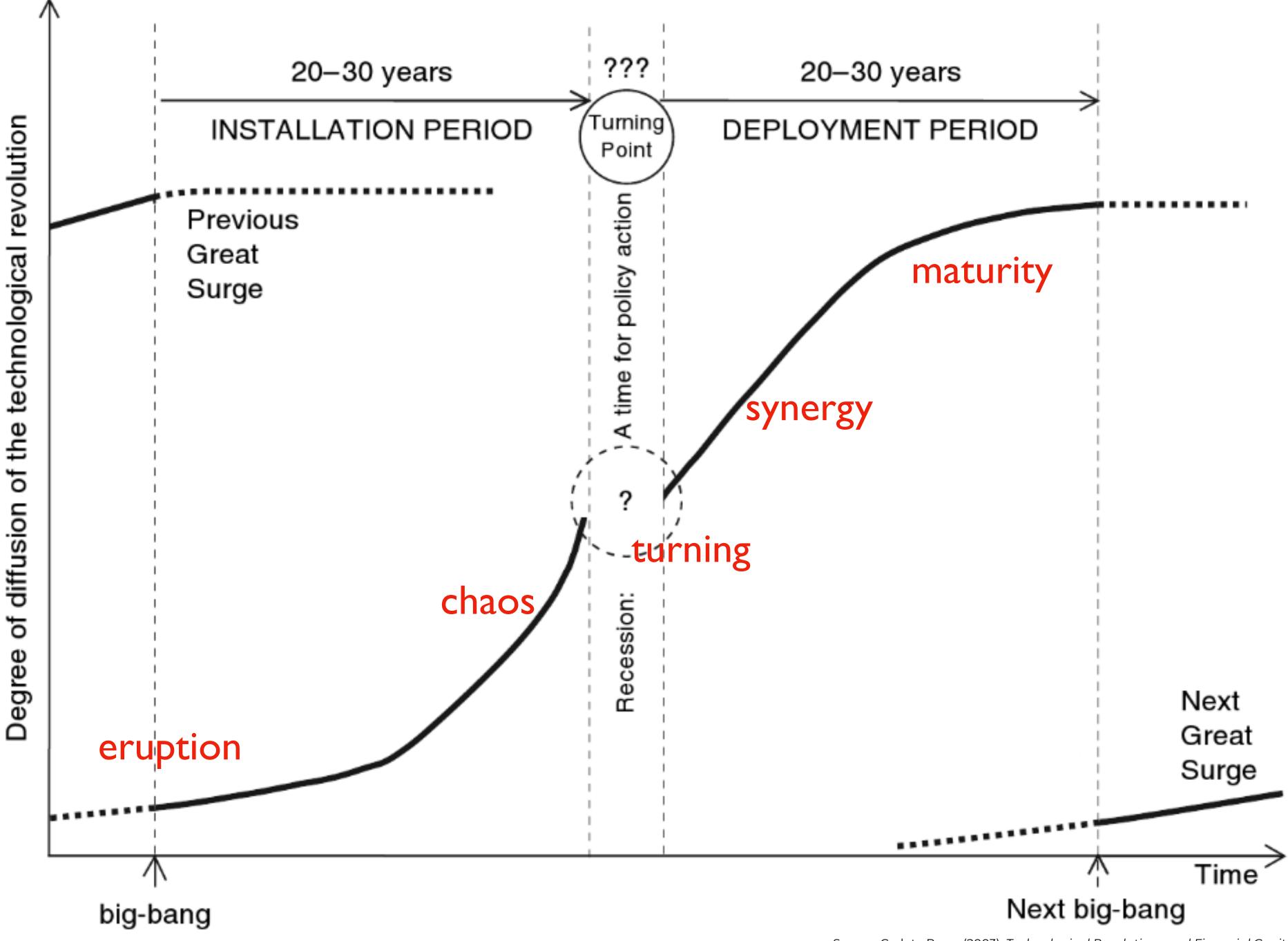


Source: Morningstar. Data as of 12/31/2020.

Includes Sustainable Funds as defined in Sustainable Funds U.S. Landscape Report, Feb. 2020.

Per Esp Includes funds that have been liquidated; does not include funds of funds.

Technoeconomic
paradigm
shifts



Why a green wave now? 7 deep drivers:

- 1. Renewables cost-curves
- 2. **ESG** is suddenly for real
- 3. Material flows go digital and circular
- 4. Financial Climate Risk
- 5. SDG & Paris agreement is humanity's first common plan
- 6. "G3" goes green, net-zero circular + EU taxonomy
- 7. Covid-19 has resurrected the active government

Conclusions

- 1. Problem: Resource wastefulness
- New wave: Shift in innovation from labor to resource productivity
- 3. Profitable: Green is the new black!
- 4. The sixth wave: A deep, accelerating shift, but the timing is unknown

