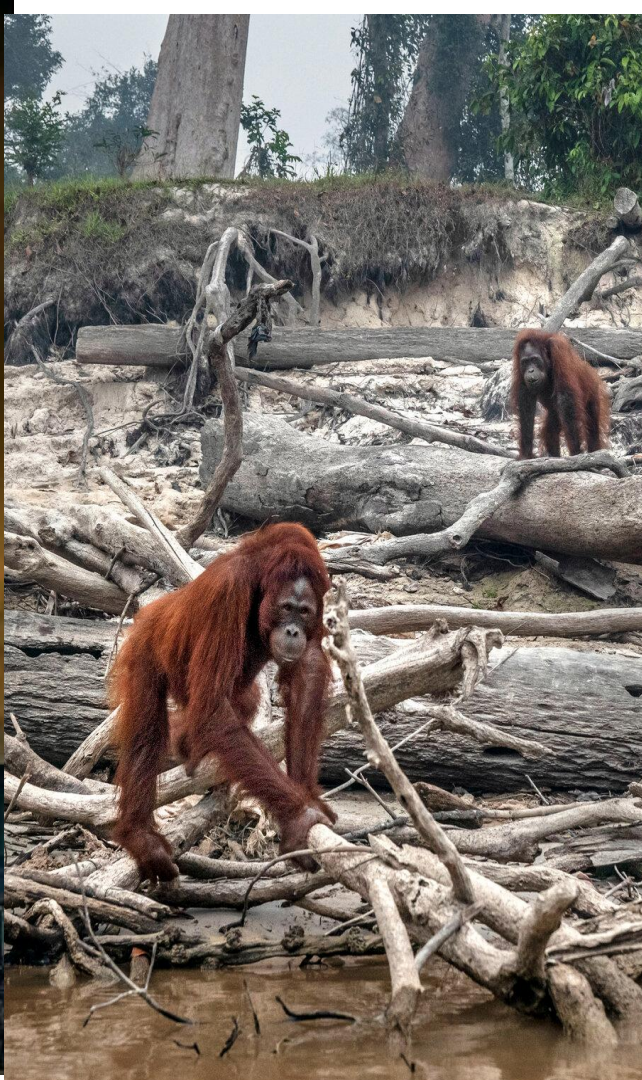


DE EERSTE DUURZAME GENERATIE

Een nieuw duurzaam narratief

Hidde Boersma





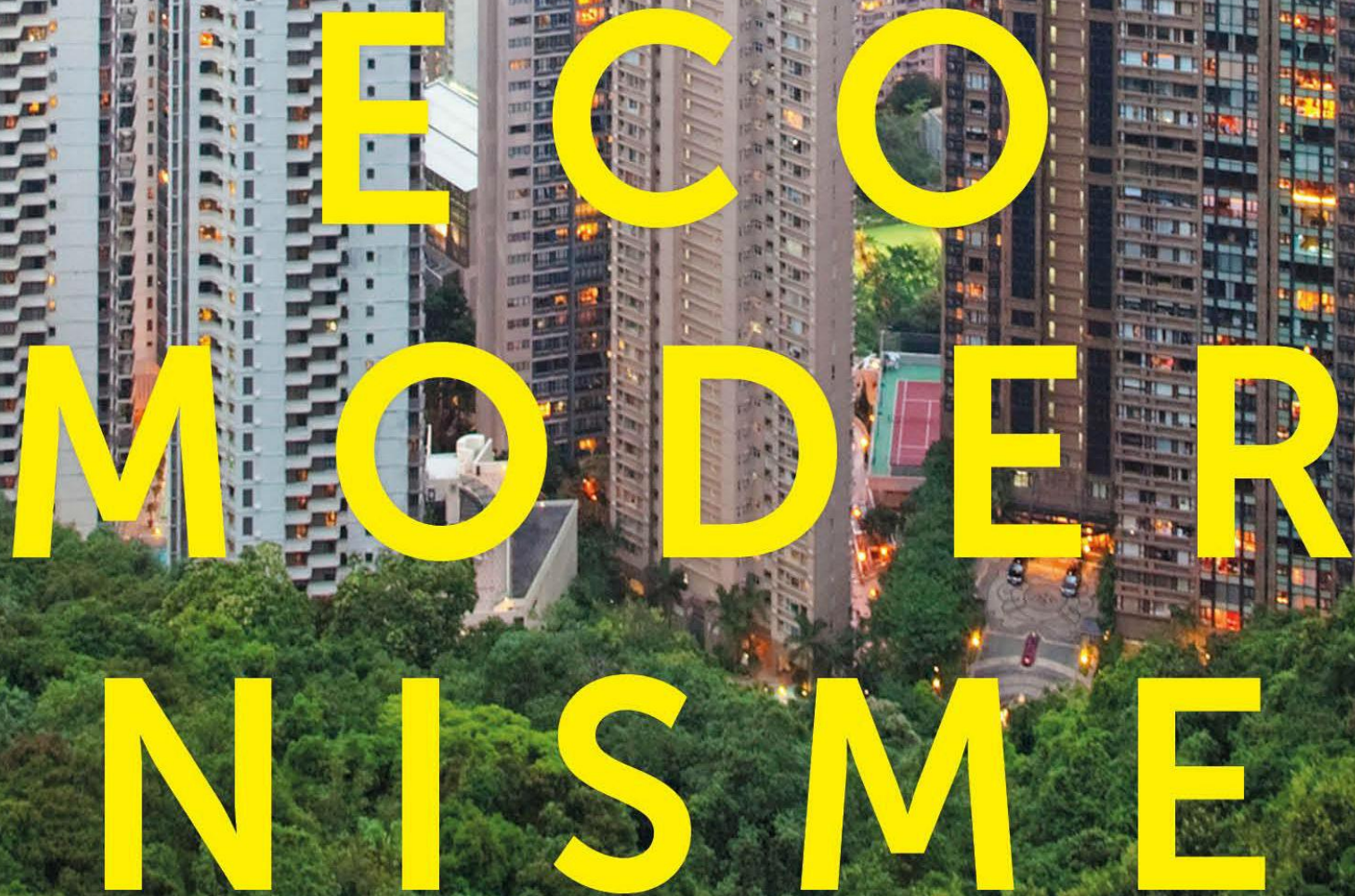
GREENPEACE



milieudefensie







**MECO
MODERNISM**



DE EERSTE
DUURZAME
GENERATIE





GROEI



DURE



MAAK RIJNTE

GROEI

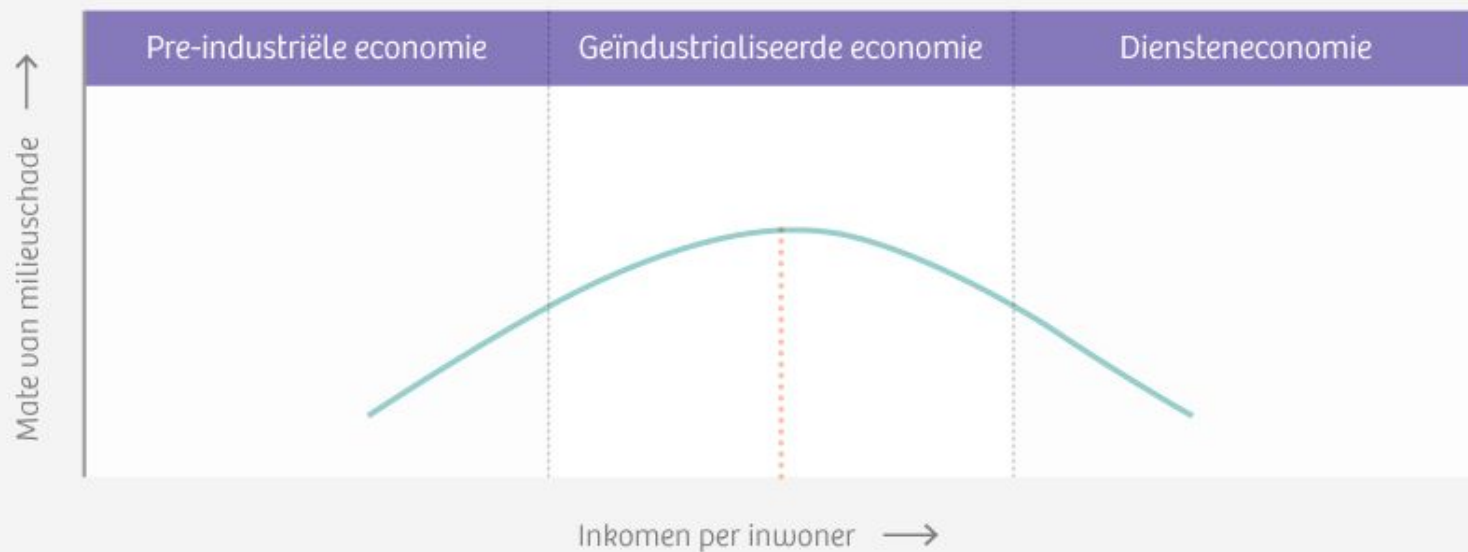
WAAROM ECONOMISCHE GROEI EEN VOORWAARDE IS VOOR DUURZAAMHEID

Environmental Kuznets Curve

in drie economische fases

— Ontwikkeling

● ● Keerpunt

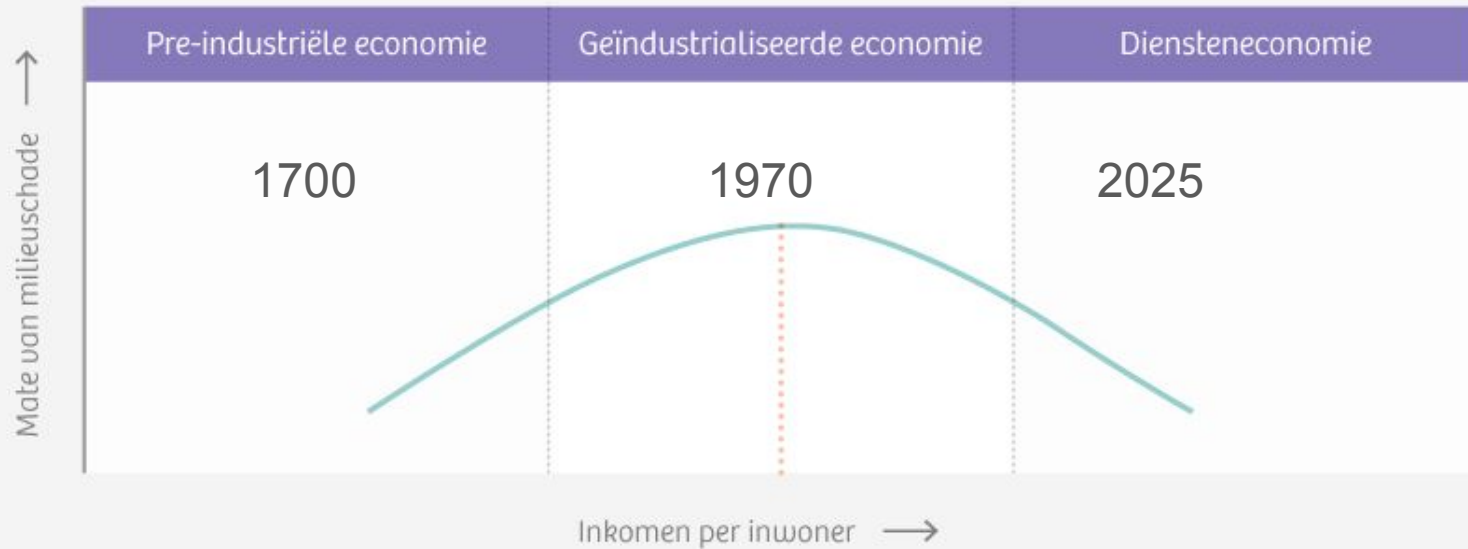


Environmental Kuznets Curve

in drie economische fases

Ontwikkeling

Keerpunt

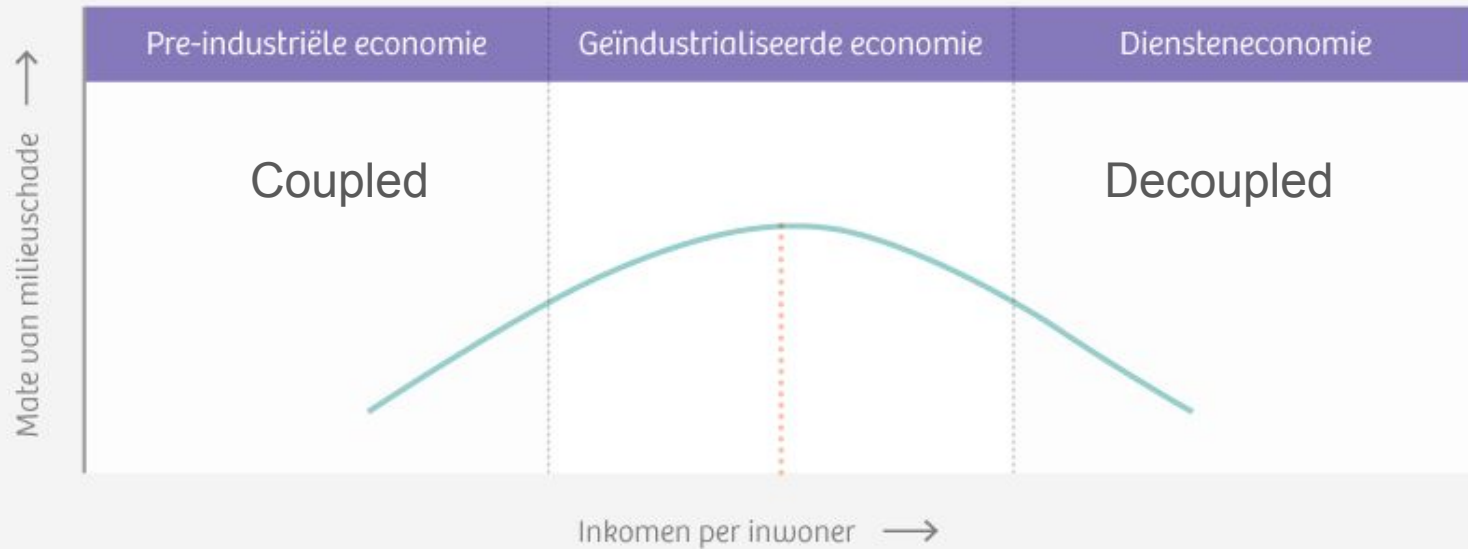


Environmental Kuznets Curve

in drie economische fases

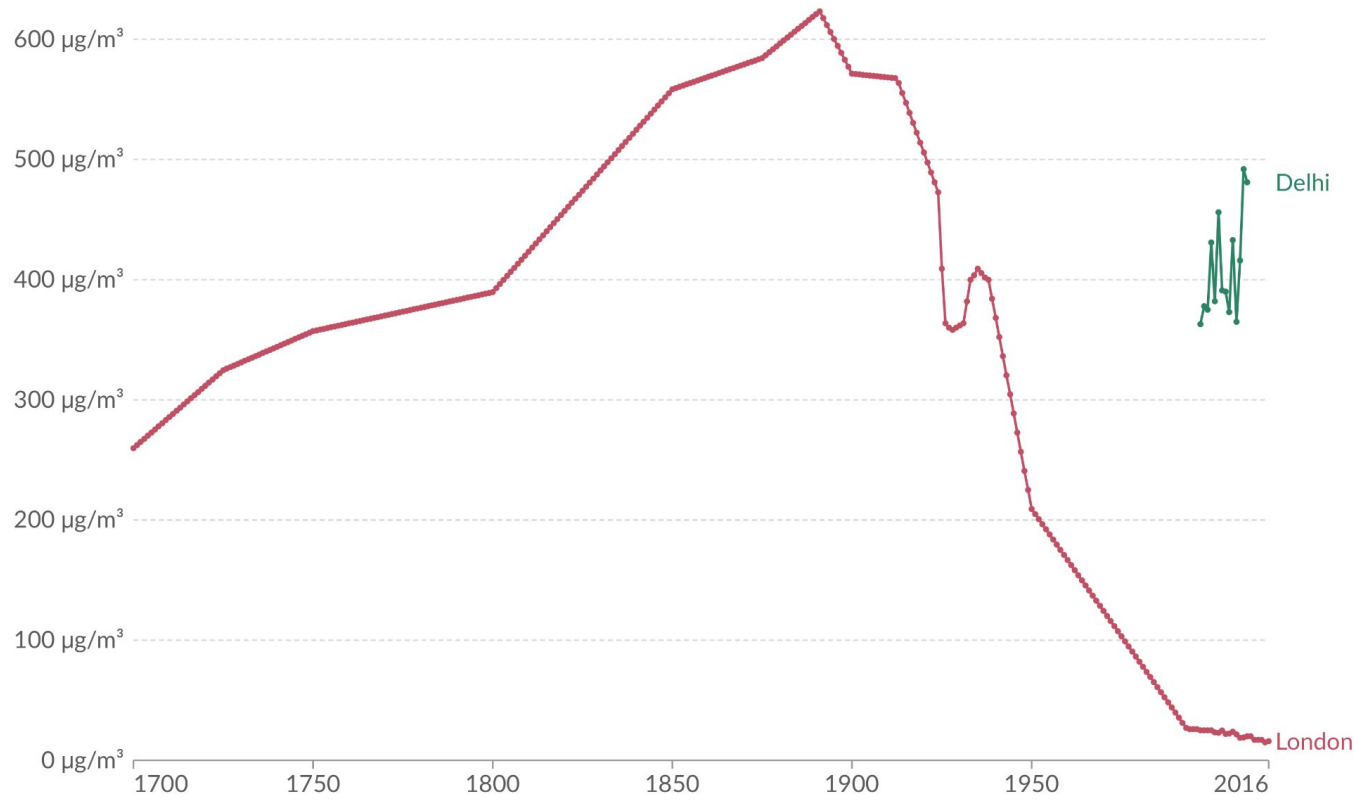
— Ontwikkeling

● ● Keerpunt



Air pollution, 1700 to 2016

Average concentrations of suspended particulate matter, measured in micrograms per cubic meter.

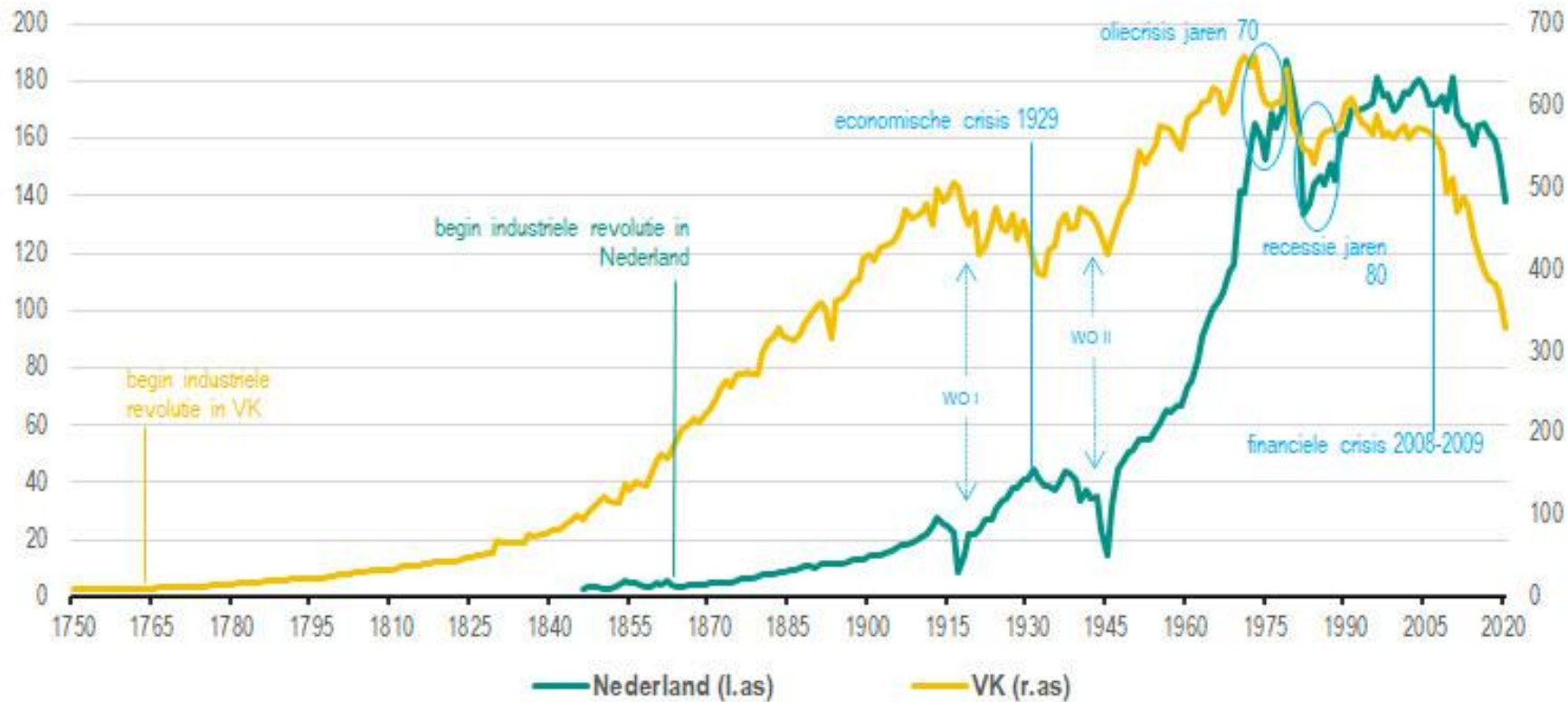


Data source: Fouquet (2011) and Government of India (2012-13)

OurWorldInData.org/air-pollution | CC BY

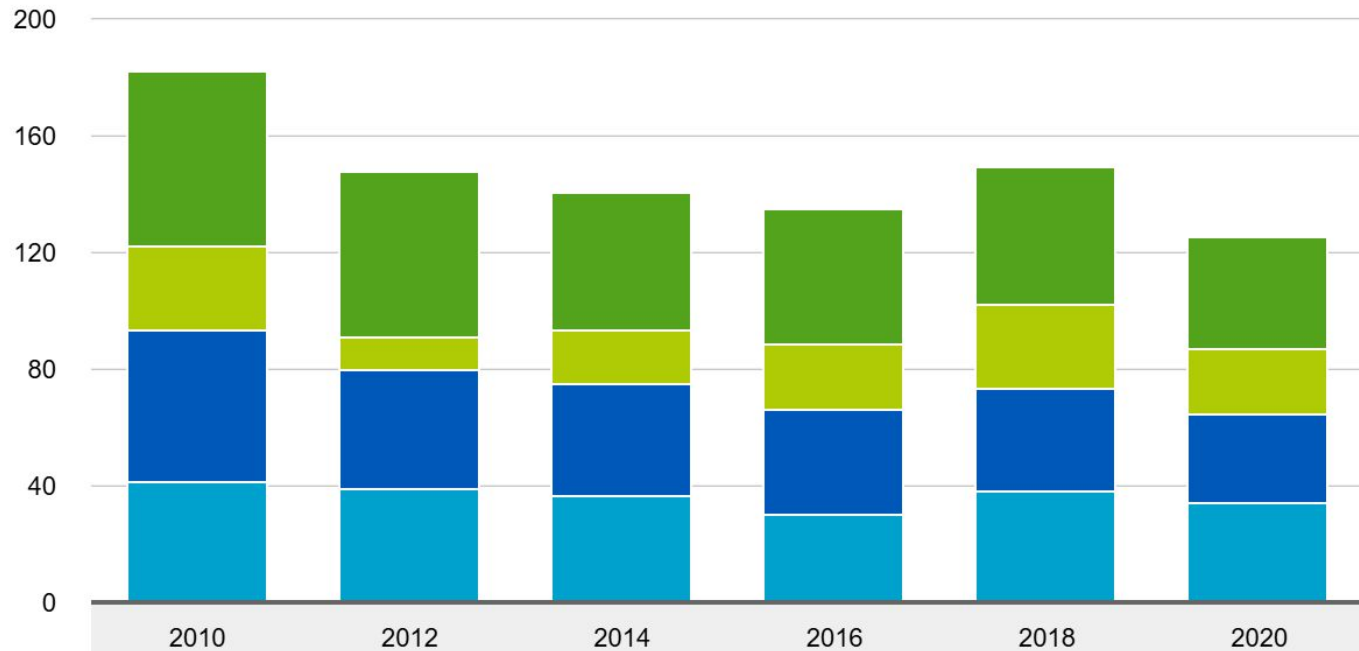
CO2 emissies (mln ton)

CO2 emissies (mln ton)



Grondstofvoetafdruk Nederlandse consumptie

miljard kg



 Biomassa  Niet-metaal mineralen  Metalen  Fossiele energiedragers

HUMAN FLOURISHING



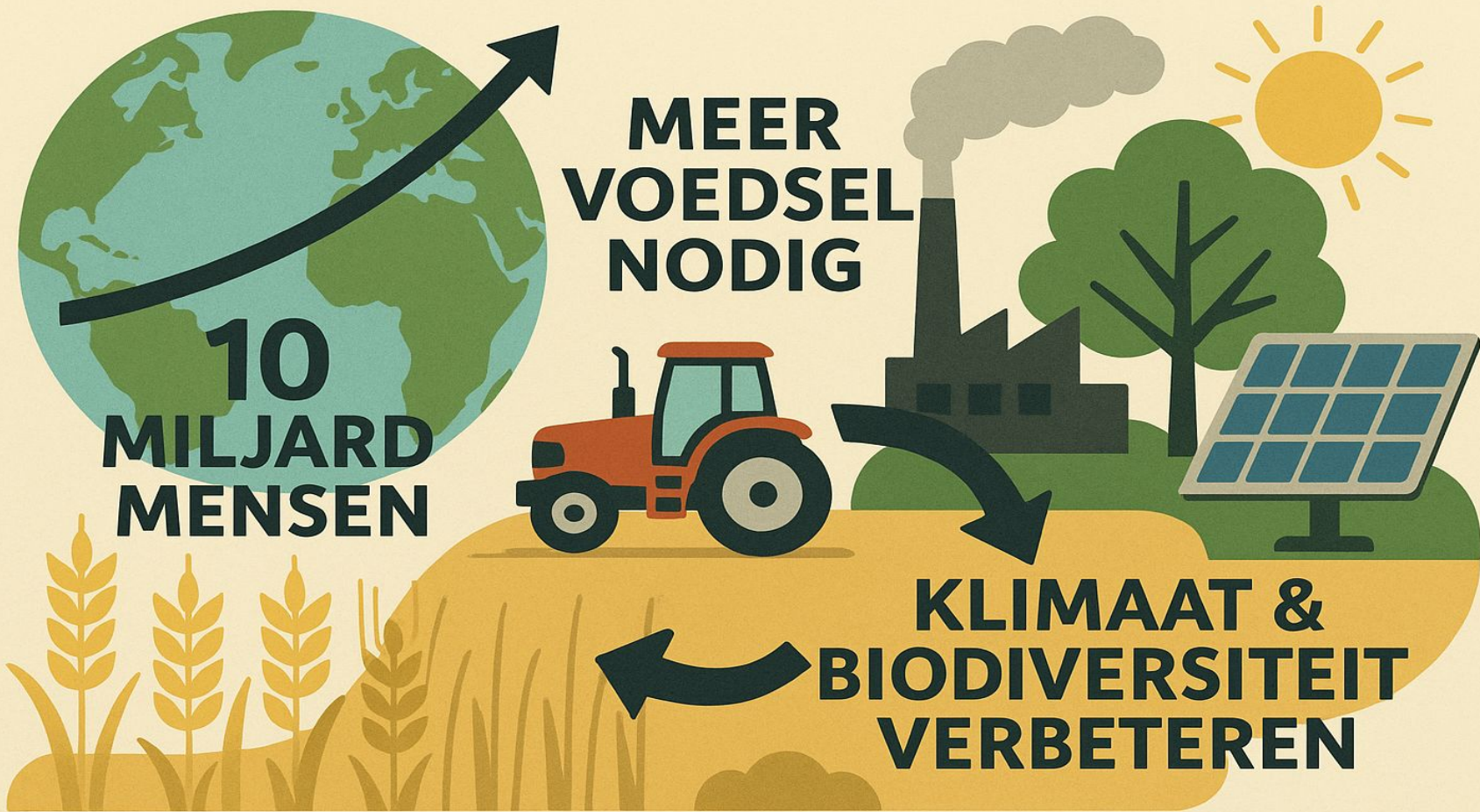
PLANET FLOURISHING



MAAK

RUIMTE

PROBLEEM VAN DE 21STE EEUW





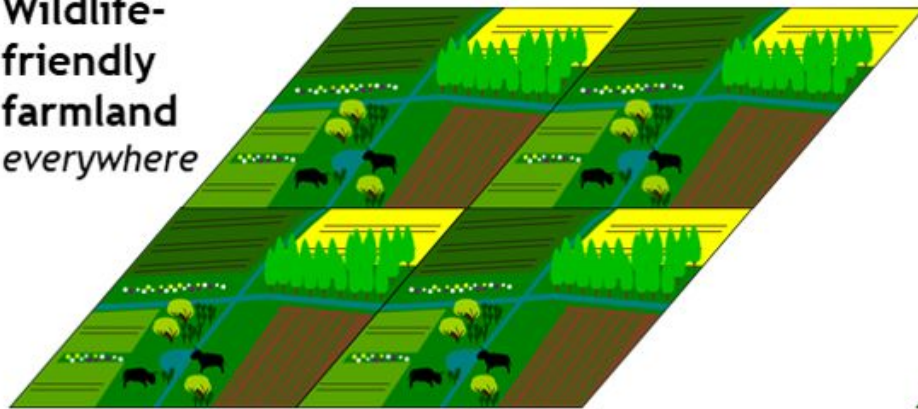
**EAT
LESS
MEAT**

**REDUCE
FOOD
WASTE**



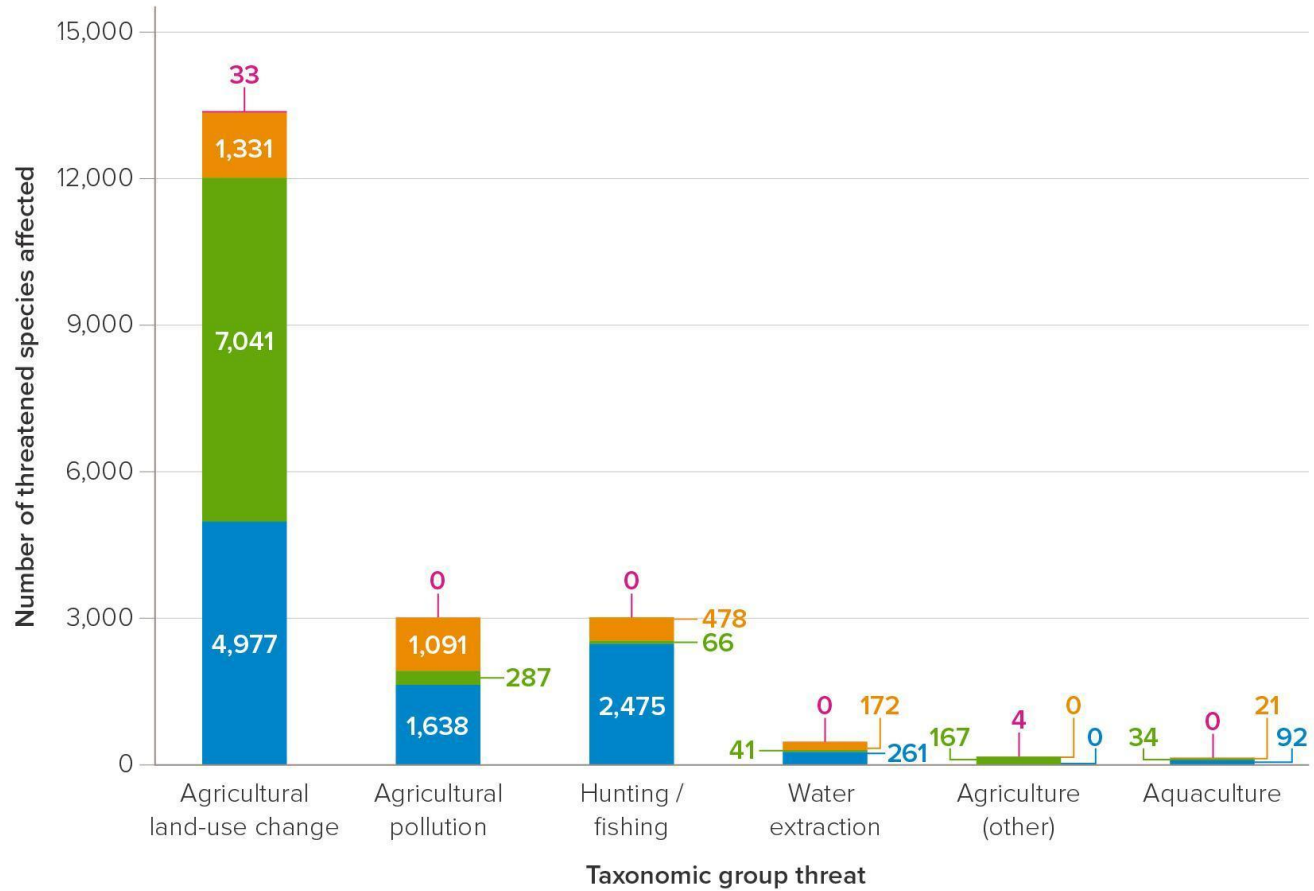
Land sharing

Wildlife-
friendly
farmland
everywhere



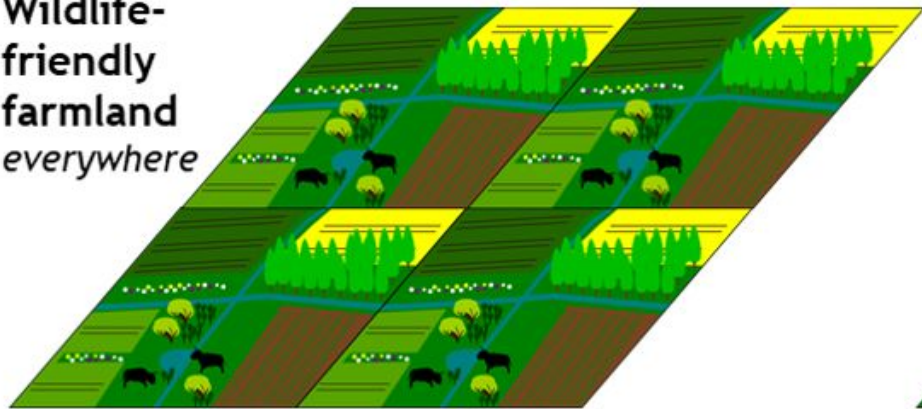
Entire region managed as *wildlife-friendly* farmland, which *shares* the function of food production & biodiversity conservation.

To maintain overall food production, there's no room for natural habitat.

KEY

Land sharing

Wildlife-friendly farmland everywhere

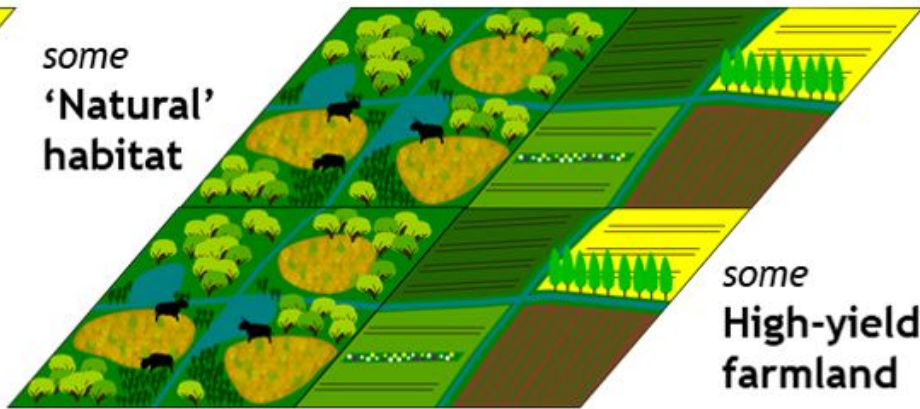


Entire region managed as *wildlife-friendly* farmland, which *shares* the function of food production & biodiversity conservation.

To maintain overall food production, there's no room for natural habitat.

Land sparing

some 'Natural' habitat



some High-yield farmland

High-yield farmland delivers food production over a smaller area...

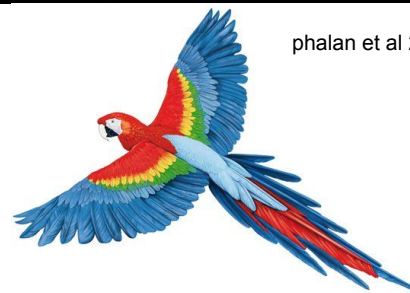
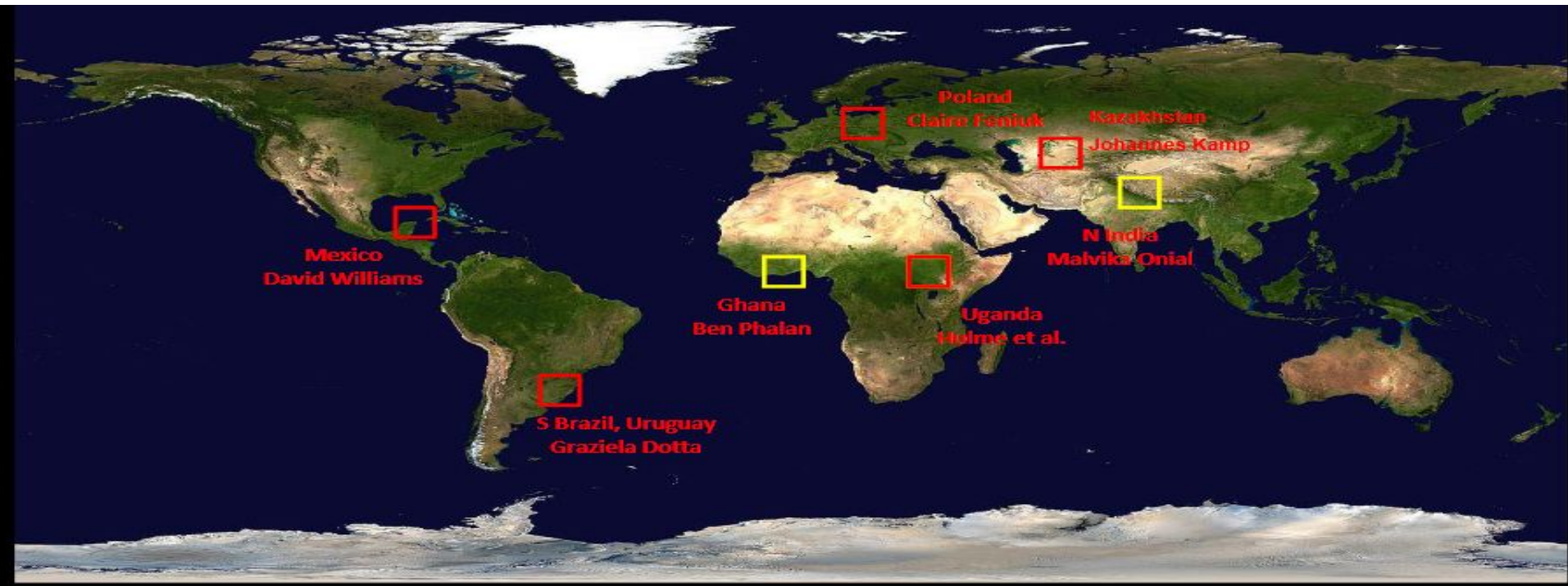
... so land elsewhere in the region can be *spared* as natural habitat.



Organic farming with 40 % lower biodiversity gap in the area under cultivation than conventional farming.



Conventional farming with 58 % less required farmland to produce the same production quantity as organic farming.



NU



STRAKS



The world has passed peak agricultural land

While sources disagree on how much land we use for agriculture, many suggest that the world has passed the peak. This is due to a reduction in global land used for pasture*. Global cropland use continues to increase.

Global agricultural land use (croplands plus pasture for livestock)

5 billion hectares

4 billion hectares

3 billion hectares

2 billion hectares

1 billion hectares

0 hectares

1000 1200 1400 1600 1800 1900 2000

Agricultural land use increased rapidly from the year 1700. By 1960, it had more than quadrupled.

Peaks in 2000

HYDE 3.2 – Goldewijk et al. (2017)

- Measured from national census data, combined with gridded data of population density and land modelling
- Estimates global agricultural land use peaked around 2000

UN Food and Agriculture Organization (FAO)

- Measured from national census data; country reports; and expert estimates
- Global agricultural land use peaked around 2000

Taylor and Rising (2021)

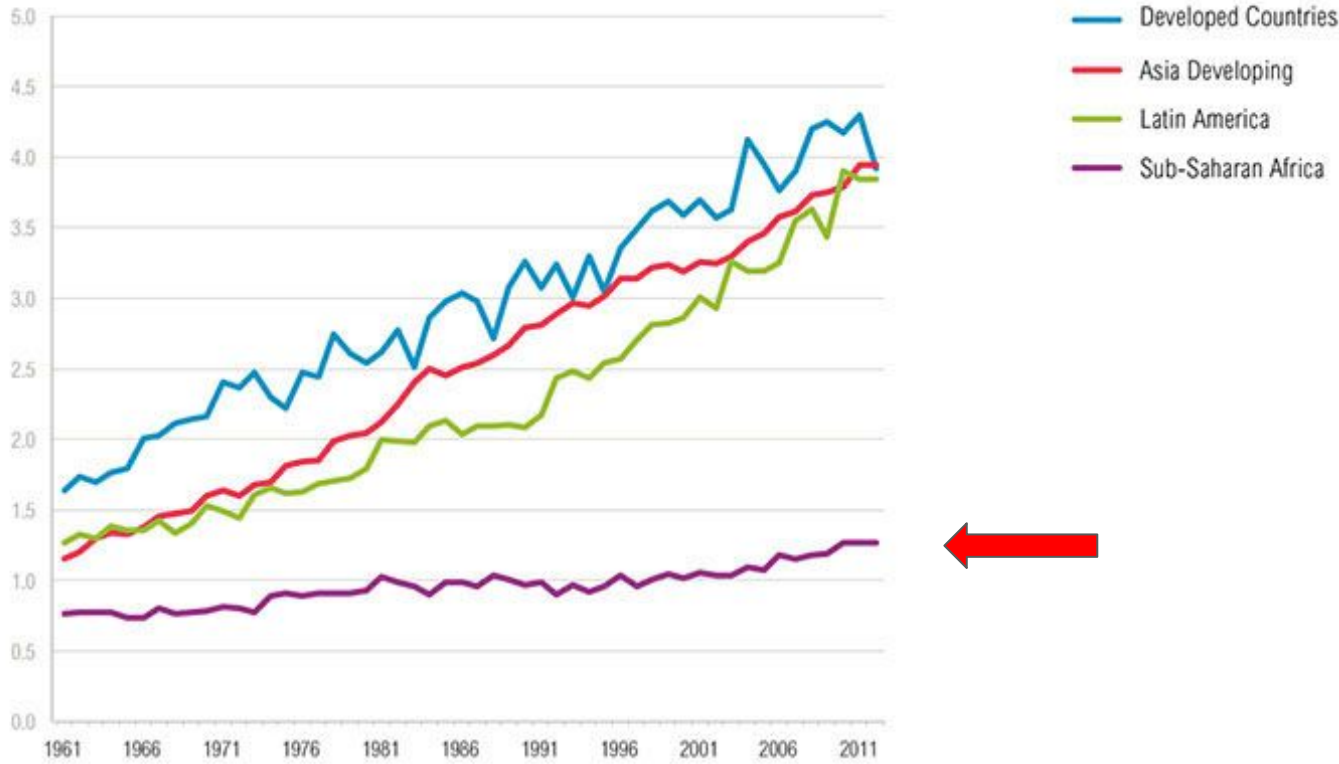
- Measured from national census data, combined with gridded data of population density and land modelling
- Global agricultural land use peaked in the 1990s

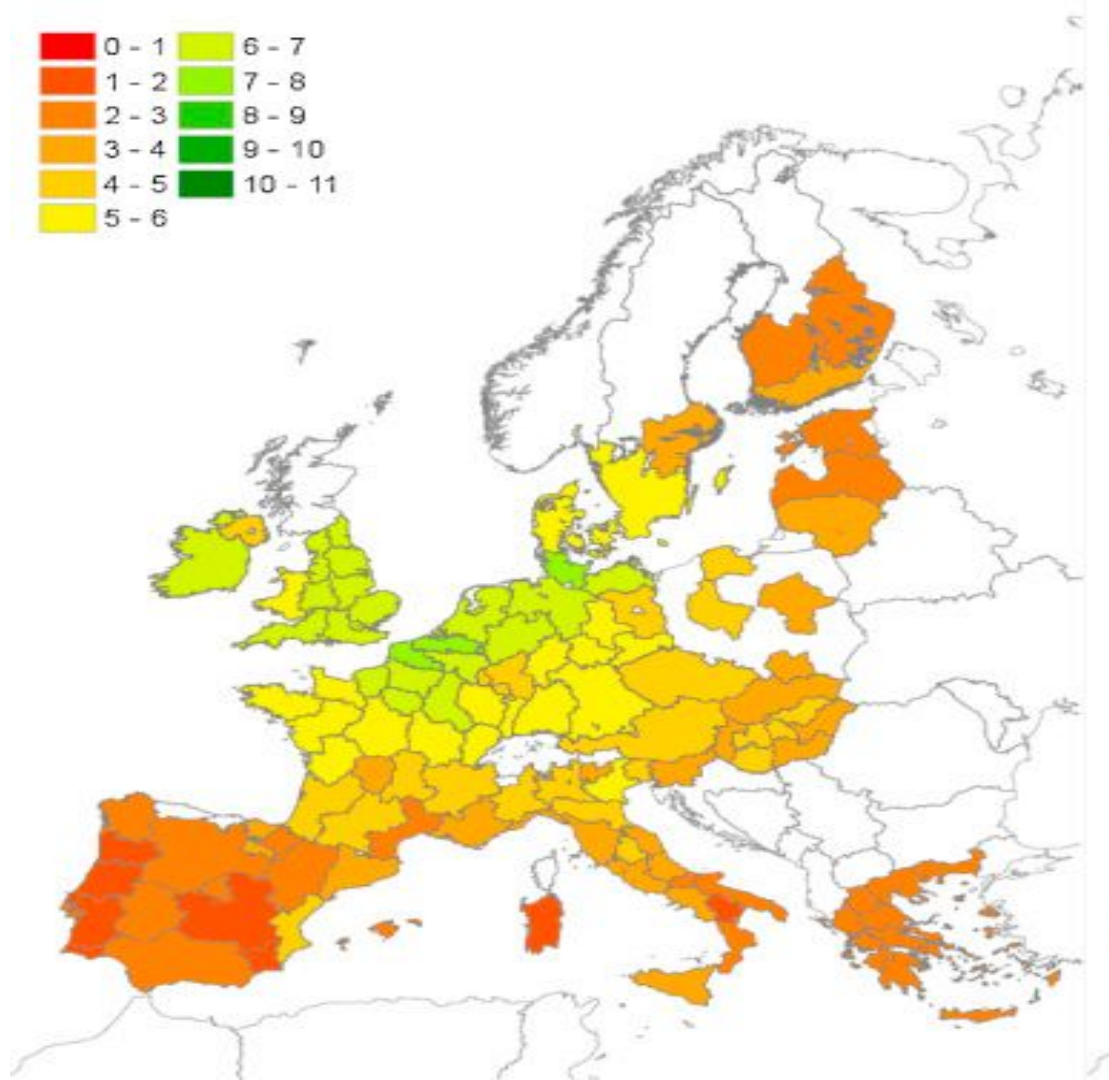
Peaks in 1990

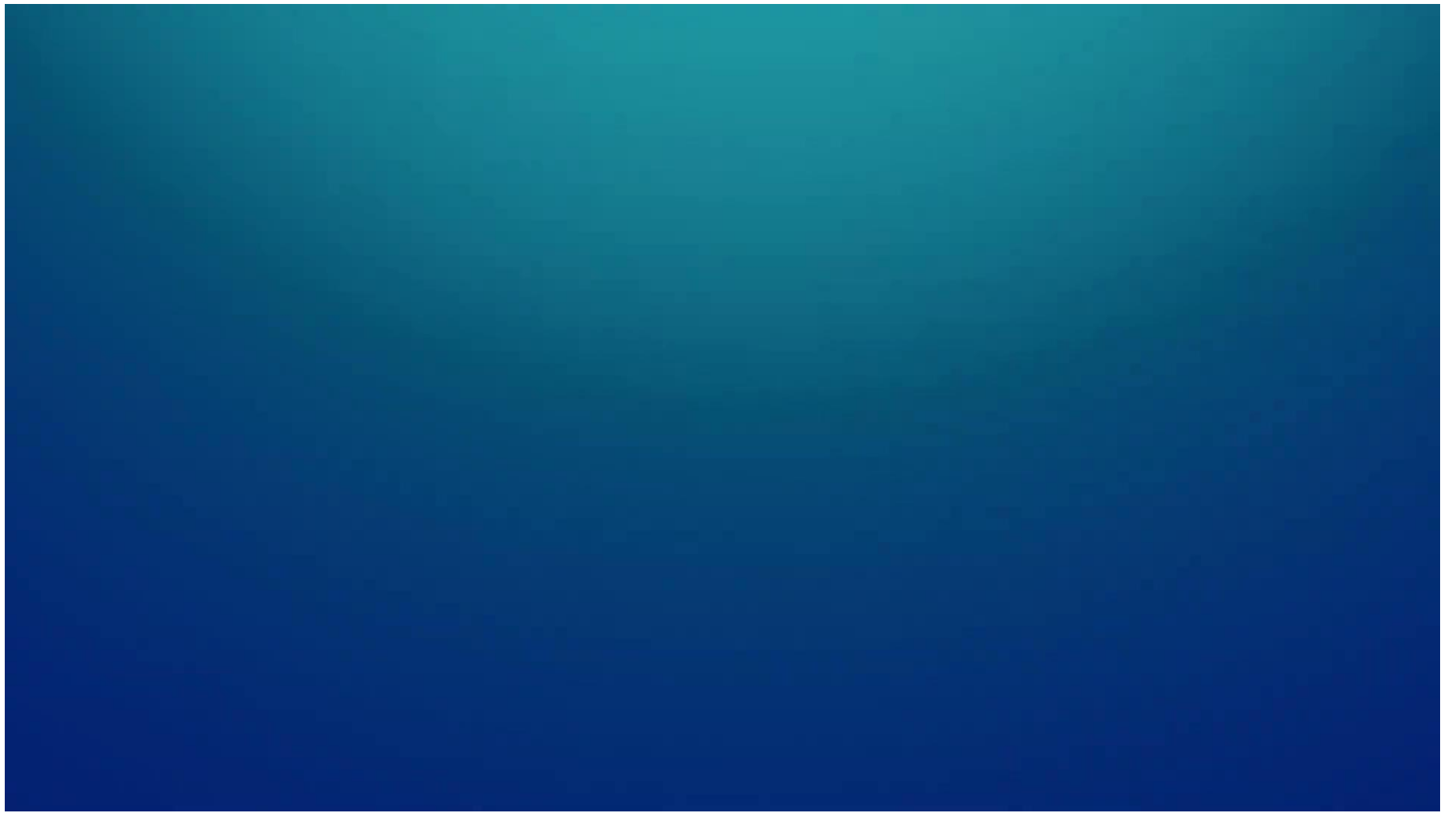
*A peak in global pasture land does not mean that it has peaked everywhere. In tropical regions, it continues to increase, often at the expense of carbon-rich habitats.

Sources: Goldewijk et al. (2017). Anthropogenic land use estimates for the Holocene – HYDE 3.2; Taylor and Rising (2021). Tipping point dynamics in global land use. Food and Agriculture Organization of the United Nations.

Cereal Yields (in metric tons per hectare)





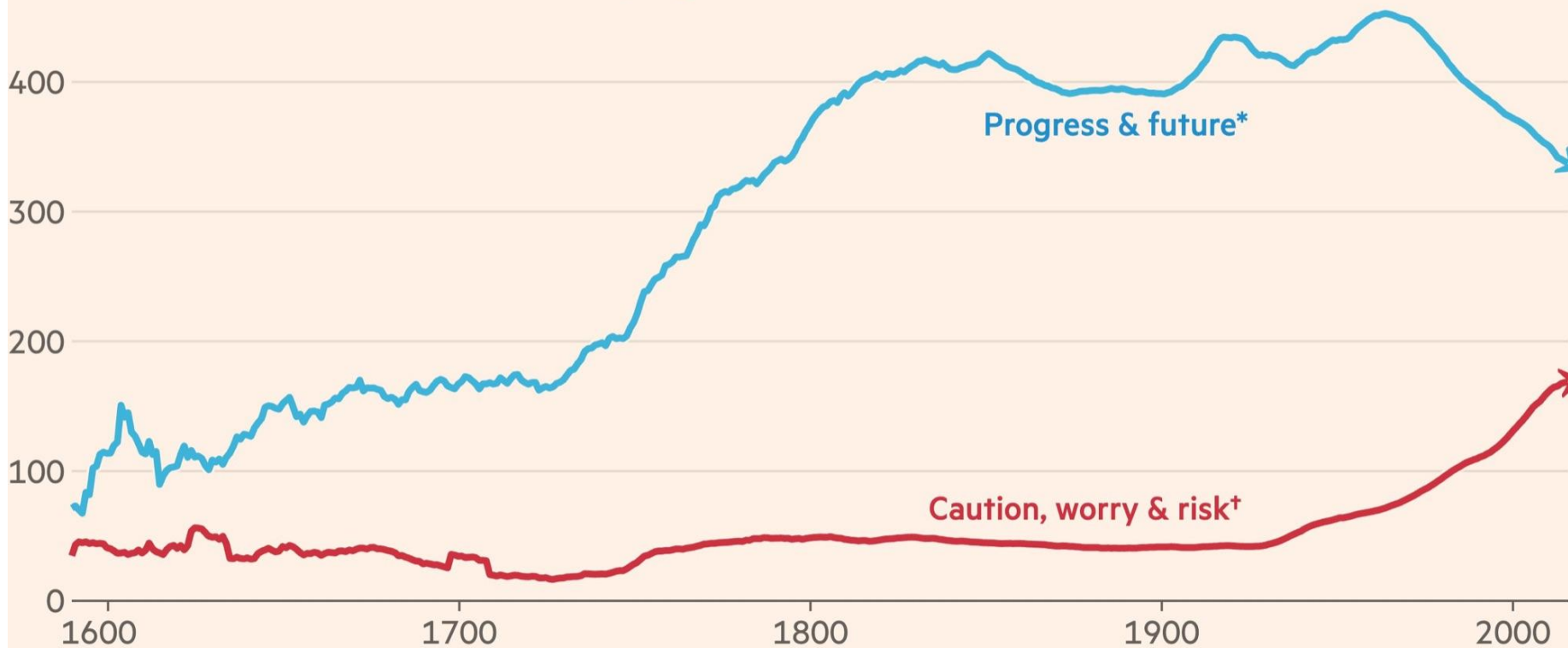


DURE

Waarom we weer moeten gaan geloven in de vooruitgang

The west has shifted away from a culture of progress in recent decades, and towards one of caution, worry and risk-aversion

Words per million related to themes of **progress** vs **caution** in English, French and German books

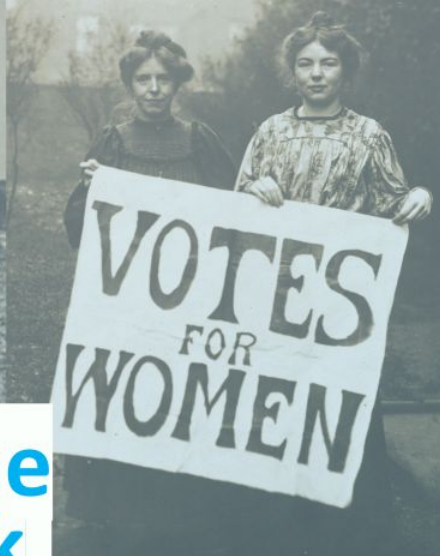


*Progress, advance, improvement, rise, future. †Threat, worry, warning, caution, at risk (all terms also translated)

Sources: Almelhem et al (2023); Google Books Ngram Viewer; Maddison Project Database



**Kleine
ecologische
voetafdruk.**



**Groot
menselijk
lijden.**





De 20ste eeuw bracht welvaart.



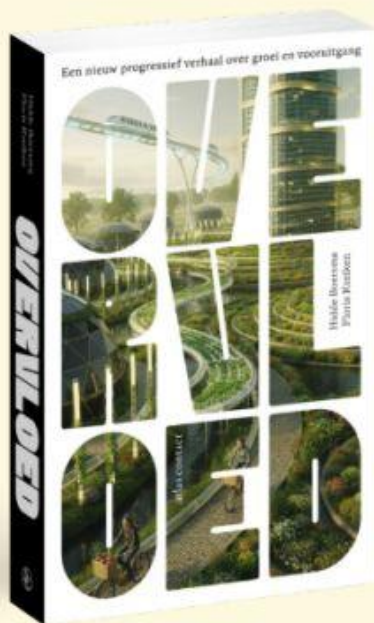
Maar de planeet leed.





DE EERSTE
DUURZAME
GENERATIE

Duurzaamheid en stijgende
welvaart hoeven geen
tegenpolen te zijn



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HIDDE BOERSMA & FLORIS KREIKEN

OVERVLOED

*Een nieuw progressief verhaal
over groei en vooruitgang*

NON-FICTIE



Vragen de grote problemen van deze tijd, zoals klimaatverandering en ongelijkheid, om minder consumptie, minder technologie en minder ambitie? Integendeel! Met een hernieuwd vertrouwen in de vooruitgang zorgen we voor overvloed en maken we basisvoorzieningen als energie en wonen betaalbaar en beter georganiseerd. Met groei, technologische innovatie en een sterke, richtinggevende overheid beschermen we natuur, verkleinen we ongelijkheid en geven we mensen weer grip op hun leven. Dit boek laat zien hoe het geloof in vooruitgang verloren ging, en hoe progressieve politiek het weer kan en moet heroveren.

- Voor de lezers van *Abundance* van Ezra Klein en Derek Thompson
- Van schaarste-politiek naar een overheid die overvloed genereert

HIDDE BOERSMA is gepromoveerd microbioloog en mede-oprichter van de techno-optimistische NGO wePlanet. Boersma schreef onder meer *Ecomodernisme*. **FLORIS KREIKEN** is gepromoveerd in technologie en recht, en werkt als adviseur grondrechten en technologie bij het ministerie van Binnenlandse Zaken en Koninkrijksrelaties.

OVERVLOED • ABUNDANCE • GROEI



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