

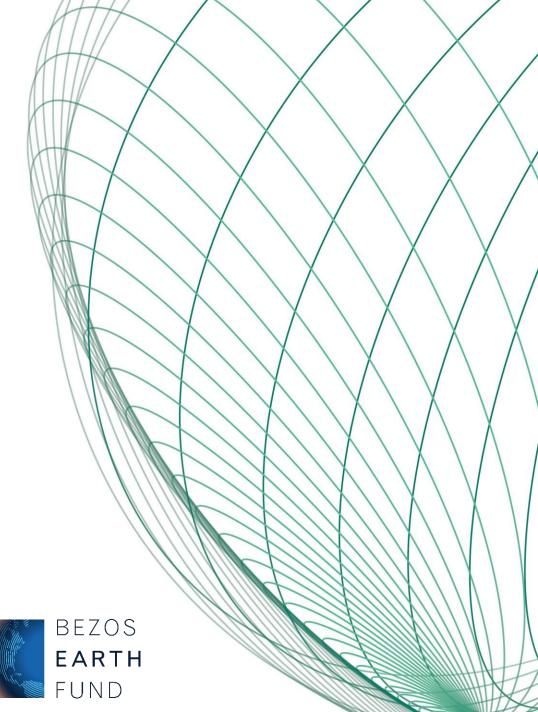
# Tipping positive change to avoid climate tipping points

Tim Lenton

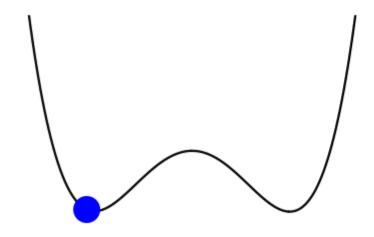
t.m.lenton@exeter.ac.uk





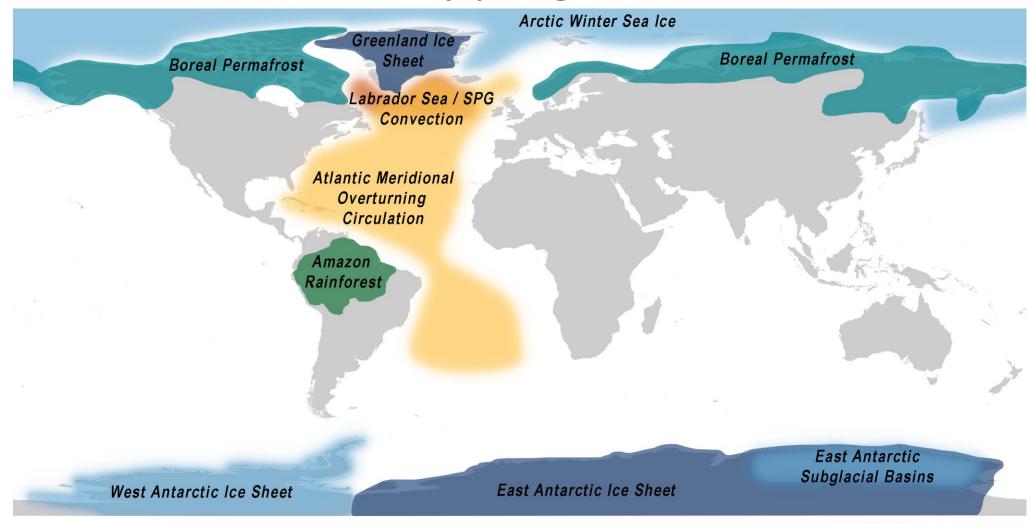


### Generic example of passing a tipping point

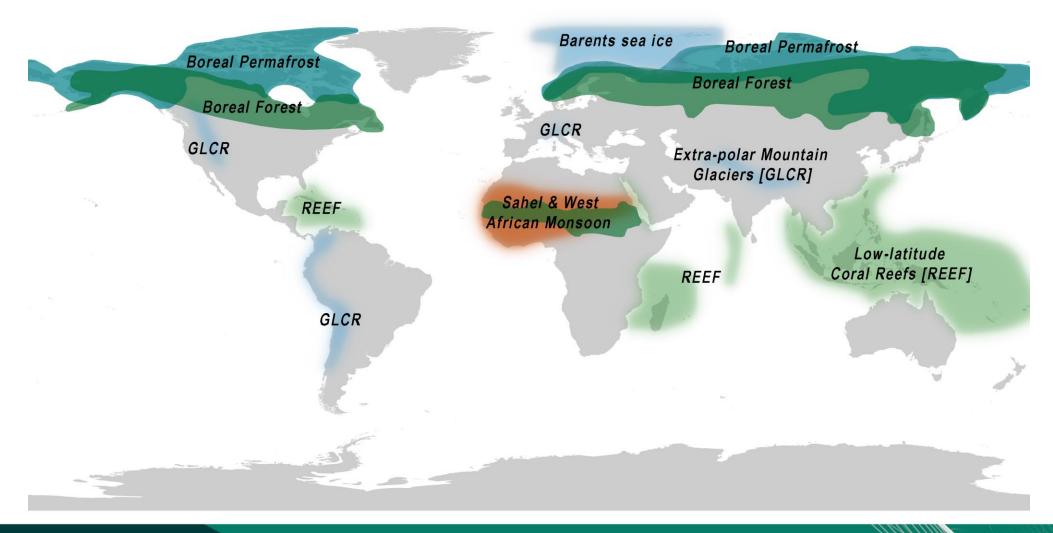


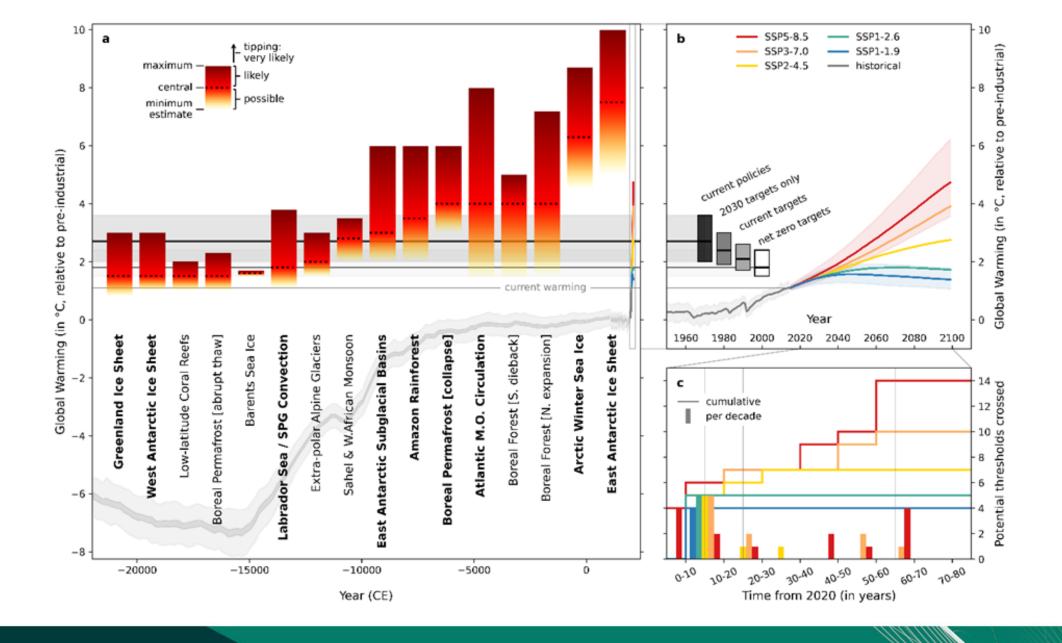
CC BY 4.0 - Chris A. Boulton (UoE, UK)

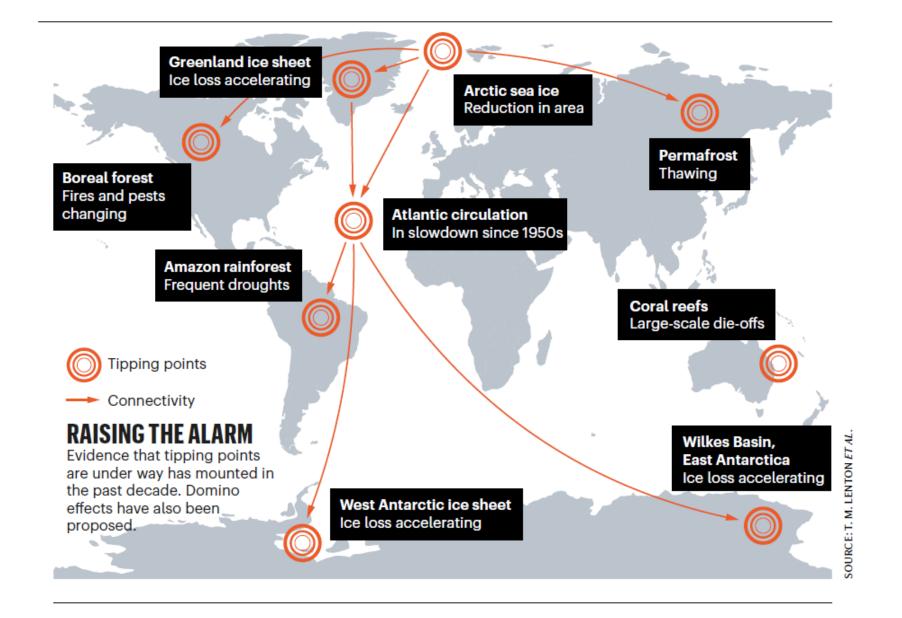
#### Global 'core' climate tipping elements



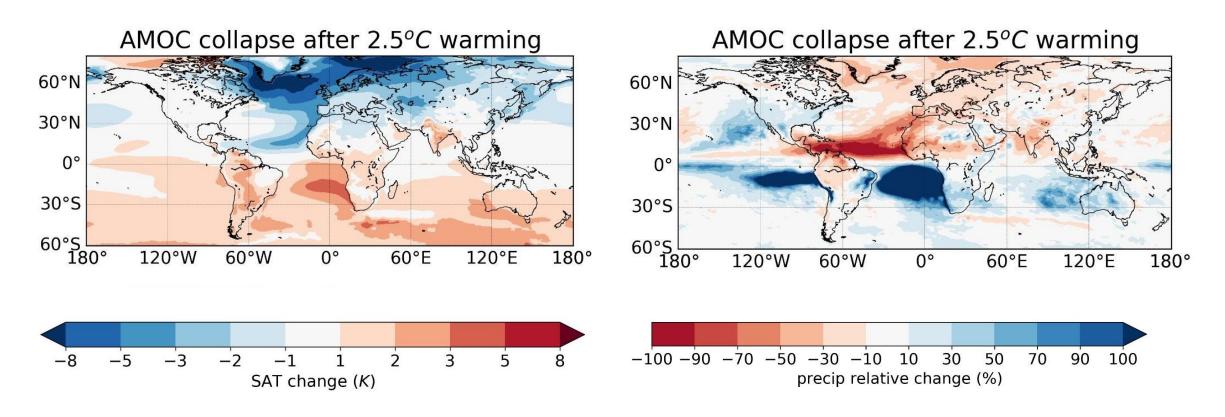
#### Regional 'impact' climate tipping elements







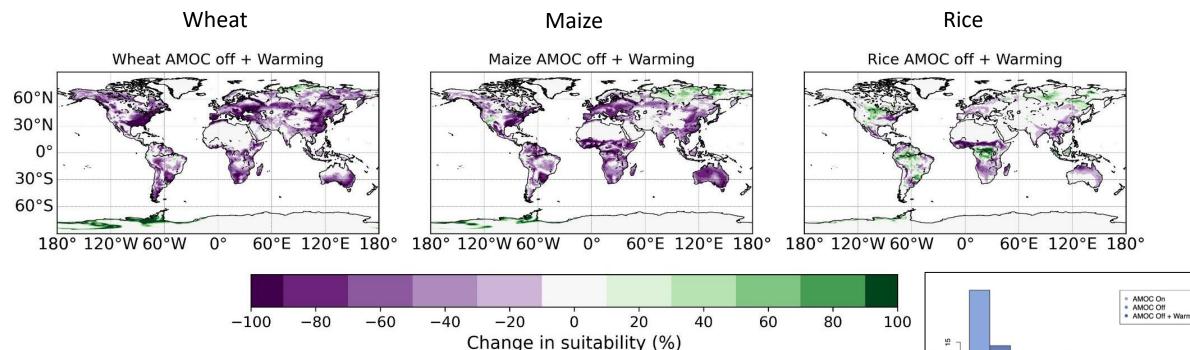
#### Impacts of global warming + a tipping point



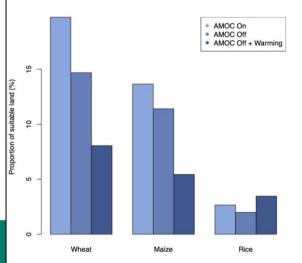
Temperature change

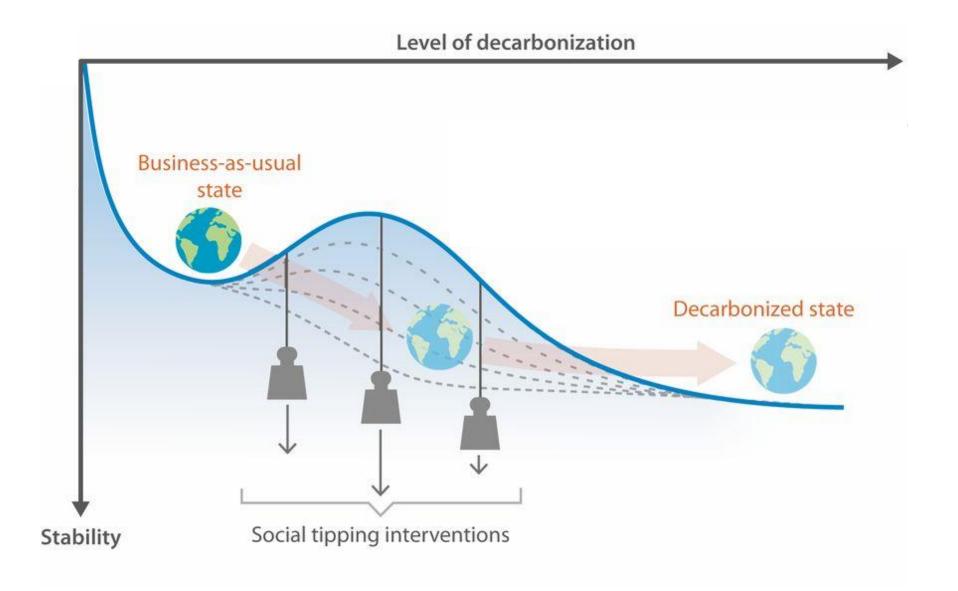
Precipitation change

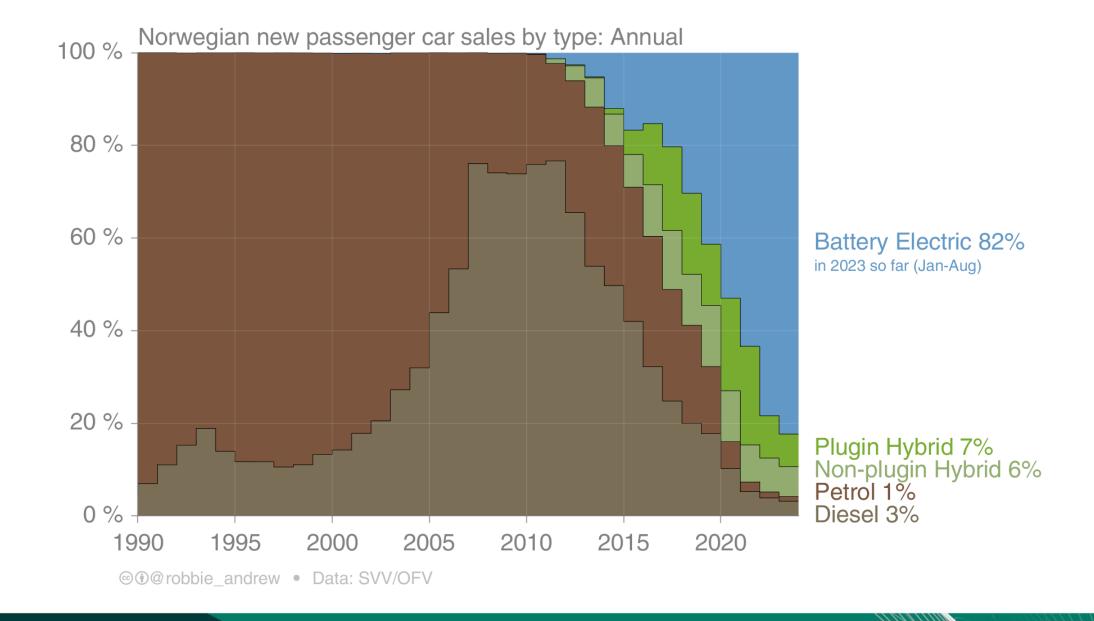
#### Change in suitability for growing staple crops



ECOCROP data on optimal temperature, precipitation and growing season length



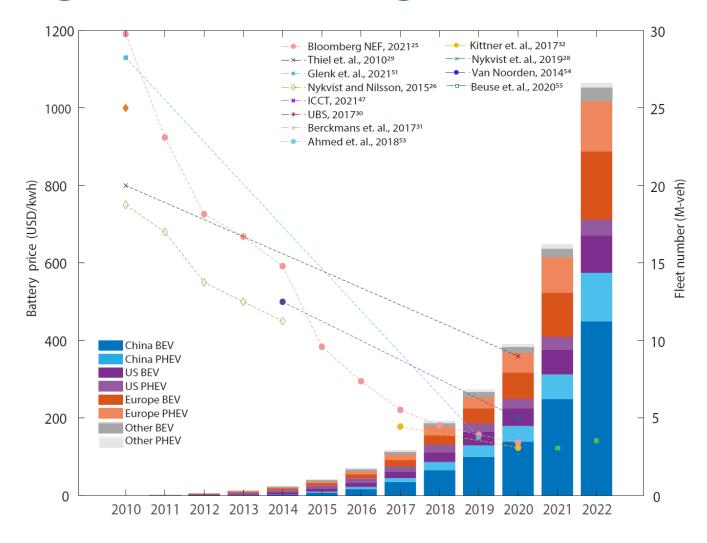


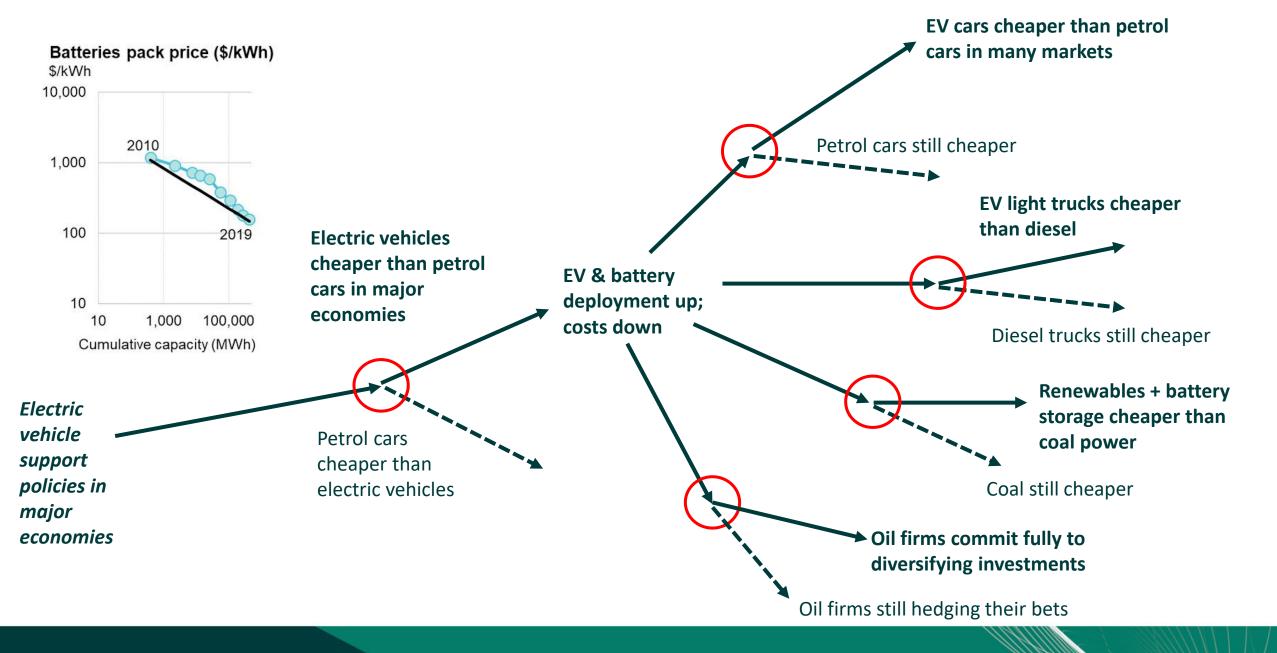


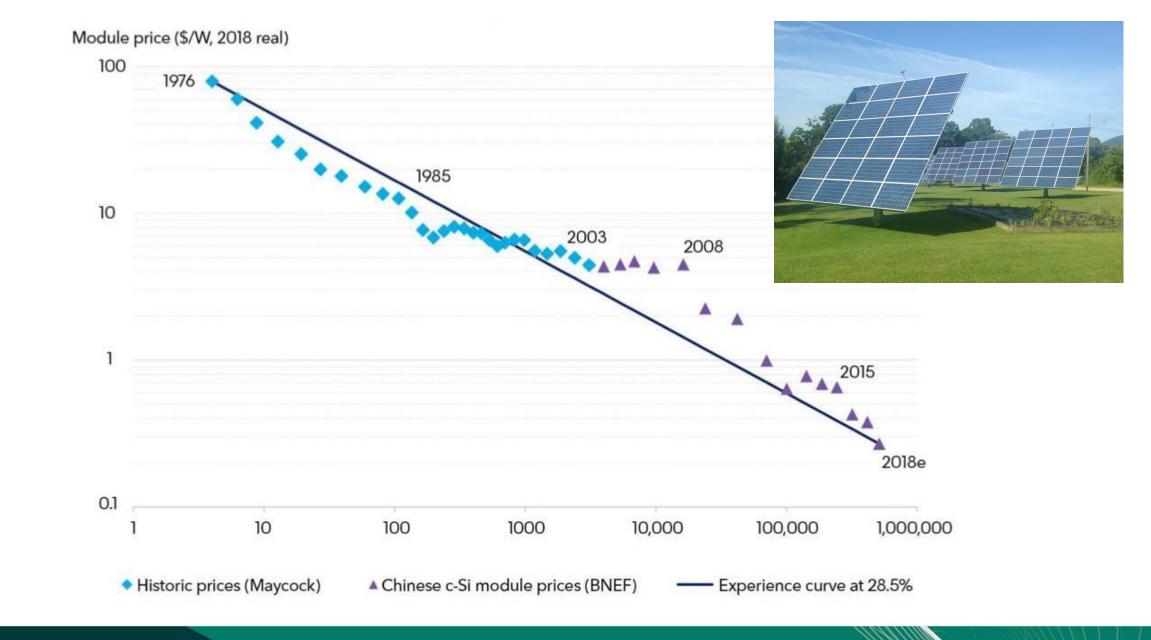
Credit: Robbie Andrew



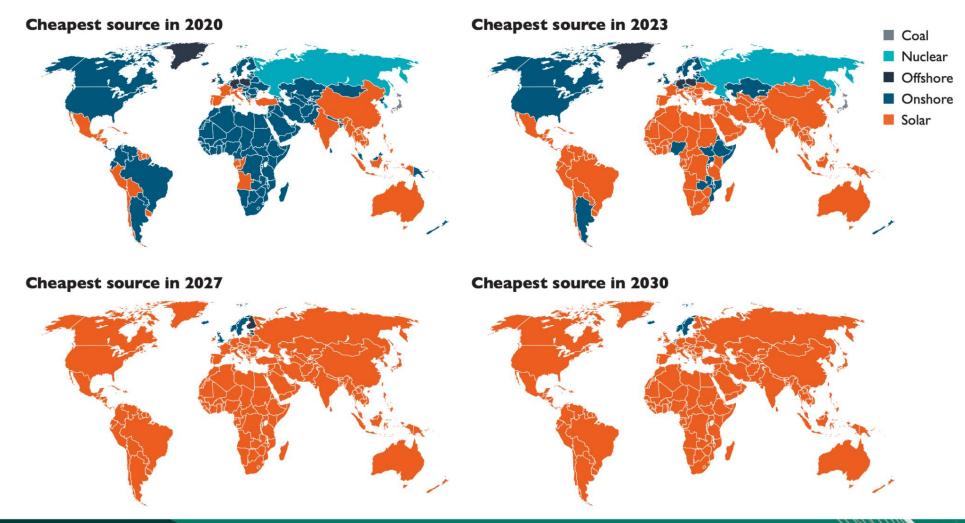
#### Exponential growth of the global EV fleet

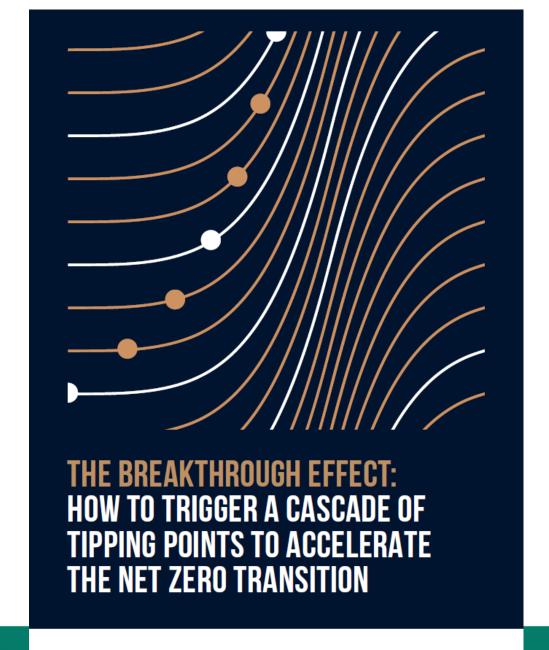






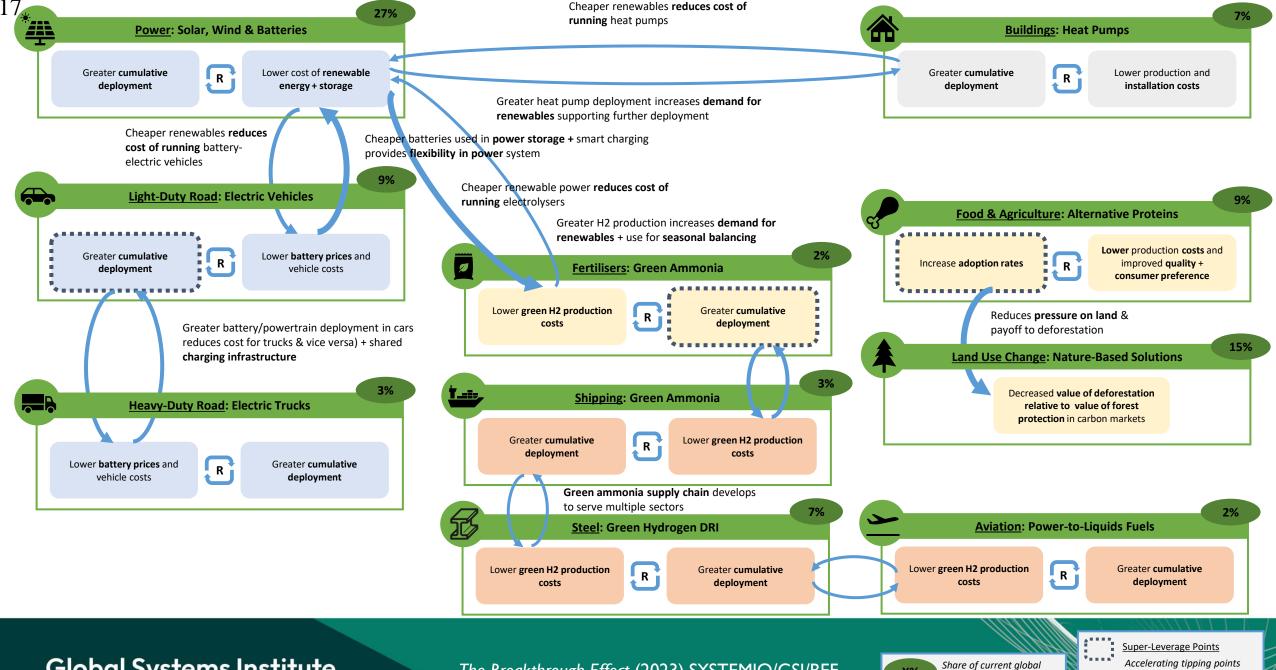
## Levelized cost of electricity including storage











# **Coming soon: Global Tipping Points Report December 2023**

An authoritative assessment of the risks and opportunities of both negative and positive tipping points in the Earth system and society.



To find out more: tippingpoints@exeter.ac.uk





#### **Questions?**

Thanks to my research group and all my tipping points collaborators





