

Managing Risk in a Changing Environment

Emily Shuckburgh

@emilyshuckburgh

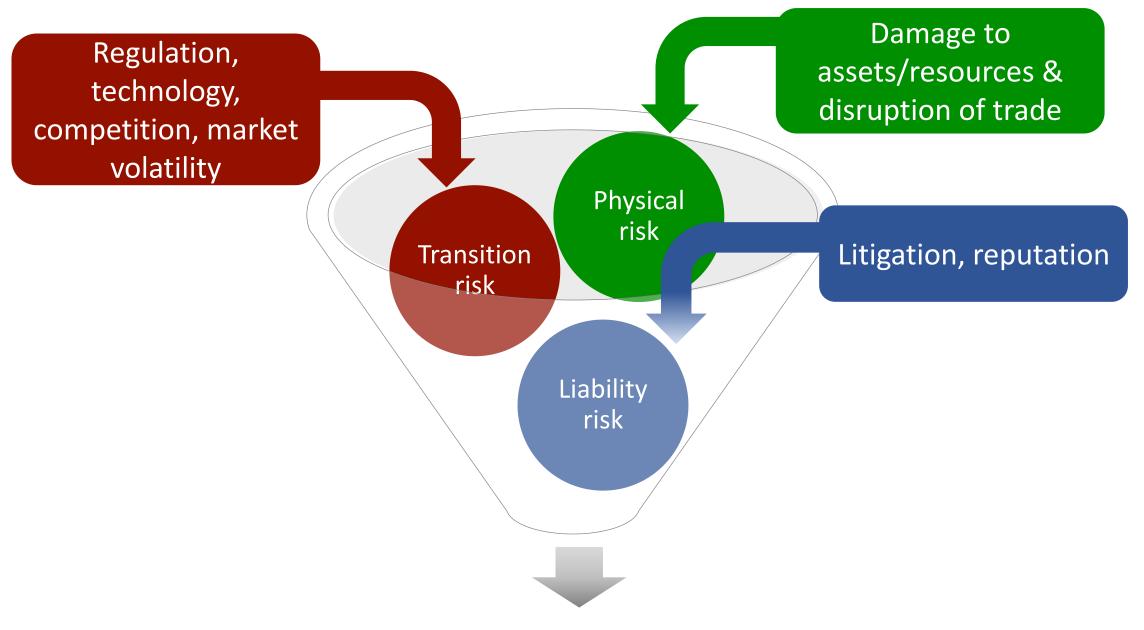




Climate change is the Tragedy of the Horizon.

We don't need an army of actuaries to tell us that the catastrophic impacts of climate change will be felt beyond the traditional horizons of most actors – imposing a cost on future generations that the current generation has no direct incentive to fix.

Mark Carney, 2015

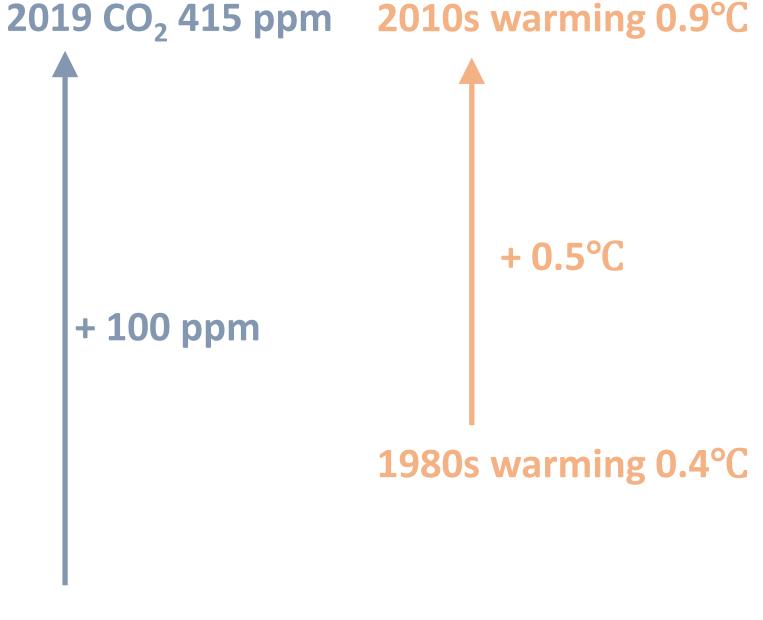


Climate risk to business & investments

Physical risks







1960 CO₂ 315 ppm

Attributing extreme weather to climate change

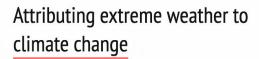
Use the filters below to explore the studies



257

Over 200 studies where human influence found



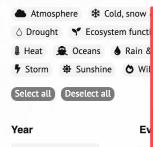


Use the filters below to explore the studies



Human influence found
No human influence found
Inconclusive

Impact



Trenberth et al, 2018

Over 200 studies to-date where human influence found



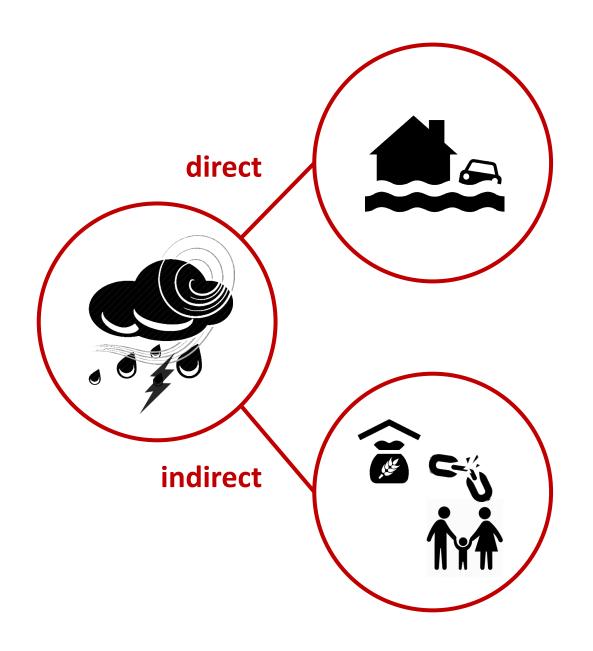








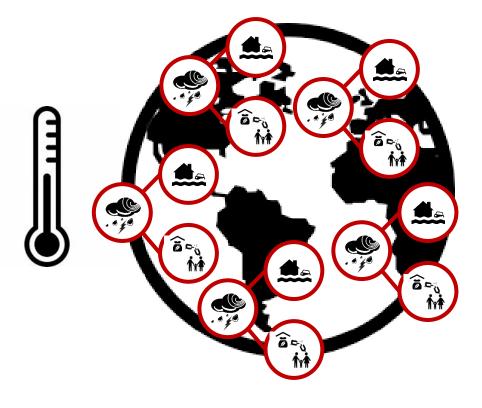




- impair asset values
- undermine ability to repay loans
- threaten the creditworthiness of borrowers
- result in raised insurance premiums
- increase credit exposures
- challenge portfolio diversification
- change investor sentiment
- induce climate-related regulations
- etc...

warming world

increasing risks





sustained damage to infrastructure & resources



correlation across geography, time & between conditions



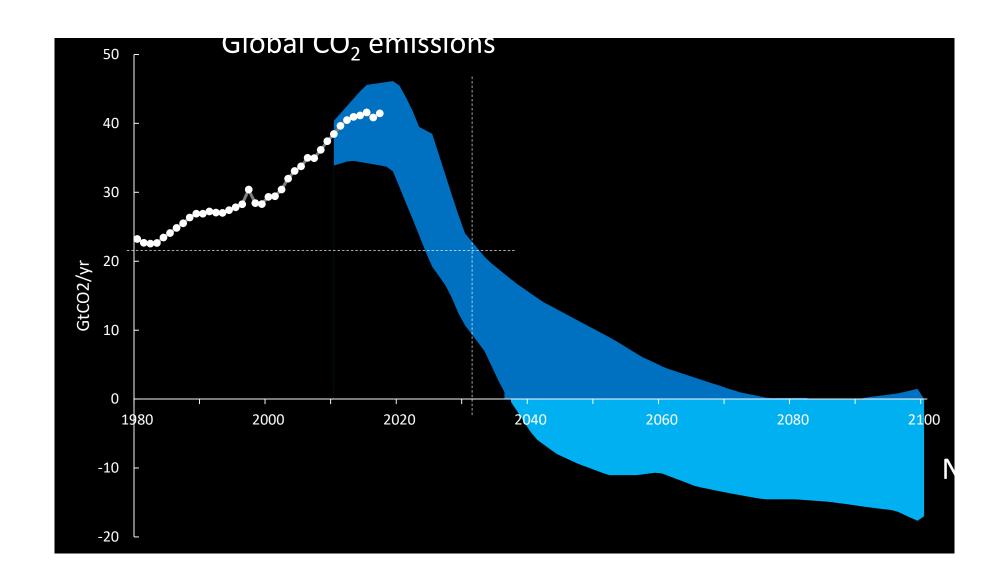
interconnected risks across systems





Transition risks





Liability risks







Catastrophic shocks





