



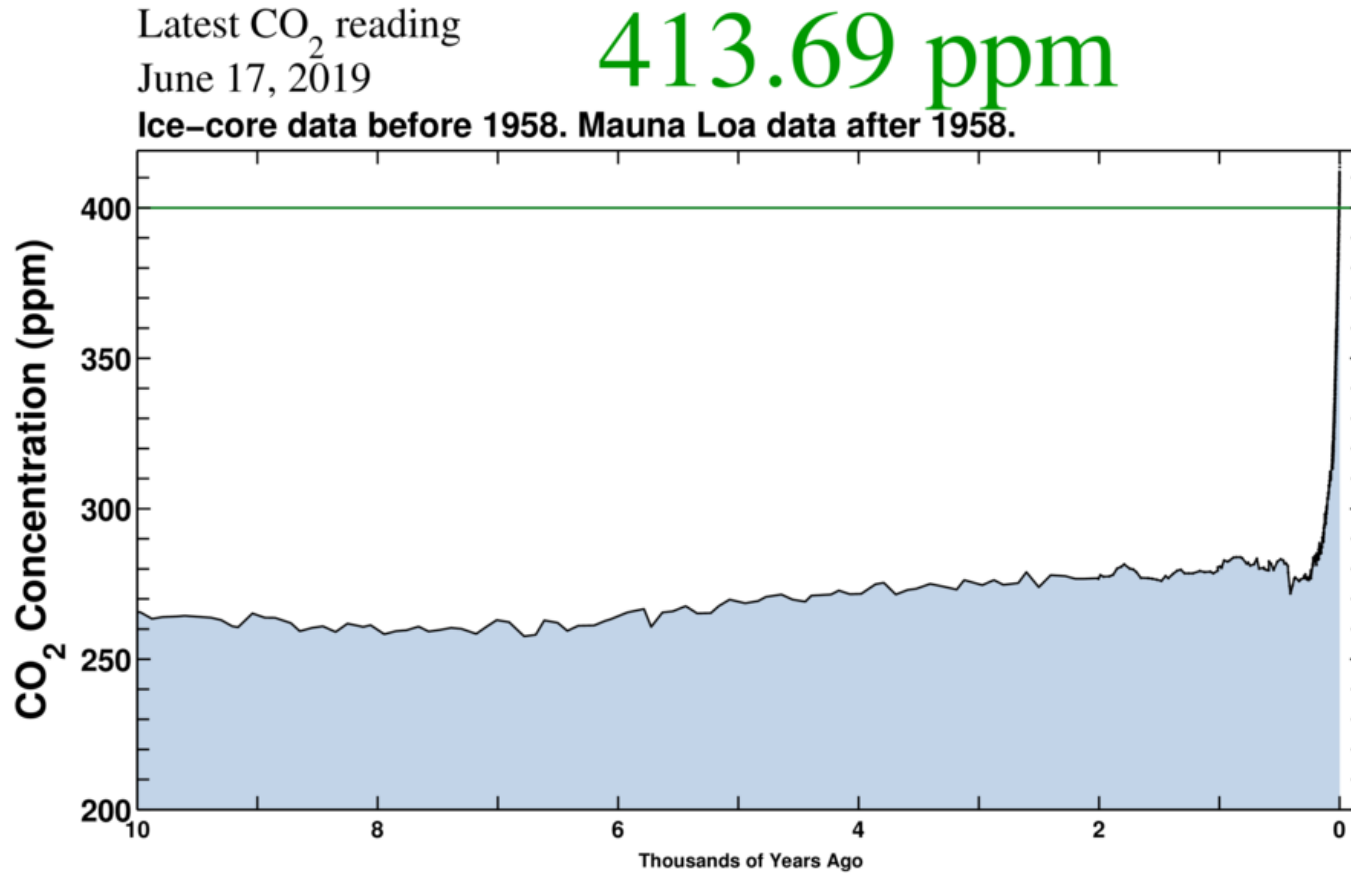
Government
Office for Science

WCSSP Workshop

Patrick Vallance

UK Govt Chief Scientific Advisor

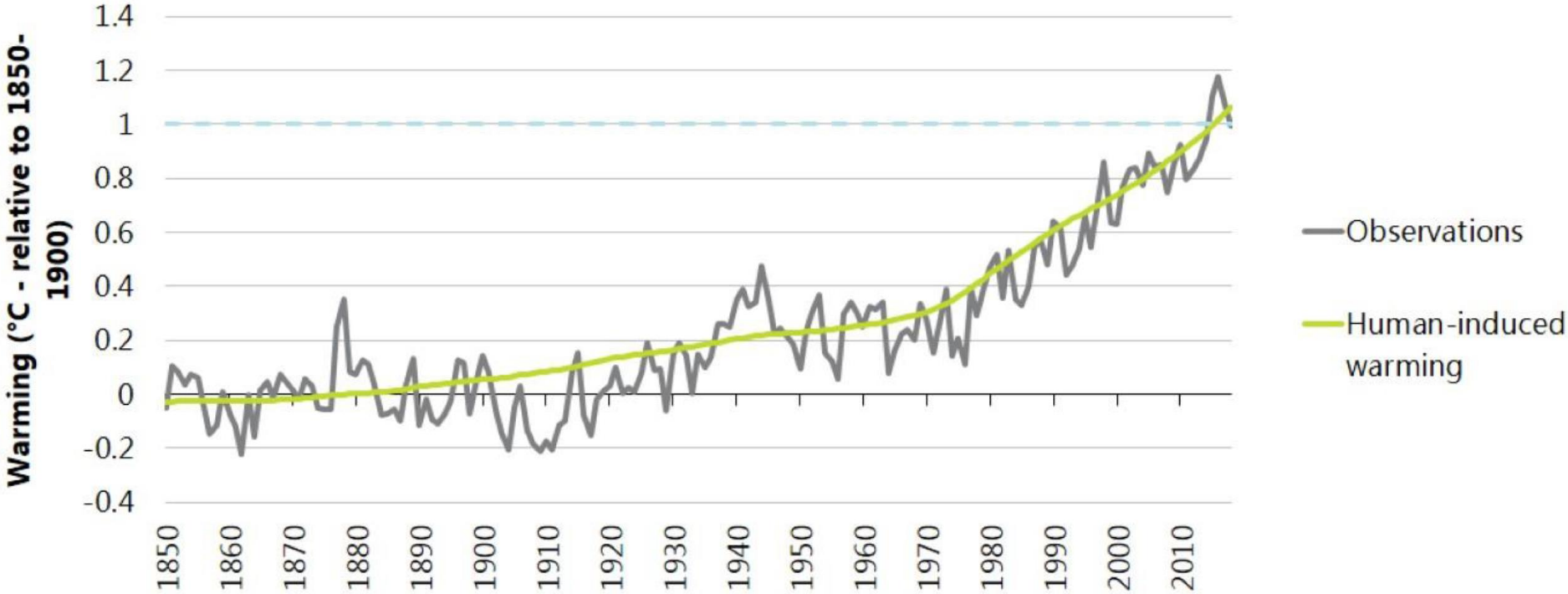
CO₂ Concentration



Source: Scripps Institution of Oceanography

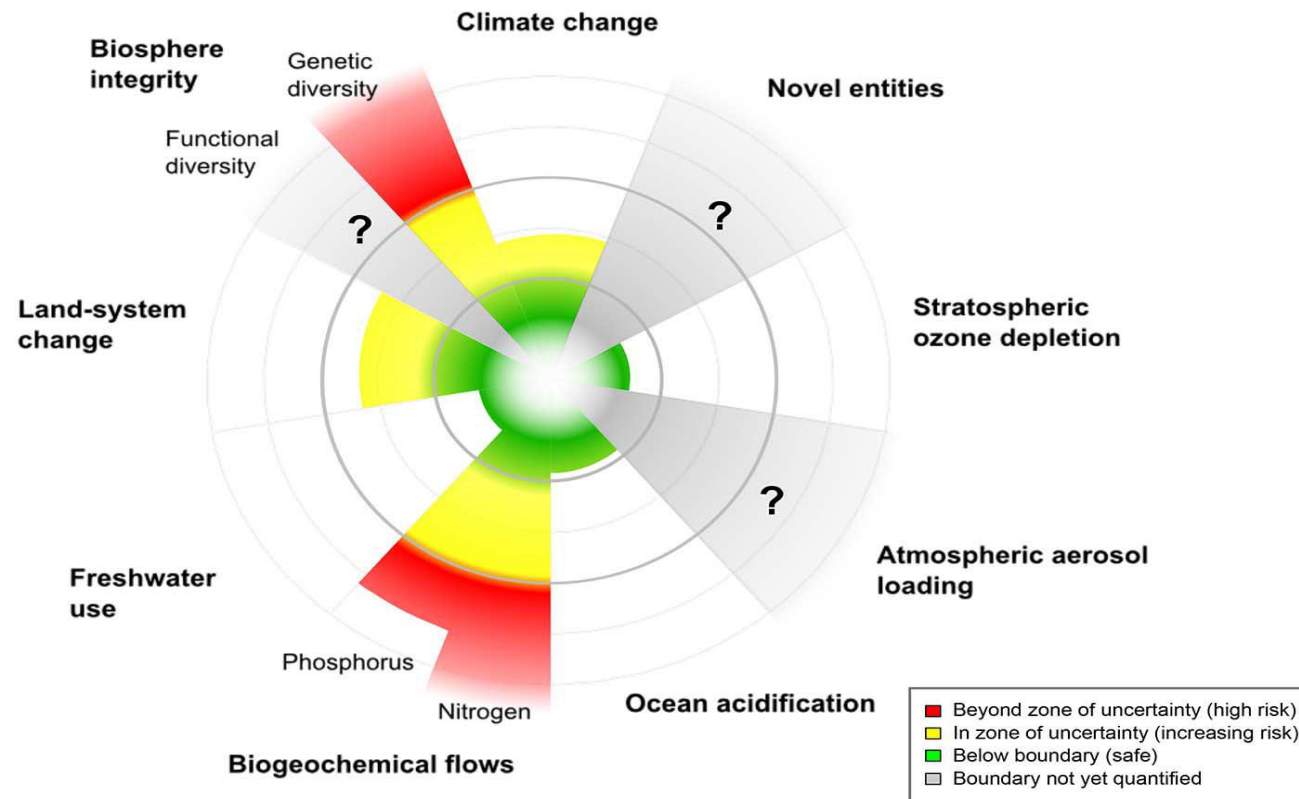
Global Emissions Pathways Consistent with Paris

Observed and human-induced warming



Source: HadCRUT4, NOAA, NASA and Cowtan & Way datasets; IPCC (2018) Chapter 1 - Framing and Context.

And it goes beyond climate change



Current status of the control variables for seven of the nine planetary boundaries. The green zone is the safe operating space, below the boundary. The yellow zone represents the zone of uncertainty (increasing risk), and red is the high-risk zone. From *Planetary boundaries: Guiding human development on a changing planet*, Steffen et al, 2015.

Science for Service Partnerships

- Collaborate to maximise existing capabilities
- Use science to inform decisions and services
- Inform across the breadth of impact