

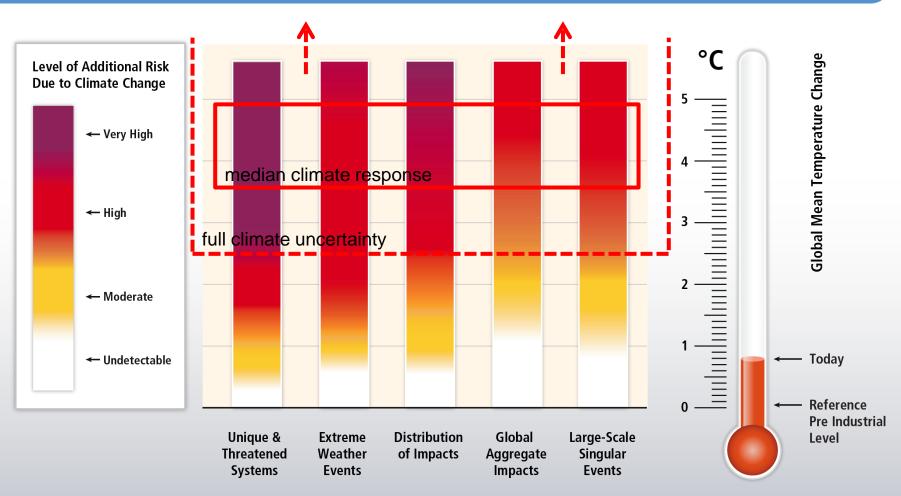
Future Pathway for Adaptation, Mitigation and Sustainable Development

Ottmar Edenhofer, Co-Chair IPCC WGIII Structured Expert Dialogue 2 December 2014, Lima, Peru

IPCC AR5 Synthesis Report

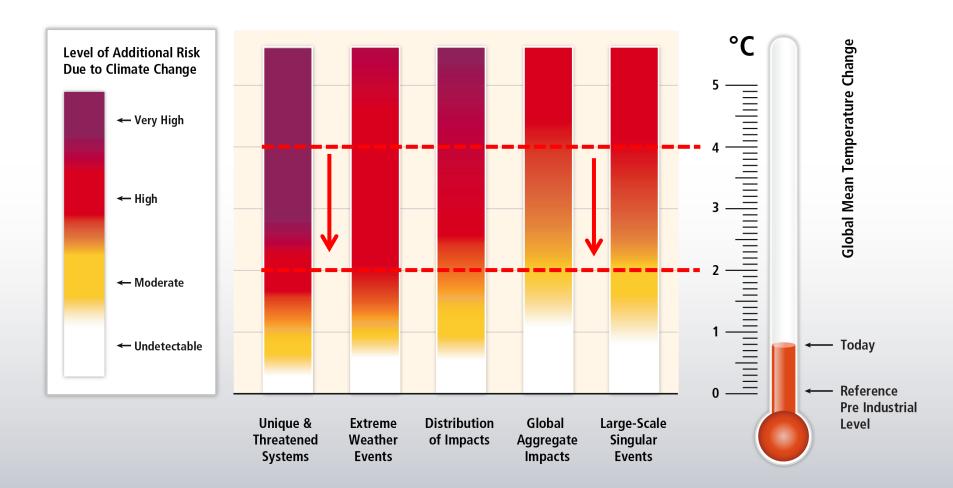


If current trends continue, warming by the end of the 21st century will lead to high to very high risk of severe, widespread, and irreversible impacts globally.



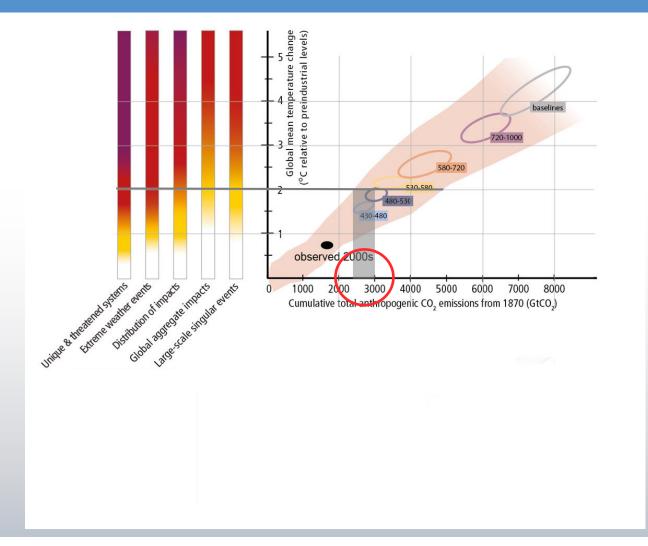


Substantial and sustained cuts in GHG emissions can significantly reduce climate risks.





Risks from climate change depend on cumulative CO₂ emissions...

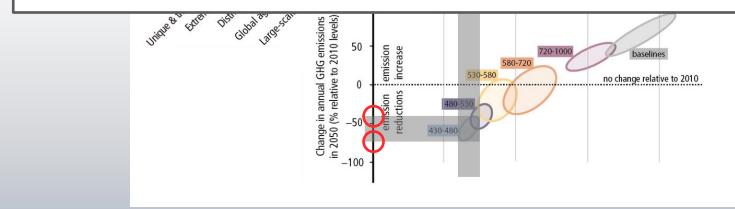




...which in turn depend on annual GHG emissions over the next decades.

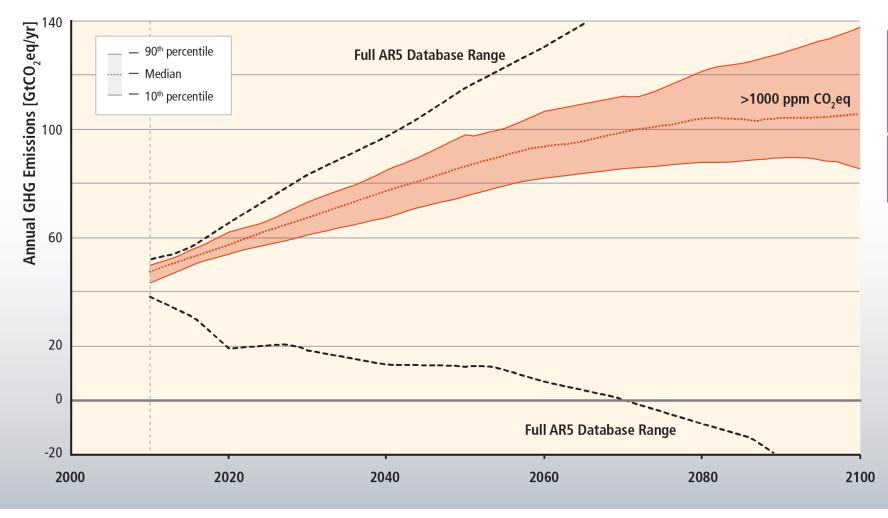


There are co-benefits and there are risks of mitigation. But the risks of mitigation do not involve the possibility of severe, widespread, and irreversible impacts as do the risks from climate change.



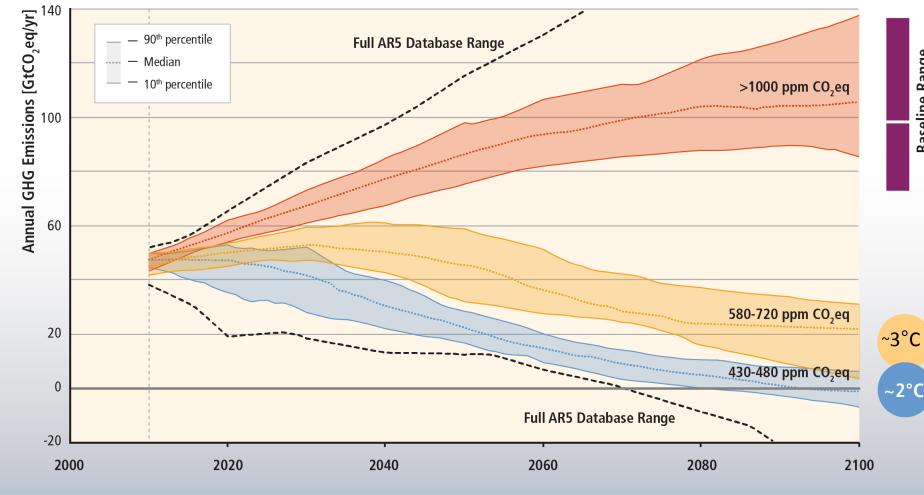


Stabilization of atmospheric concentrations requires moving away from the baseline – regardless of the mitigation goal.



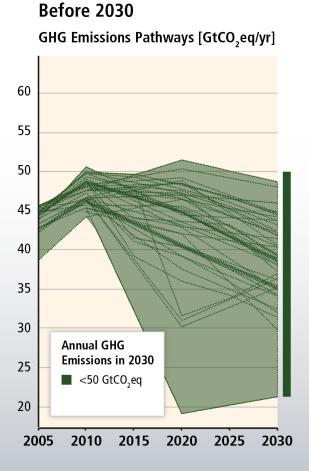


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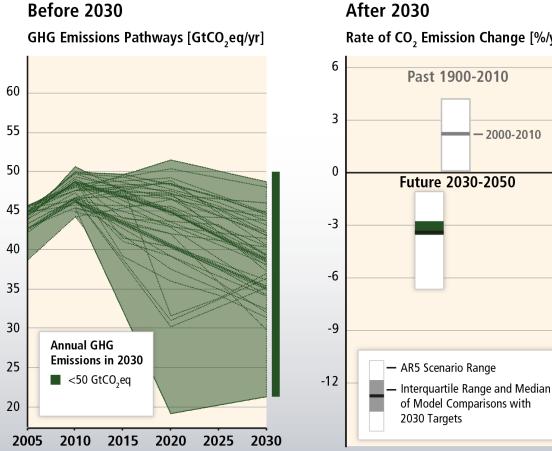
Working Group III contribution to the 7 **IPCC Fifth Assessment Report**

Baseline Range



"immediate action"

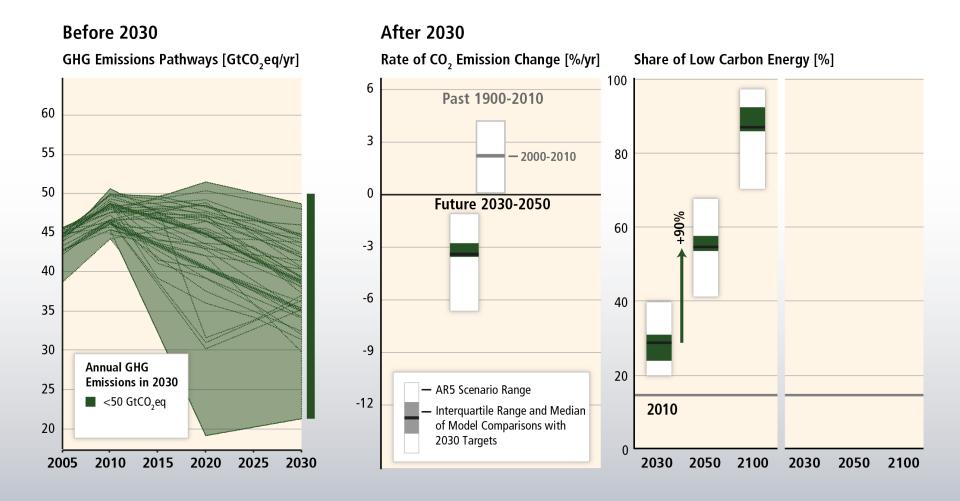




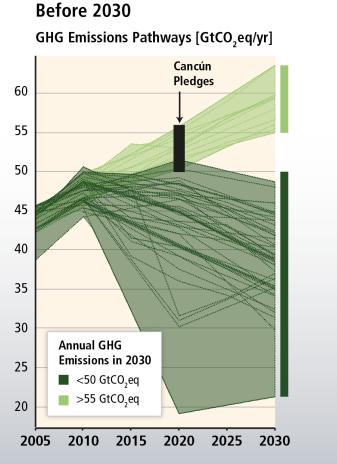
After 2030

Rate of CO, Emission Change [%/yr]





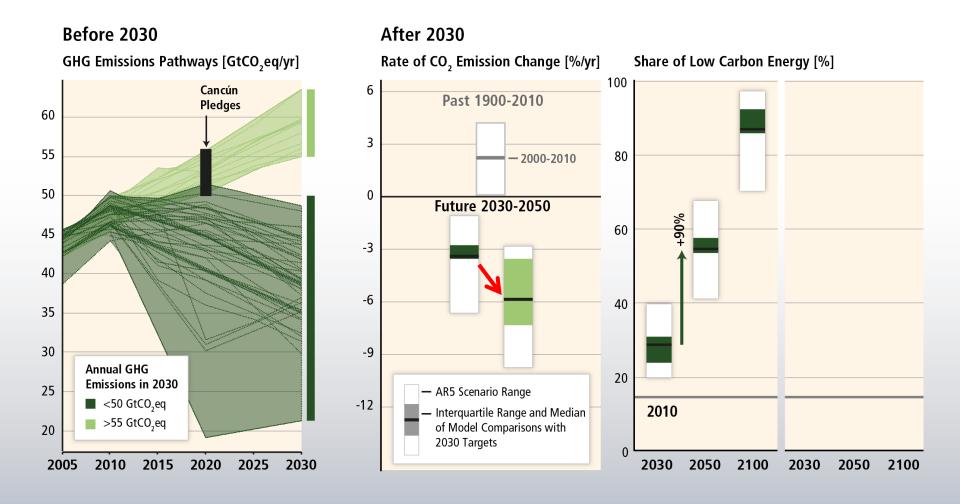




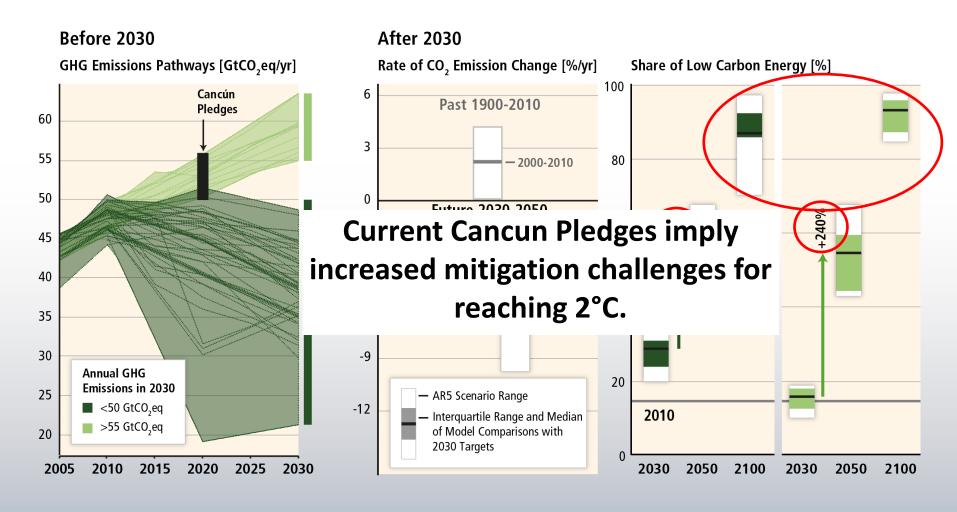
"delayed mitigation"

"immediate action"





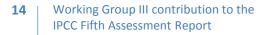




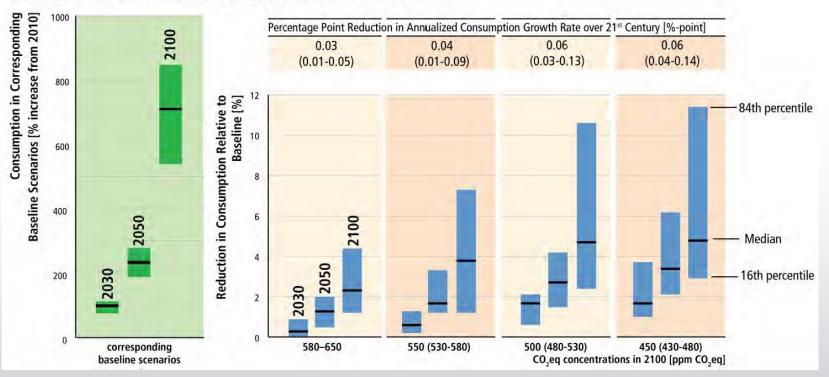


Comprehensive assessment is difficult in the absence of multimodel comparison study and limited number of studies. Studies characterized by:

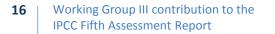
- Temperature overshoot and large scale application of CDR
- Immediate mitigation action
- Rapid upscaling of the *full* set of technologies
- Development along a low energy demand pathway





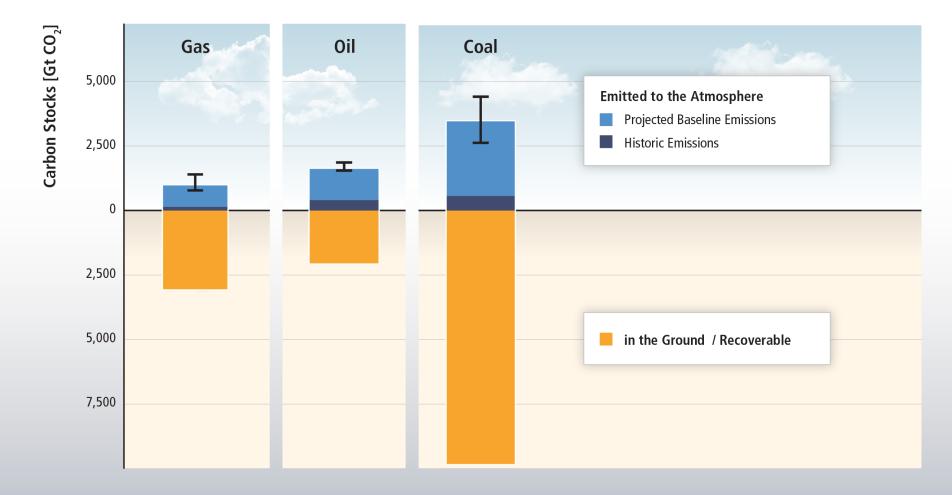


Global Mitigation Costs and Consumption Growth in Baseline Scenarios





Climate change is a global commons problem.





INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE

CLIMATE CHANGE 2014 *Mitigation of Climate Change*

www.mitigation2014.org

