



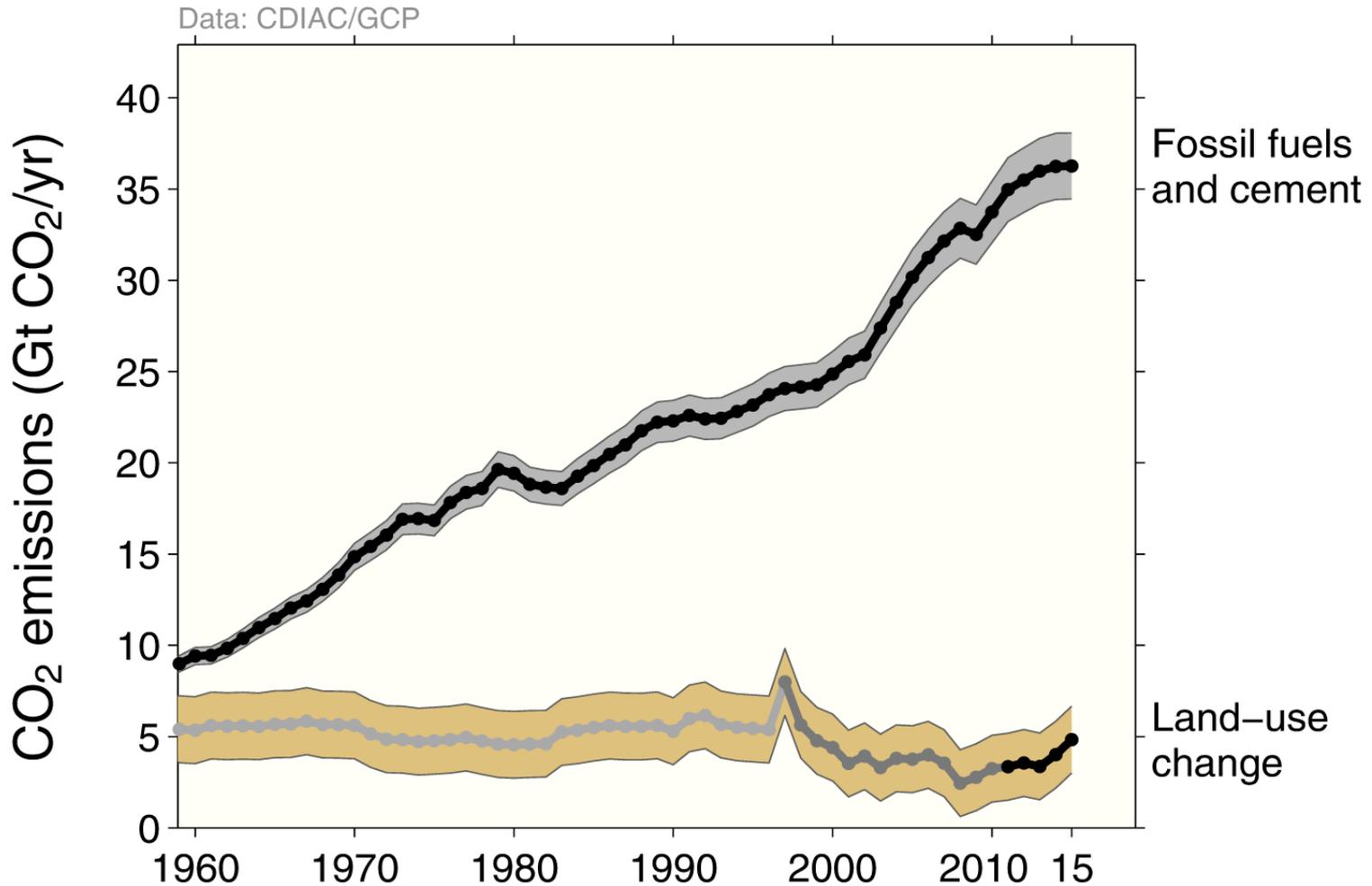
POTSDAM INSTITUTE FOR
CLIMATE IMPACT RESEARCH

The Paris Agreement and the 2030 Agenda – From Vulnerabilities to Opportunities

Prof. Dr. Ottmar Edenhofer

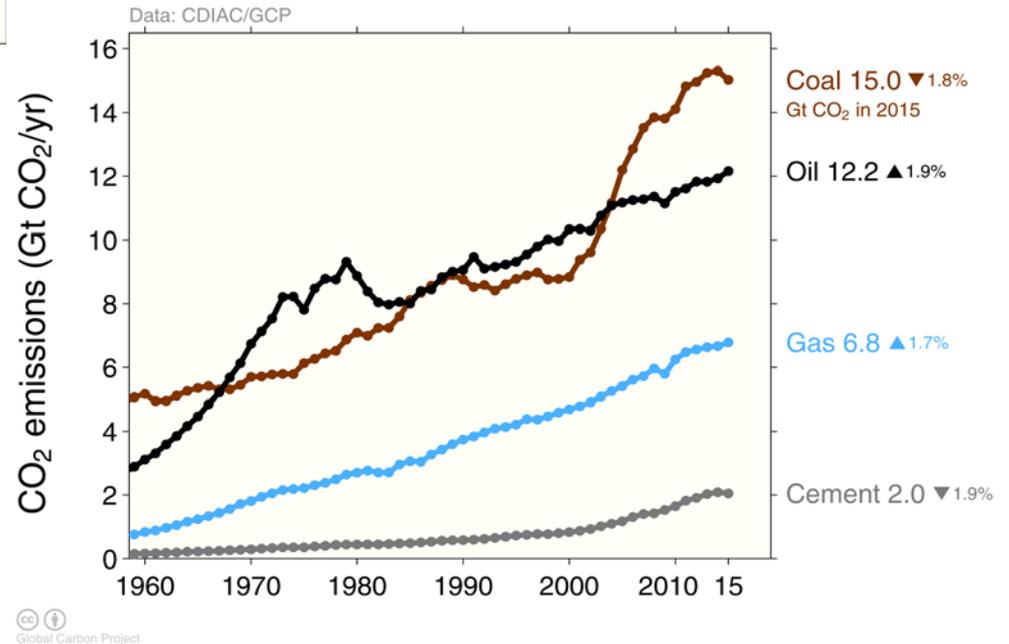
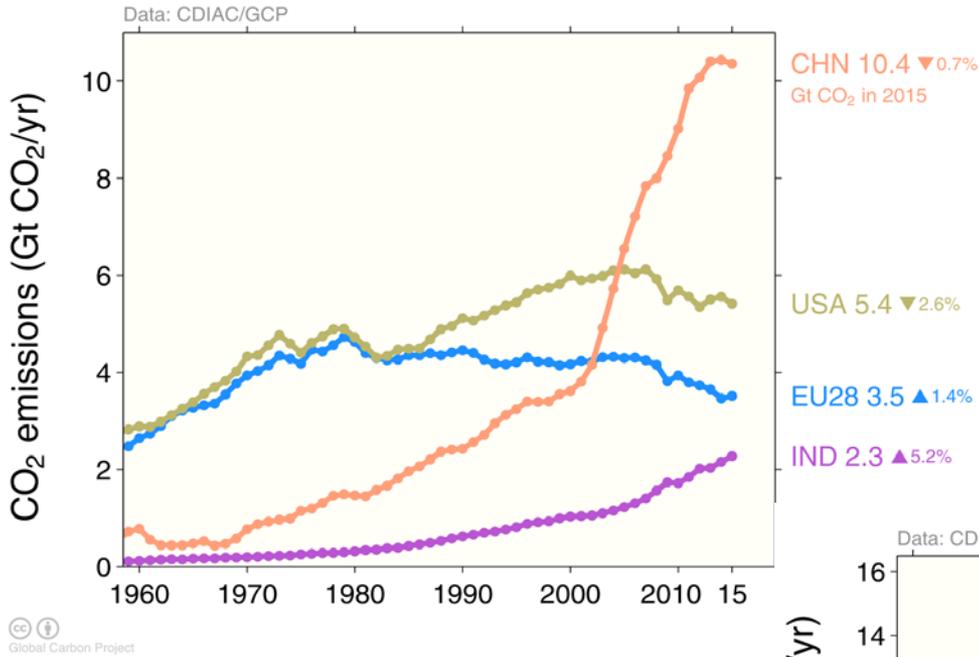
CrossroadsBonn Conference
Bonn, 04 November 2017

Emissions are rising.

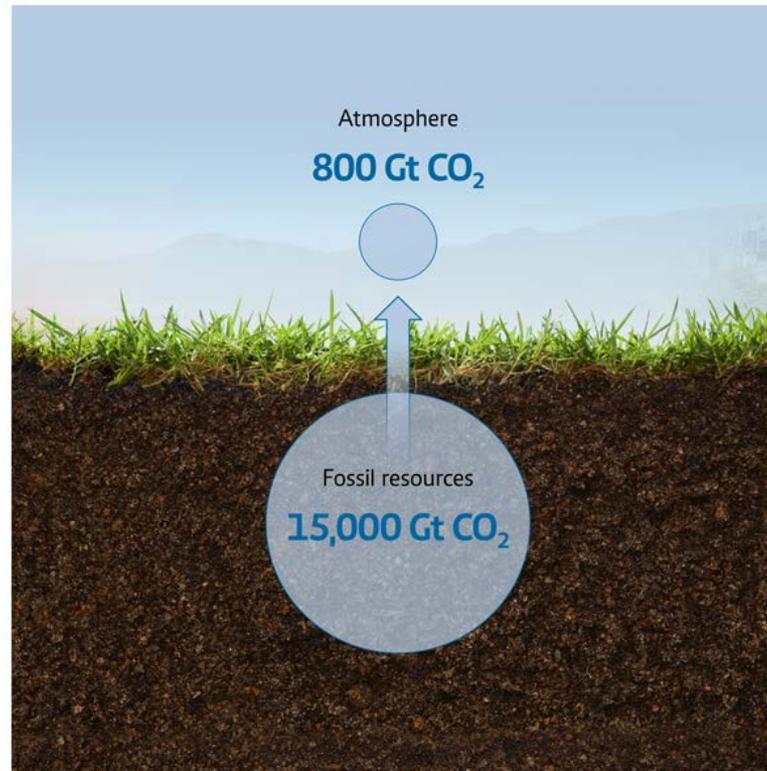


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Global Carbon Project

Does climate policy already show effects?



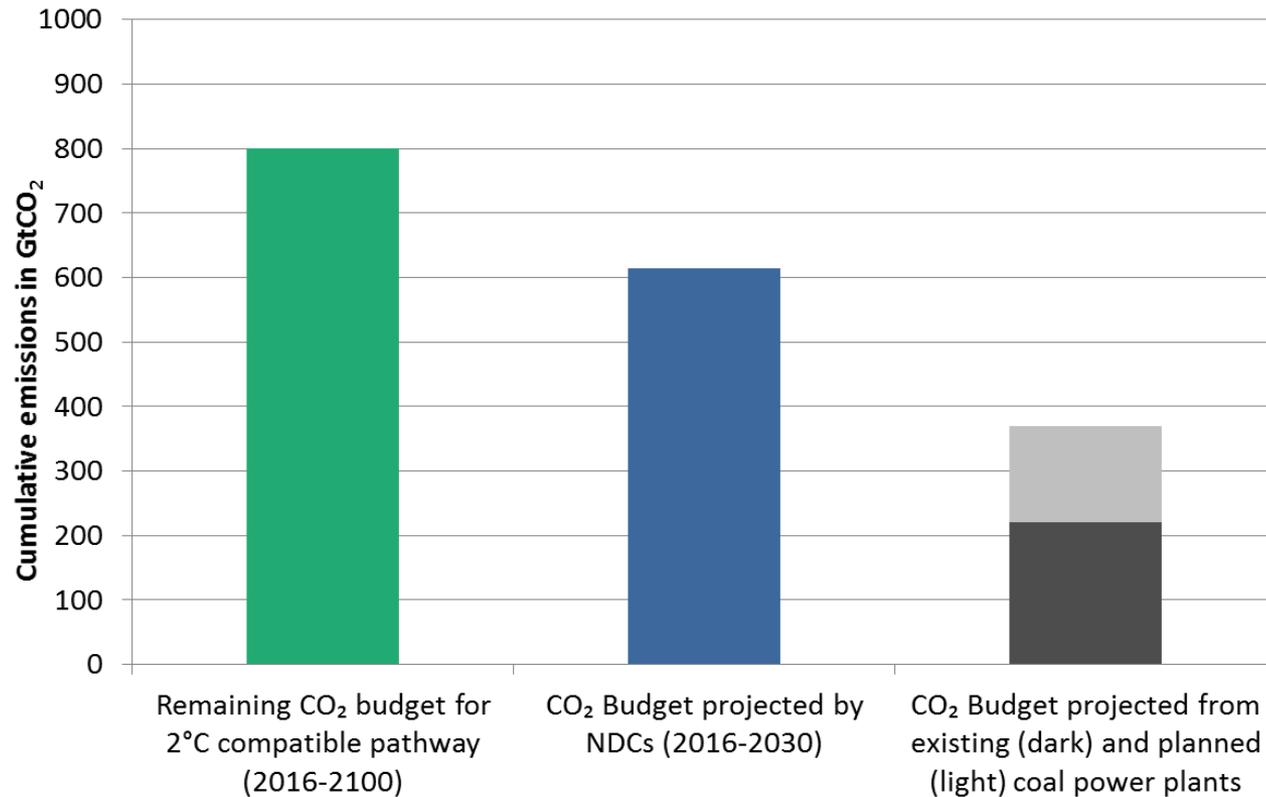
The climate problem at a glance



Source: Bauer et al. (2014); Jakob, Hilaire (2015)

The 2°C budget does not leave any leeway

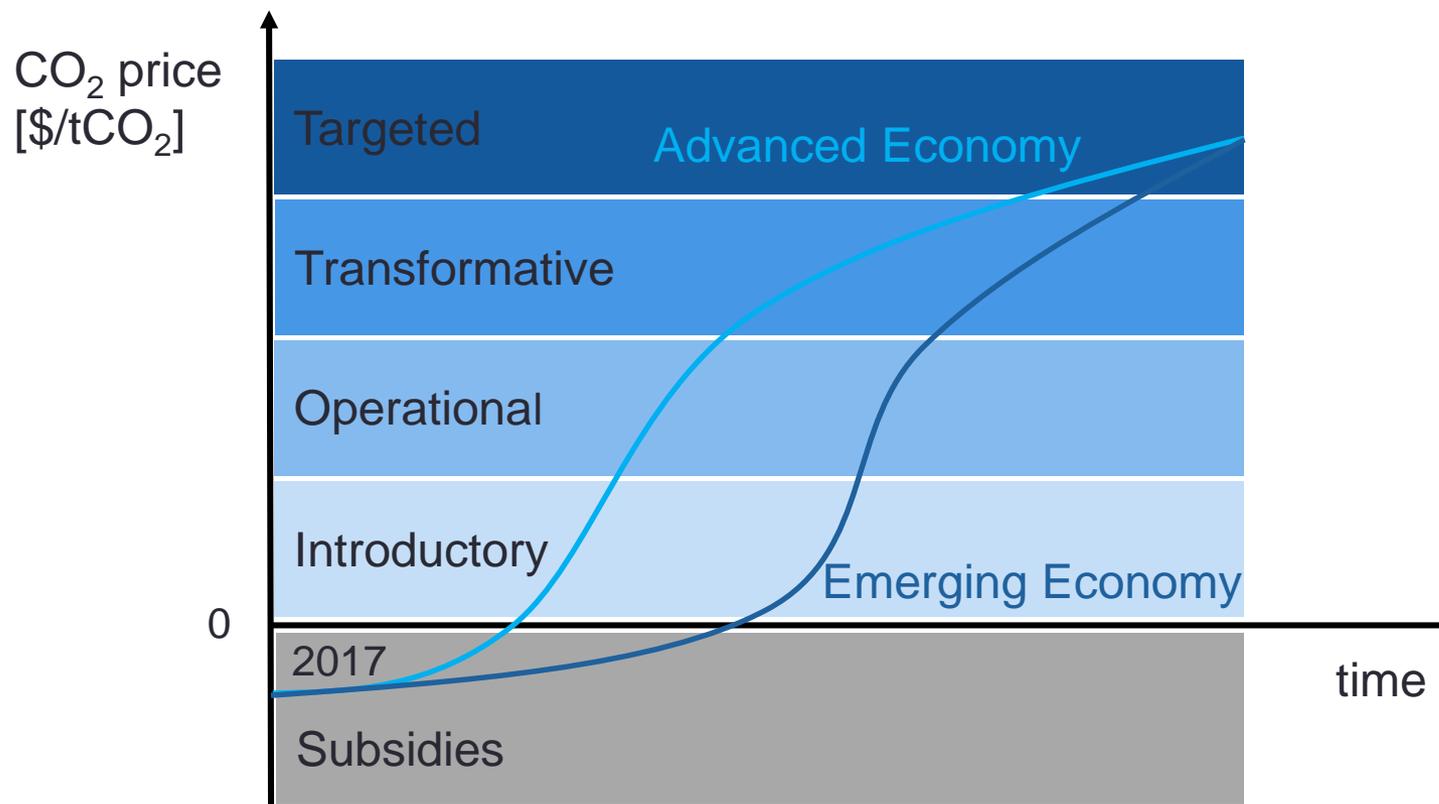
Cheap and abundant coal is the driver of a „re-carbonisation“ of the energy system in some parts of the world



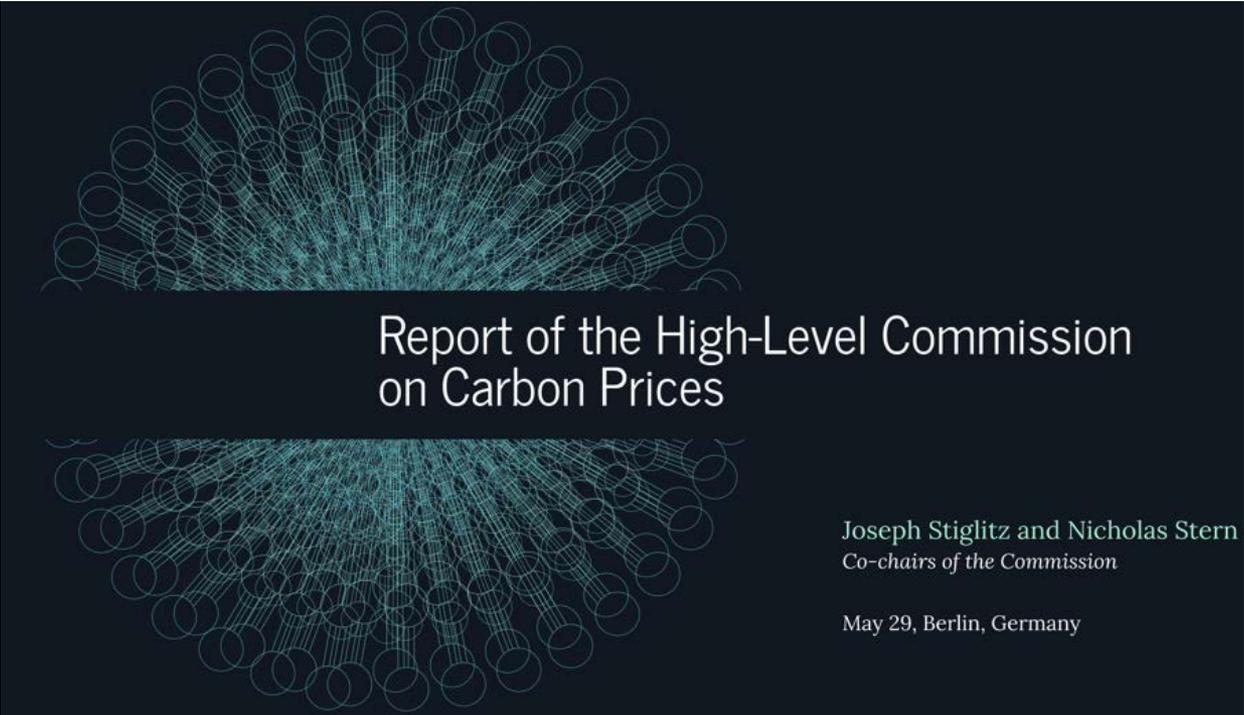
*All budgets are subject to considerable uncertainty, see Edenhofer et al. (2016)

About negative and positive CO₂-pricing

Carbon pricing (with taxes or emission trading systems) is essential because of the oversupply of fossil fuels.



Report of the High-Level Commission on Carbon Prices

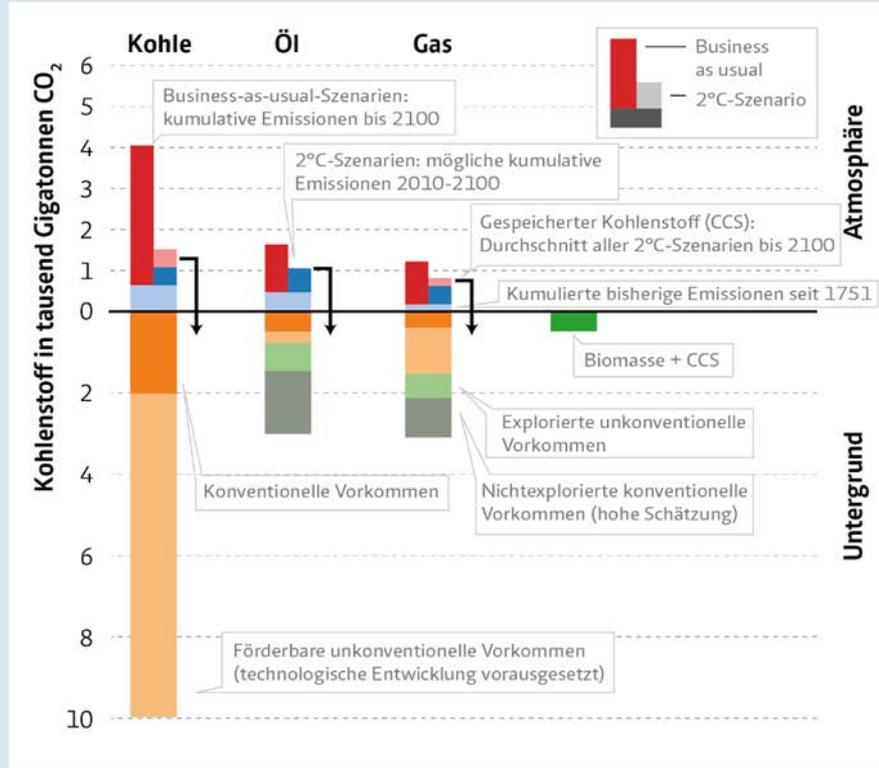


Results obtained by Stiglitz-Stern-Commission

- Based on the analysis of three approaches:
technical roadmaps, national roadmaps, global models
- Necessary carbon price for implementing the Paris Agreement:
40-80 \$/t CO₂ until 2020 and 50-100 \$/t CO₂ until 2030
- This assumes that carbon pricing will be complemented by activities and policies such as efficiency standards, R&D, urban development, healthy climate for investments, etc.
- Stress on the relevance of the income side. Put to use in order to reduce other taxes, invest in clean infrastructure, etc.

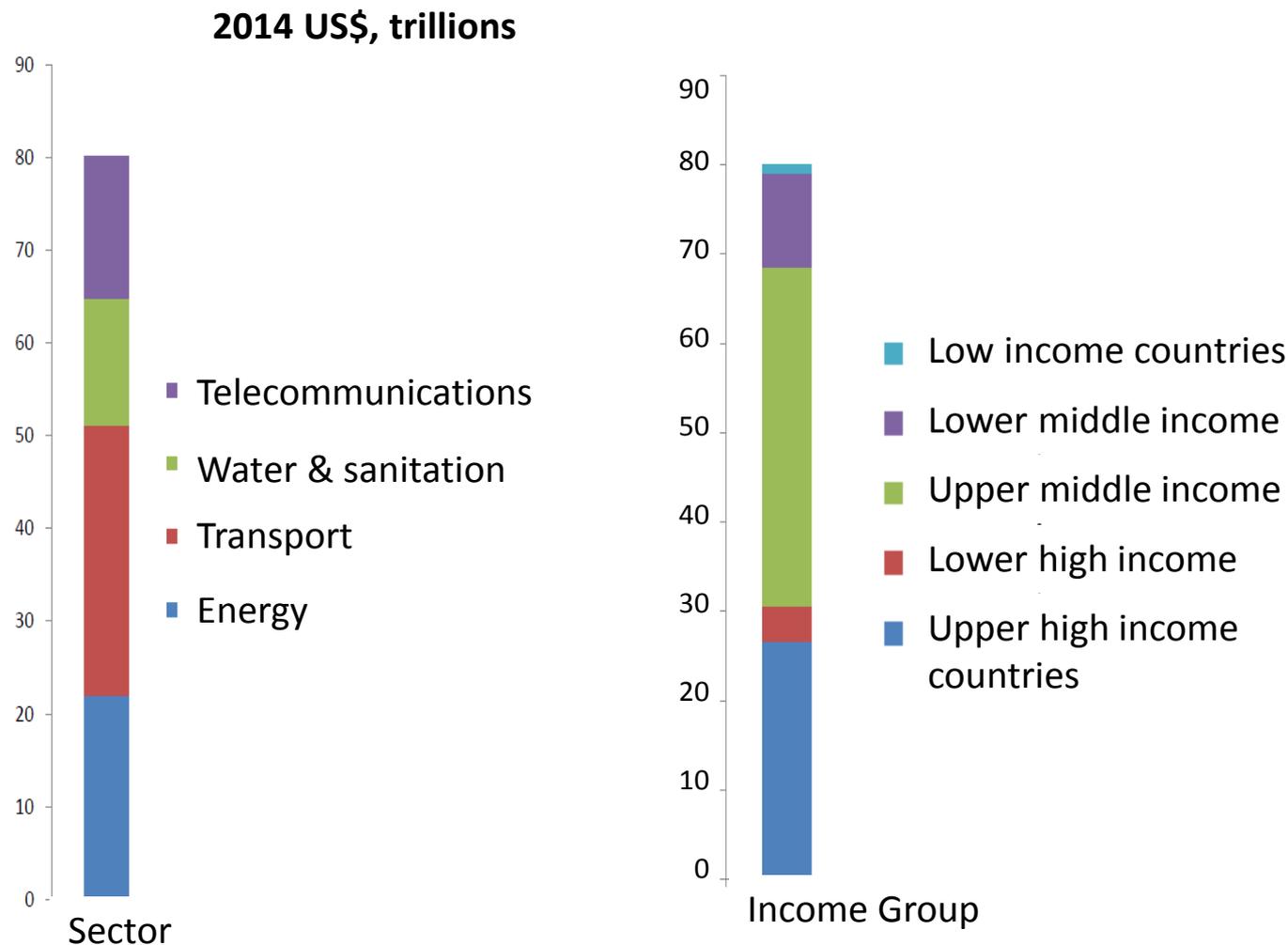
How much fossil energy the atmosphere can put up with

Vorhandene Reserven an fossilen Energieträgern im Vergleich mit der Menge, die noch benutzt werden kann, um das 2°C-Ziel zu erreichen



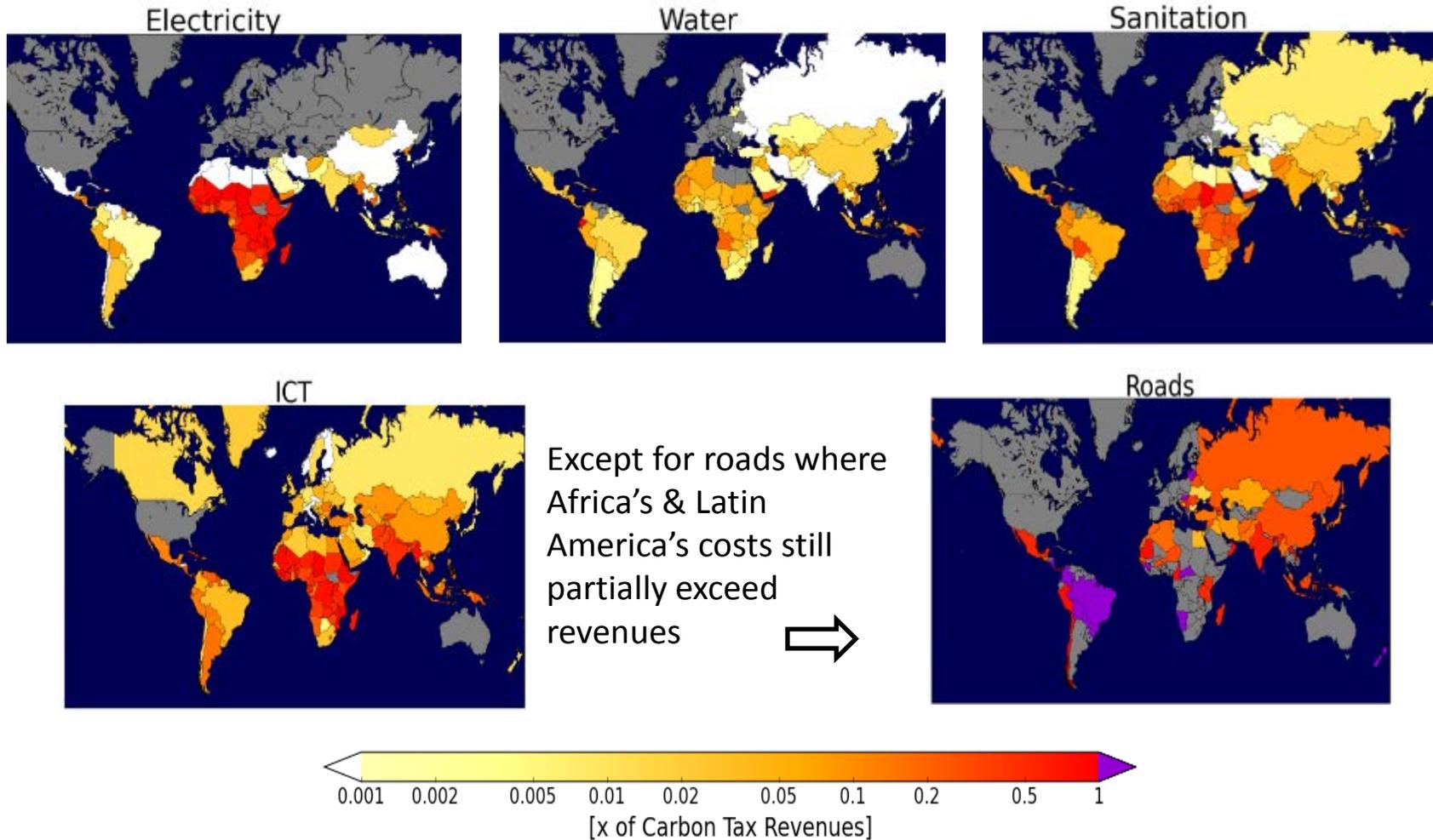
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Projected cumulative infrastructure demand, 2015-2030

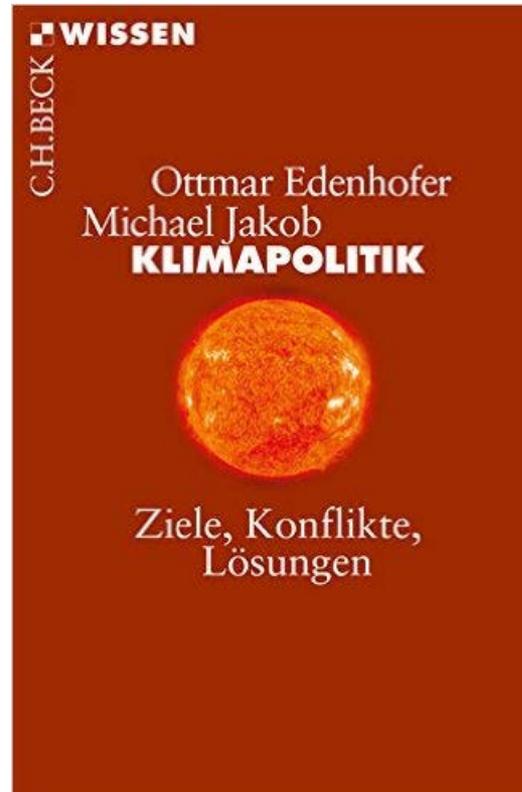


Source: Bhattacharya, Chattopadhyay, and Nagrah (forthcoming)

Carbon pricing revenues are sufficient to finance universal access to infrastructure



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