



STERN

review

ON THE ECONOMICS
OF CLIMATE CHANGE

Projected Impacts of Climate Change

Global temperature change (relative to pre-industrial)

0°C

1°C

2°C

3°C

4°C

5°C

Food

Falling crop yields in many areas, particularly developing regions

Possible rising yields in some high latitude regions

Falling yields in many developed regions

Water

Small mountain glaciers disappear – water supplies threatened in several areas

Significant decreases in water availability in many areas, including Mediterranean and Southern Africa

Sea level rise threatens major cities

Ecosystems

Extensive Damage to Coral Reefs

Rising number of species face extinction

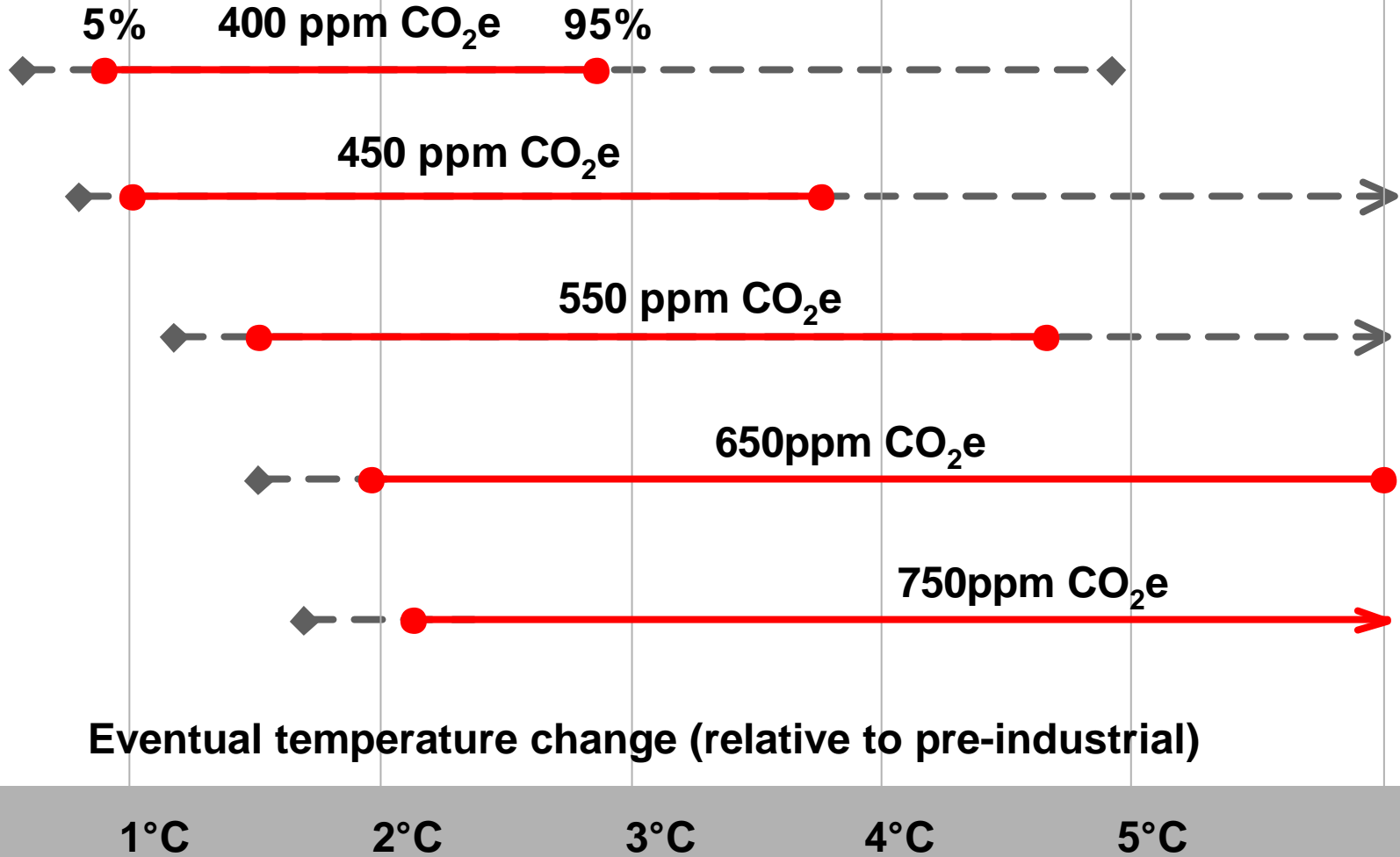
Extreme Weather Events

Rising intensity of storms, forest fires, droughts, flooding and heat waves

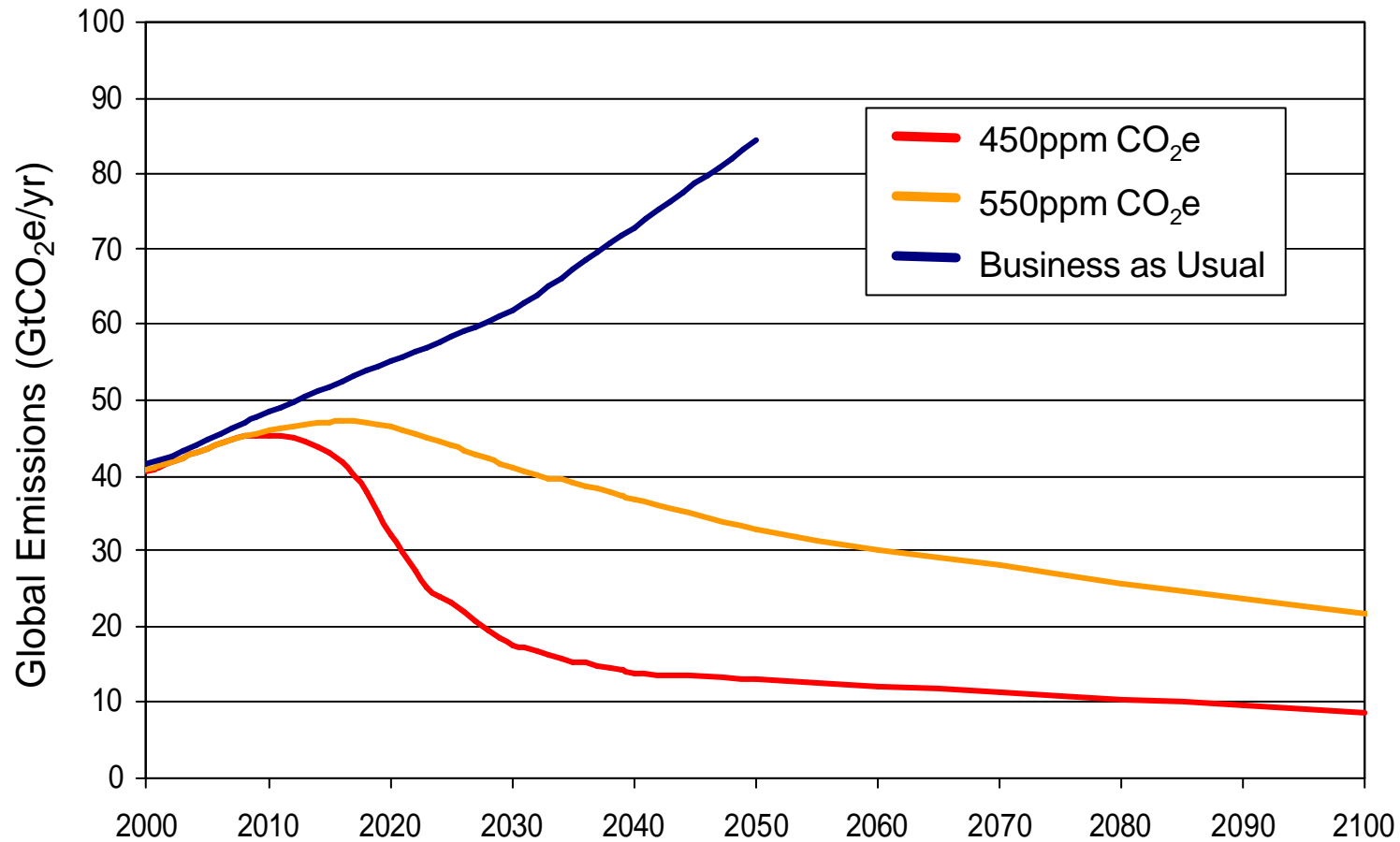
Risk of Abrupt and Major Irreversible Changes

Increasing risk of dangerous feedbacks and abrupt, large-scale shifts in the climate system

Stabilisation and Commitment to Warming

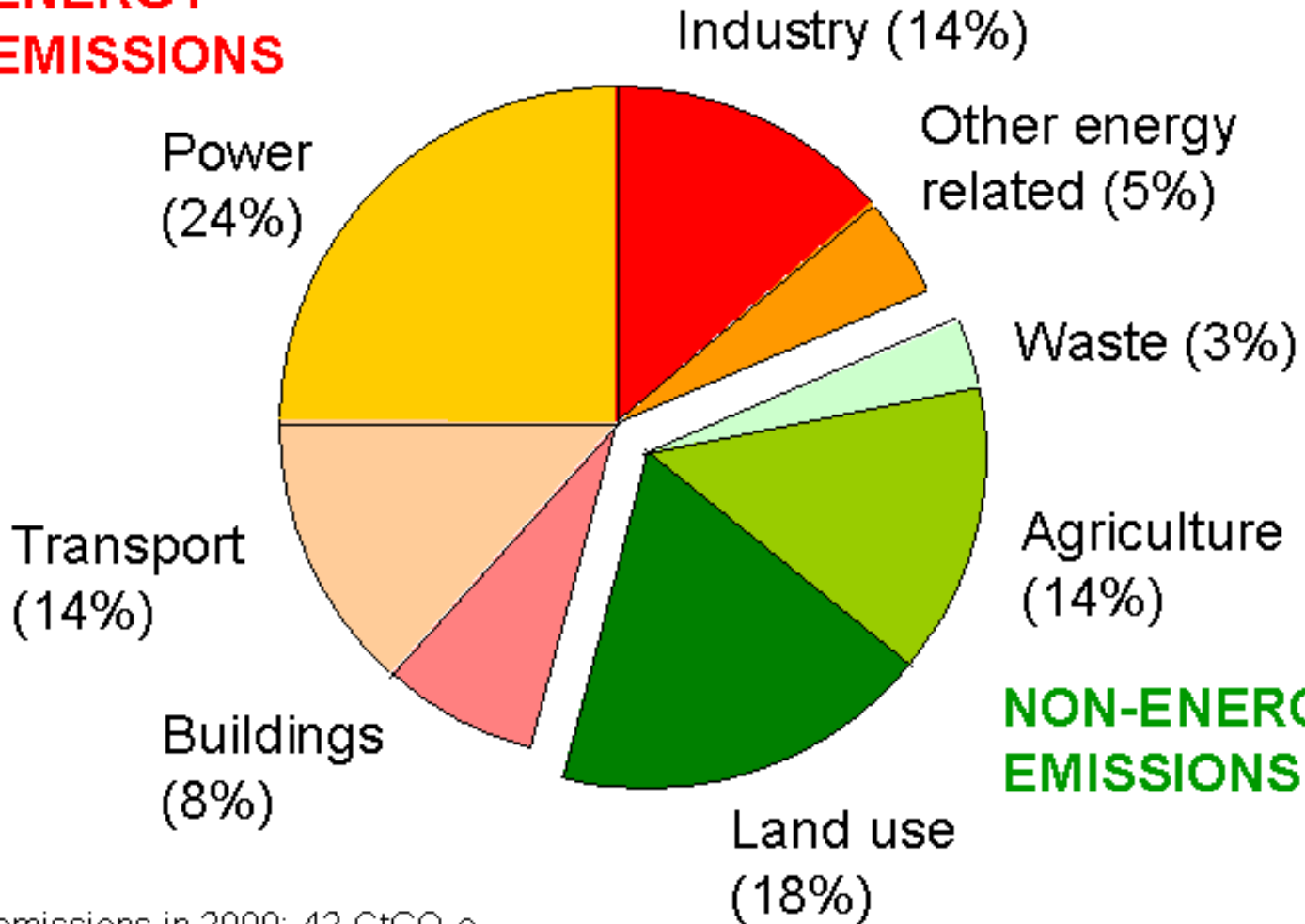


Emissions Paths to Stabilisation



Global Emissions by Sector

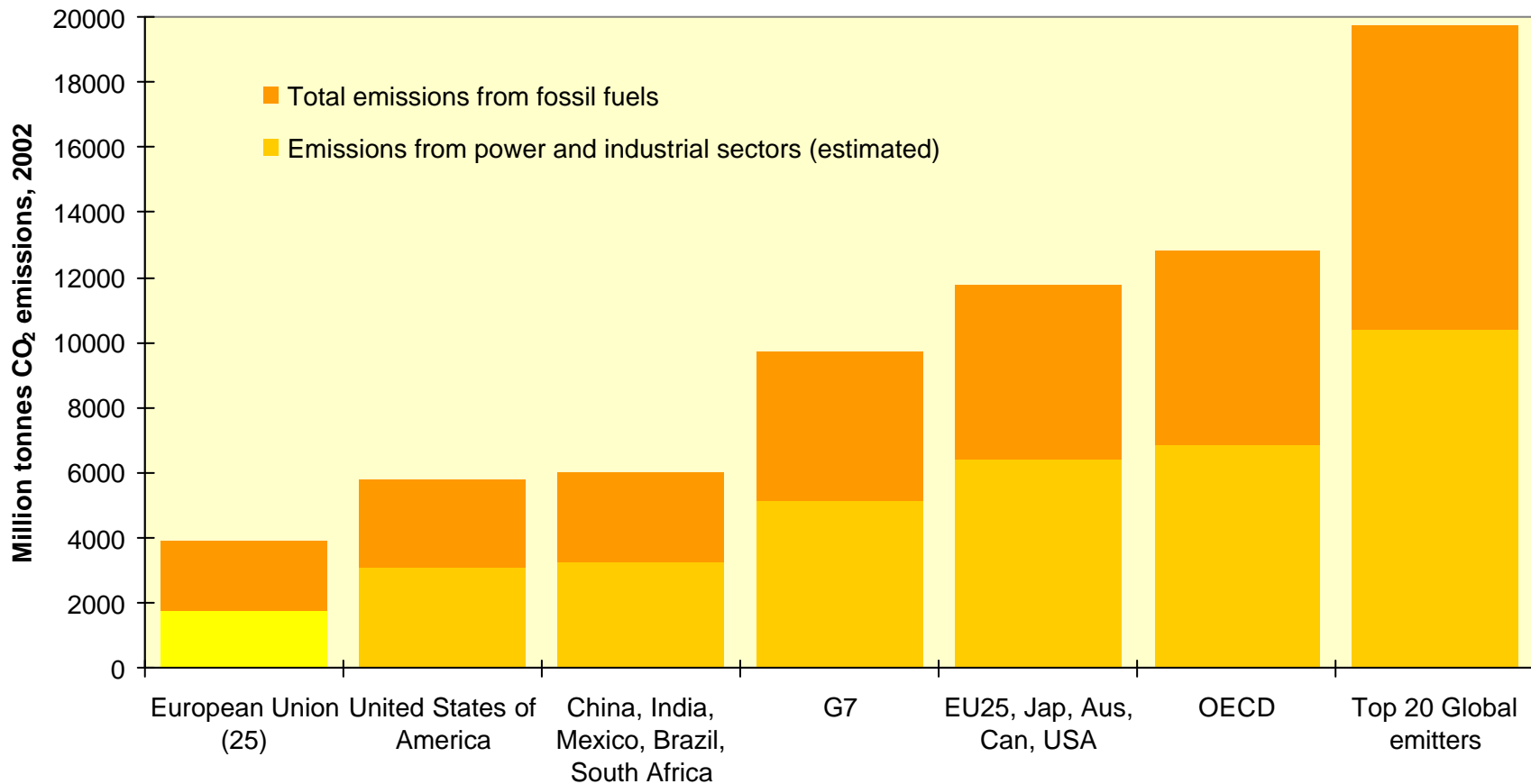
ENERGY EMISSIONS



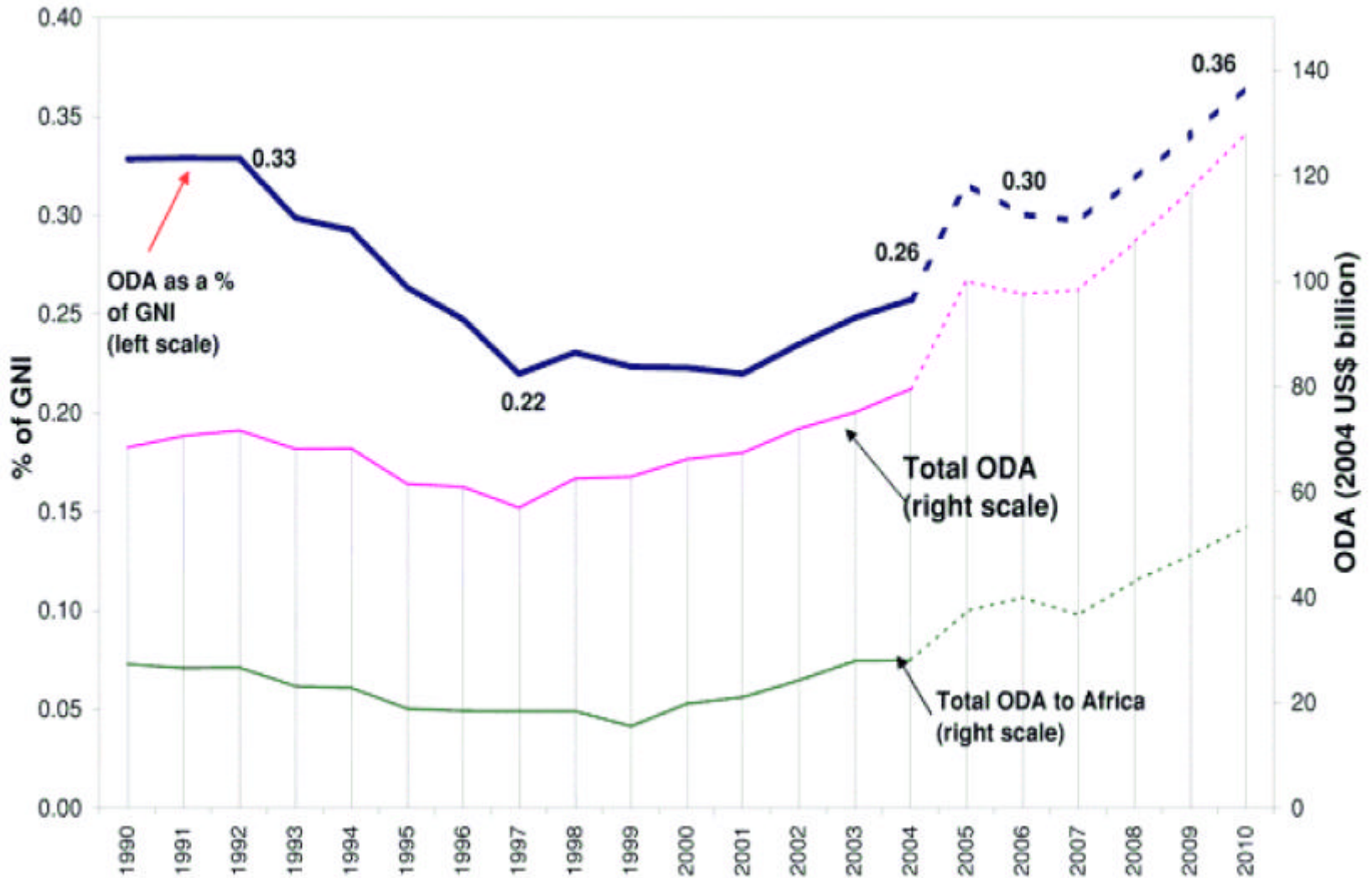
NON-ENERGY EMISSIONS

Total emissions in 2000: 42 GtCO₂e.

Potential Emissions Markets from Power and Industrial Sectors



Adaptation: Scaling up Overseas Development Aid





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