





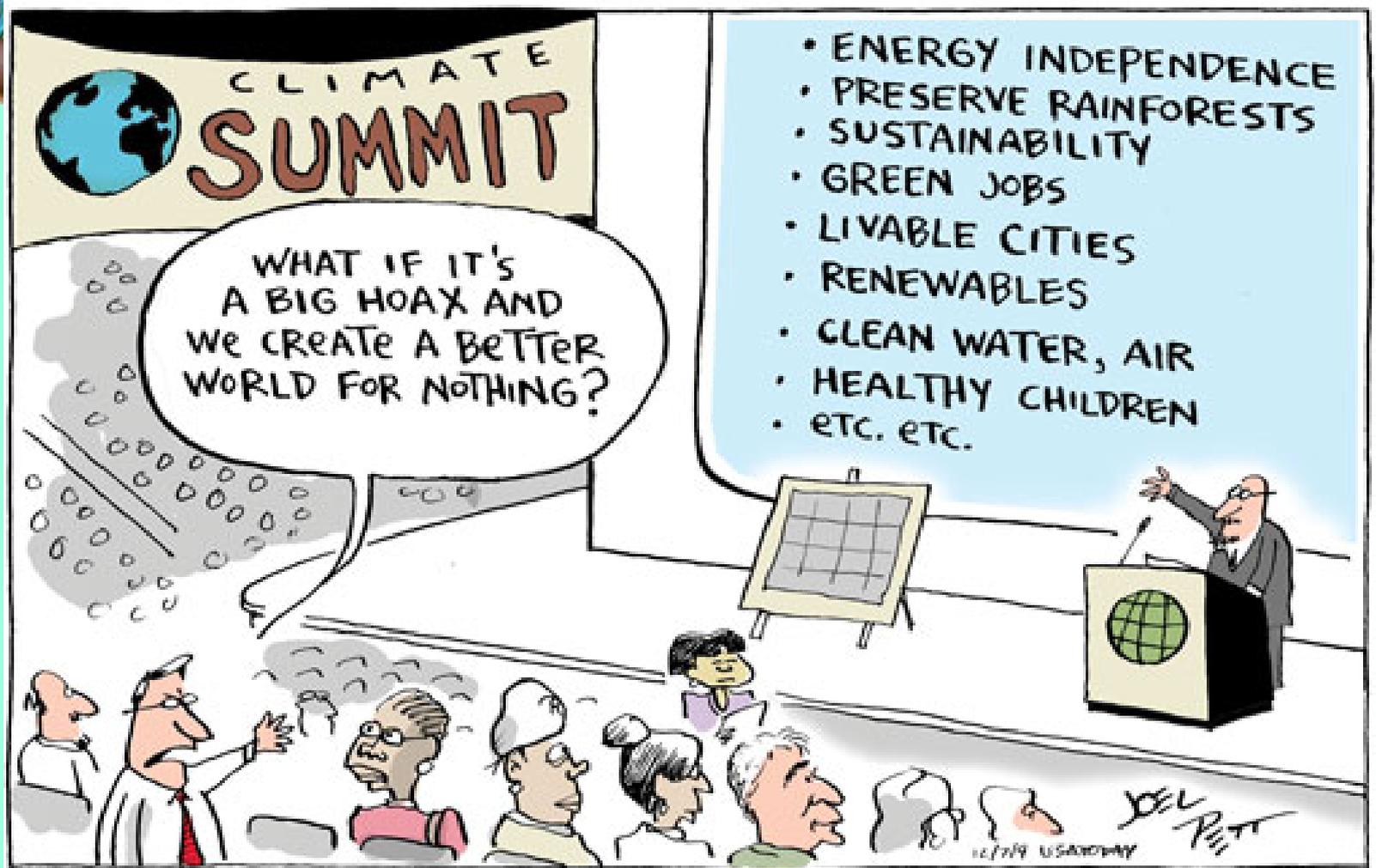
Costs to Africa as it hots up

| Temperature rise | Year reached | Economic costs (% of African GDP) |
|------------------|--------------|--------------------------------------|
| 1.5°C | 2040 | 1.7% |
| 2°C | 2060 | 3.4% |
| 4.1°C | 2100 | 10% |

Stern Review on (global) mitigation costs:

- 2% of world GDP likely to be needed**
- inaction likely to cost 5% to 20% of GDP**







We have no option but to manage our natural resources in a sustainable way.

We have no choice but to be eco-friendly. We have no choice but to develop a green economy [which] should seek to address the interdependence between economic growth, social protection and the preservation of natural ecosystems.

- from a speech by the President on 18 May 2010



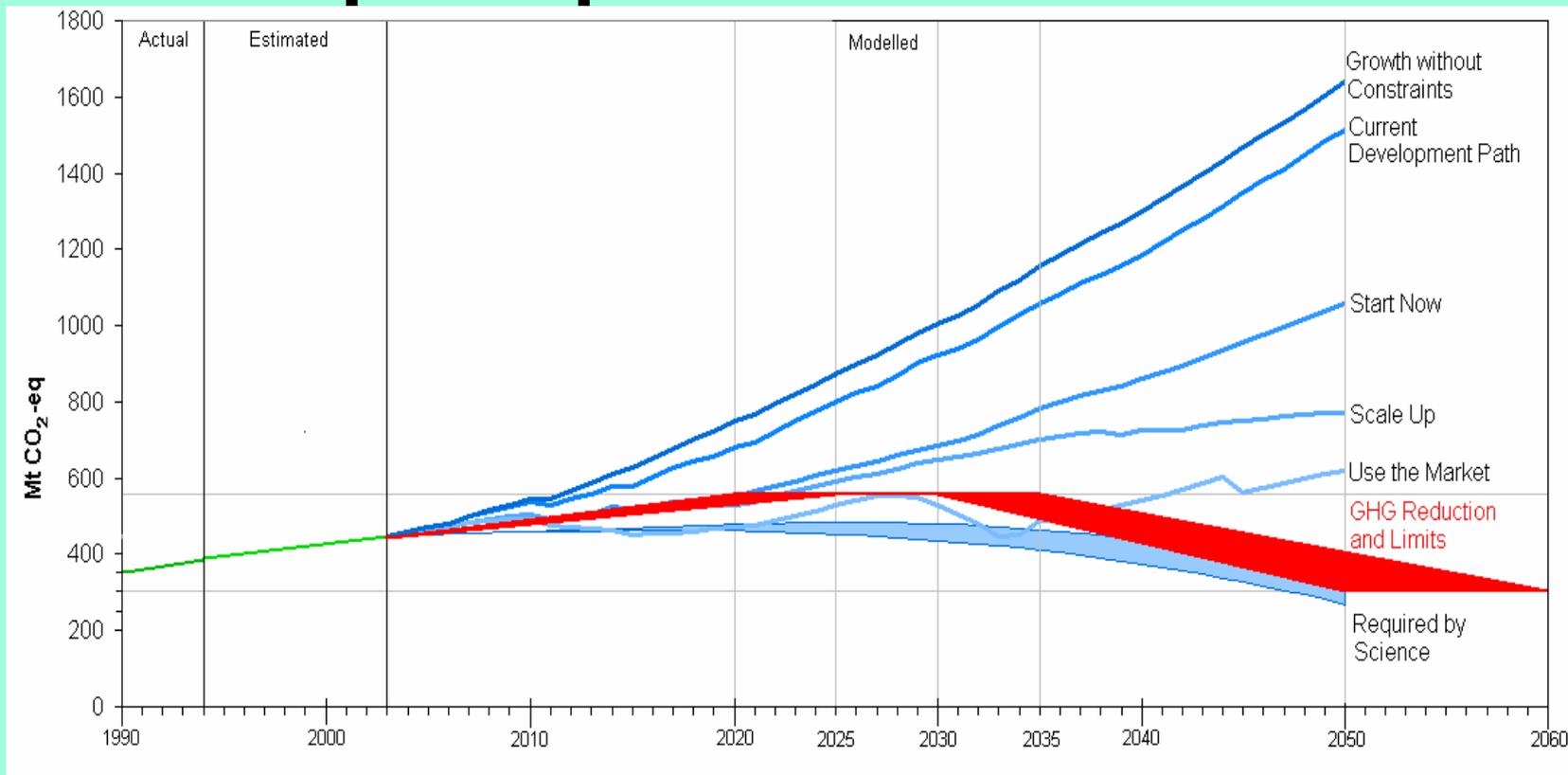






Emissions reductions

LTMS peak-plateau-decline



- 34% deviation below [GWC+IRP1] by 2020
- 42% deviation below by 2025





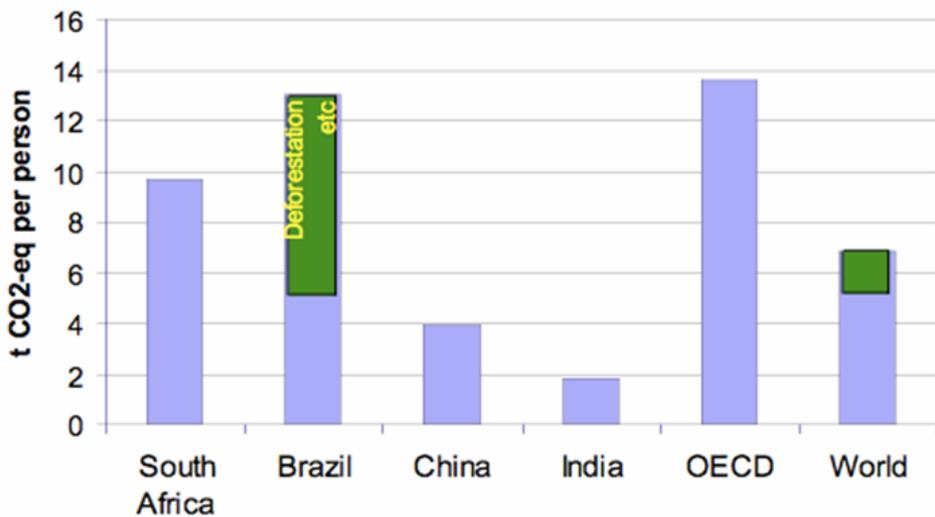


Answers to some questions

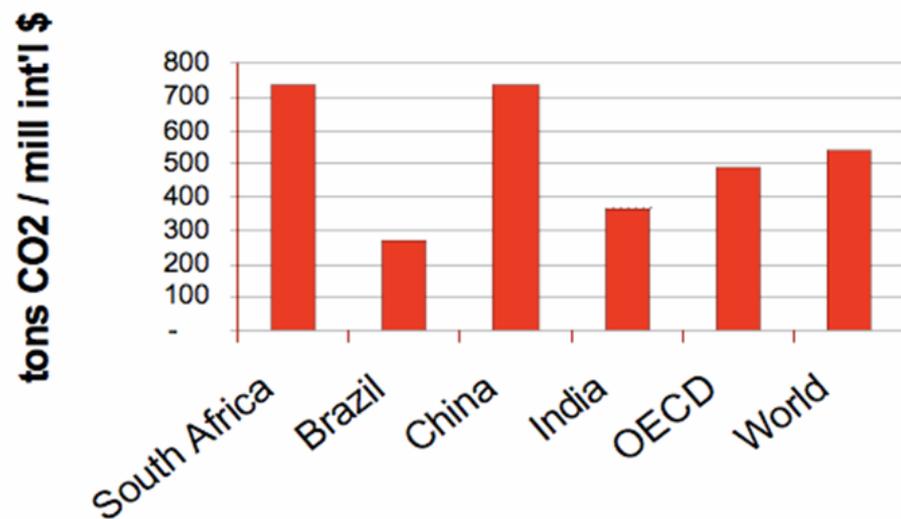
Where does SA rank globally as an emitter?

It depends what you measure: all greenhouse gases (GHG or CO₂-eq), or just carbon dioxide (CO₂); whether it includes deforestation or not; is it total emissions or *per capita* or emissions intensity? and in which year?

Emissions per capita



Emissions intensity





Answers to some questions

Will climate change impact on malaria?

South African Risk and Vulnerability Atlas has a case study '*Environmental health: Bridging the gap between traditional health concerns and a changing climate*' with a map showing 'Ten-year variation in malaria cases per municipality in Limpopo Province'

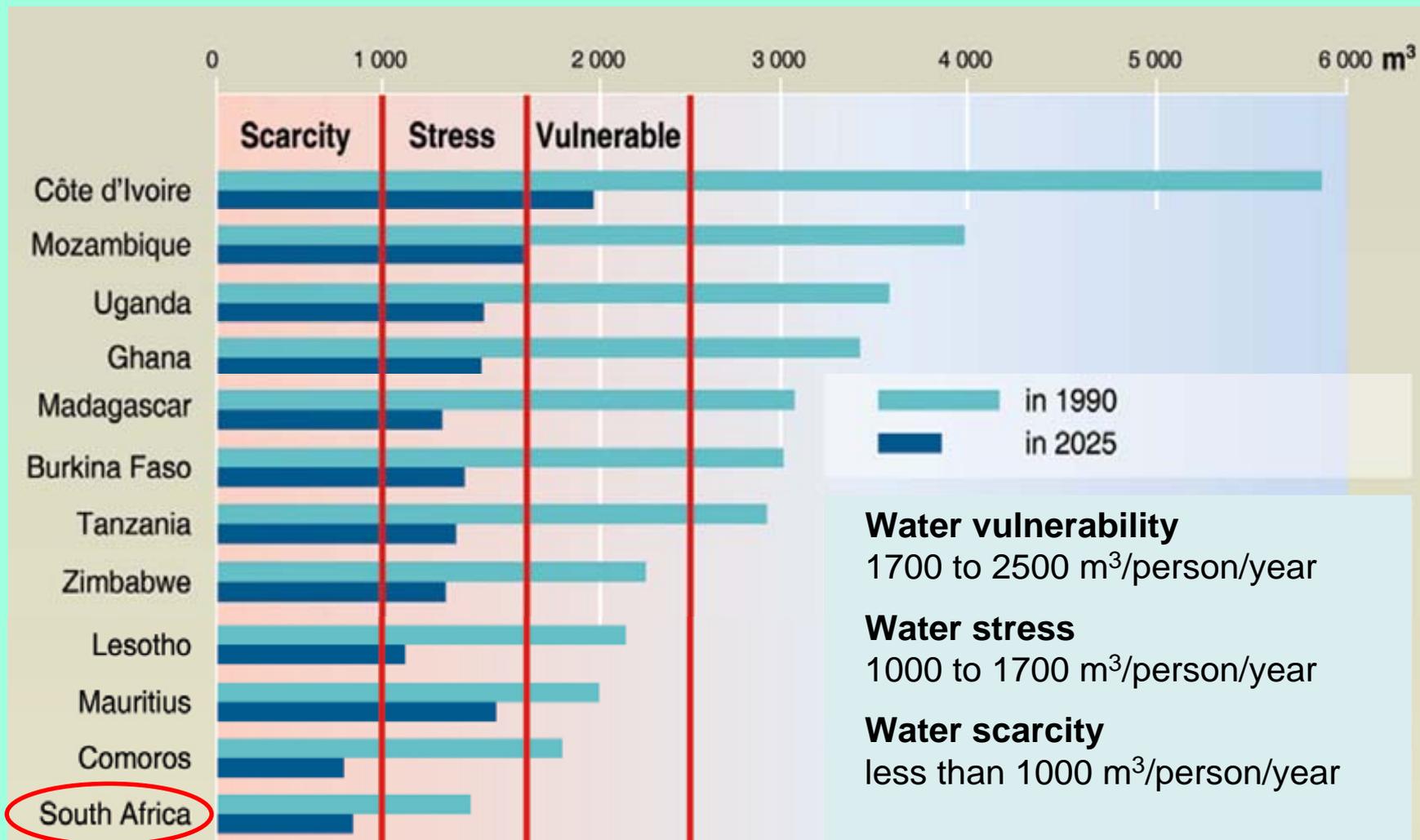
<http://www.rvatlas.org>





Answers to some questions

When will water demand outstrip supply?





EARTH HOUR™

8.30pm Saturday 26 March

How can we go beyond the hour?

<http://www.earthhour.org>





Publications and a database

(WWF International) *The Living Planet Report 2010*

-- makes the case for development within our natural resources budget

(WWF International) *The Energy Report 2011: 100% Renewable Energy by 2050* (available at <http://www.wwf.org.za>)

-- what the world has to do to live within our carbon budget and how

(WWF-SA) *50% by 2030: Renewable Energy in a Just Transition to Sustainable Electricity Supply*

-- includes a scenario showing SA can meet baseload demand without nuclear

-- page 38 has sources for the jobs figures that Dr Huang asked about

(WWF International) *The New Climate Deal: A Pocket Guide*

-- friendly introductions to issues of climate change and of the UNFCCC negotiations (prepared before COP15 in Copenhagen but most still relevant)

South African Risk and Vulnerability Atlas <http://www.rvatlas.org>

