



EUROPEAN
ENVIRONMENT
FOUNDATION

7TH INTERNATIONAL CONVENTION OF ENVIRONMENTAL LAUREATES

FREIBURG, GERMANY · 15 - 18 MARCH 2018



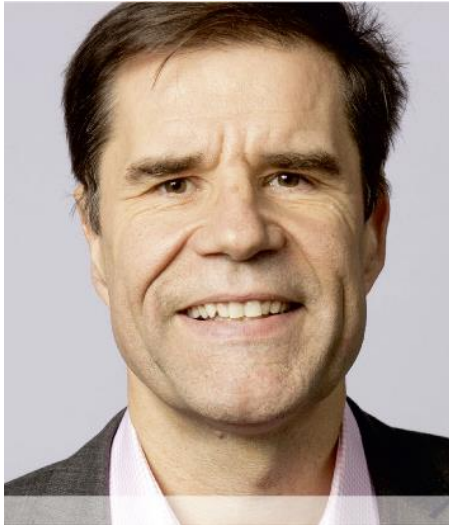
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◆ **Mathis Wackernagel**
CEO Global Footprint Network

„One-planet prosperity: what does it take?“



One-Planet Prosperity for All

Dr. Mathis Wackernagel
ICEL, Freiburg
16. March 2018



Global Footprint Network®
Advancing the Science of Sustainability



Hi neighbor, I am **Sandra**, and I will be **51** in 2050.

What I want for 2050 is

2°C



COP21 • CMP11

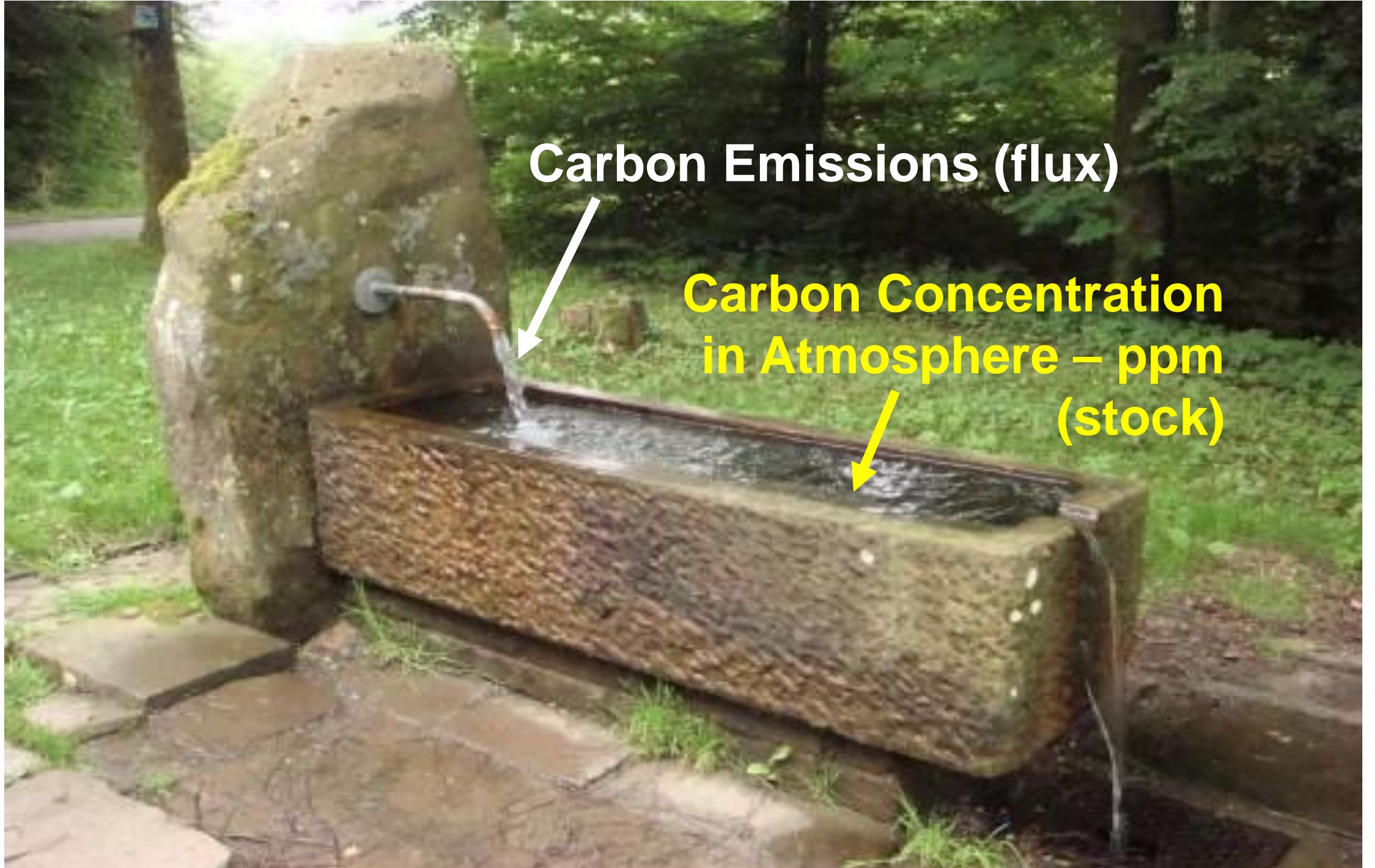
PARIS 2015

UN CLIMATE CHANGE CONFERENCE

450 ppm CO_{2e}

Carbon Emissions (flux)

**Carbon Concentration
in Atmosphere – ppm
(stock)**



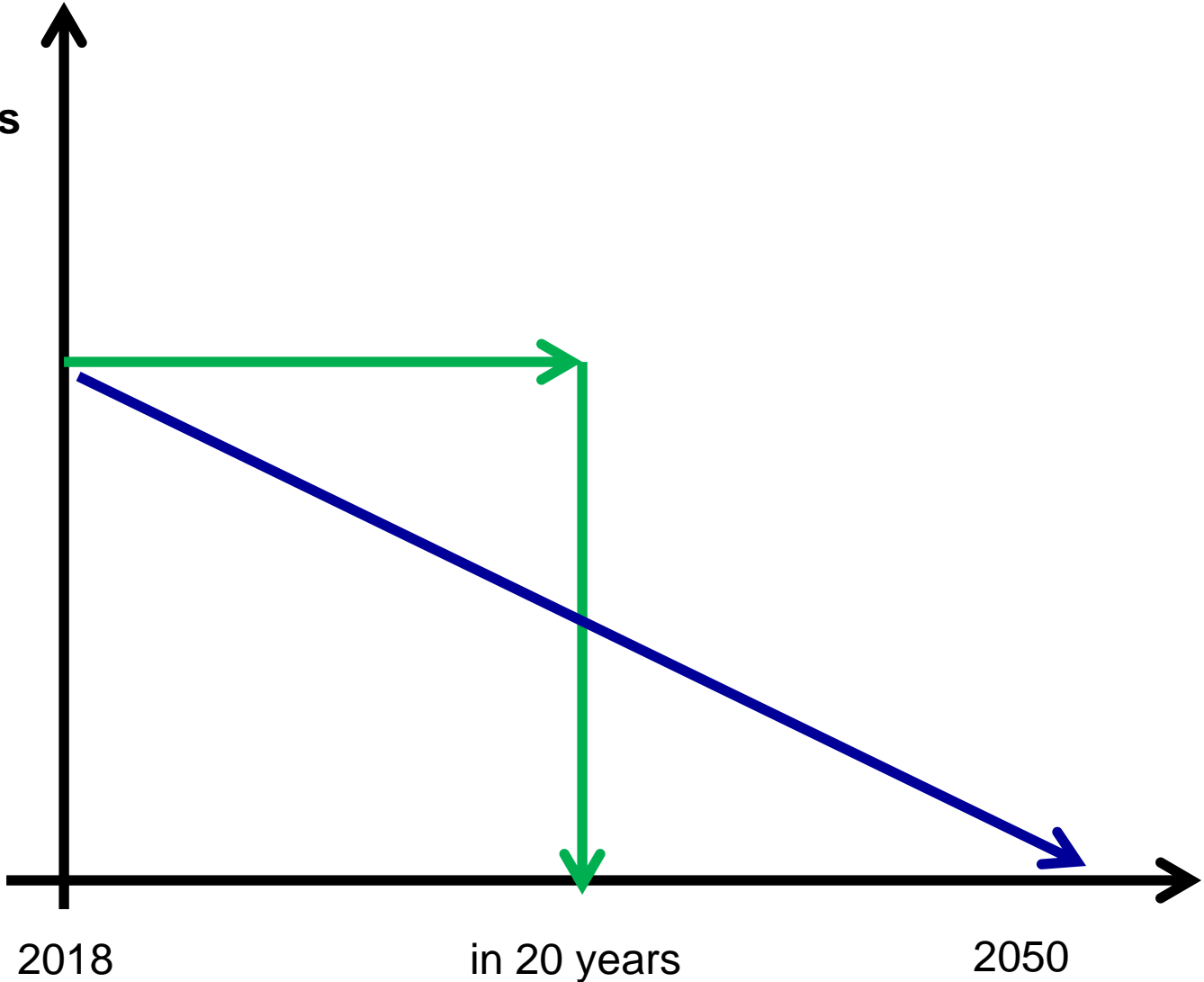
408 ppm CO₂ (today)

>2 ppm/yr

450 ppm CO_{2e}

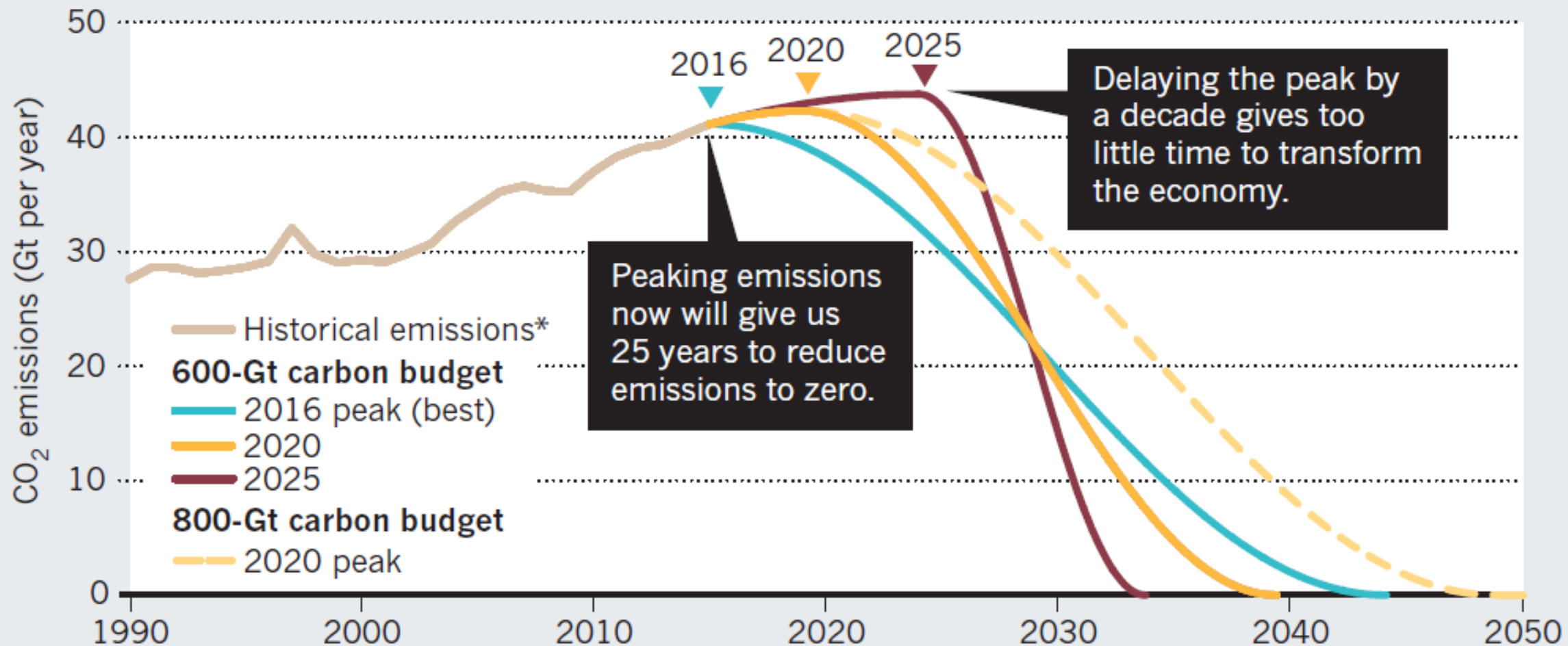
= max 20 years of emission

Carbon Emissions



CARBON CRUNCH

There is a mean budget of around 600 gigatonnes (Gt) of carbon dioxide left to emit before the planet warms dangerously, by more than 1.5–2°C. Stretching the budget to 800 Gt buys another 10 years, but at a greater risk of exceeding the temperature limit.



OCCO 2050

What is Possible?

FOOD

www.DrawDown.org







1. I **want** Paris to succeed

2. I think it is **possible** for Paris to succeed

3. I think it is **likely** for Paris to succeed

Misconceptions...

Misconceptions...

Resources negative or irrelevant

The Changing Wealth of Nations 2018

Building a
Sustainable
Future



WORLD BANK GROUP



TABLE ES.1 Wealth, by Type of Asset and Region, 2014

Type of asset	Low-income countries (%)	Lower-middle-income countries (%)	Upper-middle-income countries (%)	High-income Non-OECD countries (%)	High-income OECD countries (%)	World (%)
Produced capital	14	25	25	22	28	27
Natural capital	47	27	17	30	3	9
Human capital	41	51	58	42	70	64
Net foreign assets	-2	-3	0	5	-1	0
Total wealth	100	100	100	100	100	100
Total wealth, US\$ billion	\$7,161	\$70,718	\$247,793	\$76,179	\$741,398	\$1,143,249
Total wealth per capita	\$13,629	\$25,948	\$112,798	\$264,998	\$708,389	\$168,580

Source: World Bank calculations.

Note: Figures for wealth are in constant 2014 US dollars at market exchange rates.



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Misconceptions...

Resources negative or irrelevant

Rather.....

Resource security is significant

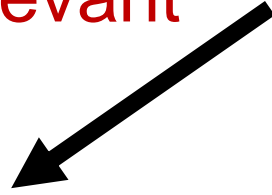
Misconceptions...

Resources negative or irrelevant

Non-renewables are most limited

Rather.....

Resource security is significant



Our ultimate biophysical resource: **Biocapacity**



Misconceptions...

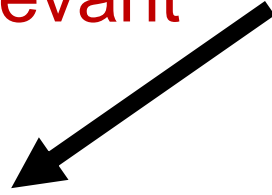
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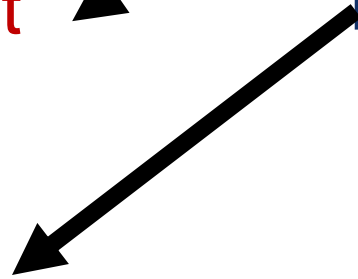
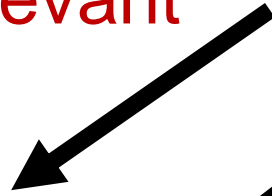
Non-renewables are most limited

We need to boost supply

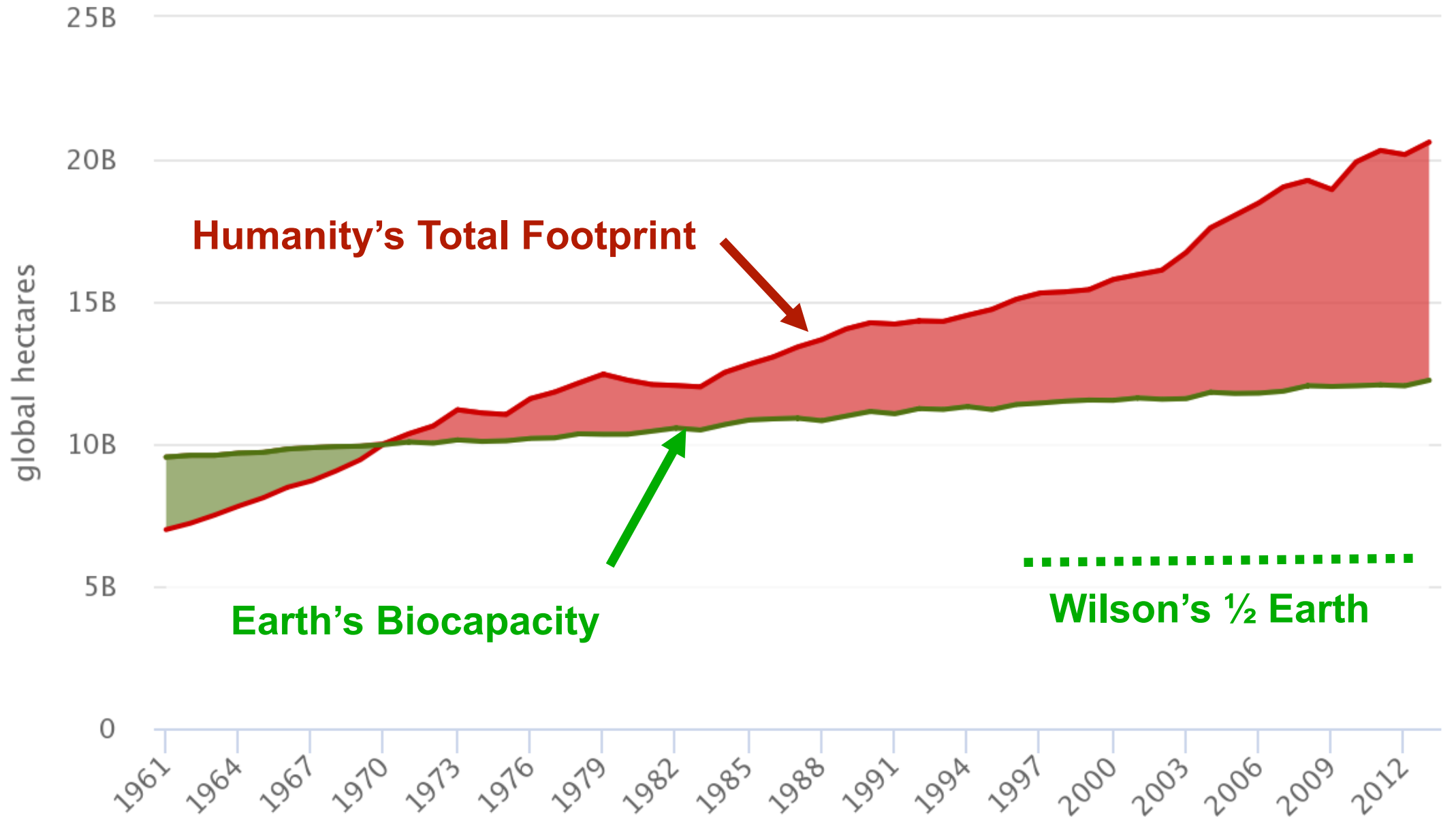
Rather.....

Resource security is significant

Renewables are most limited



World



Life, including human life,...



...cooperates, and also...

**...competes for biologically
productive areas.**

Ecological Footprint



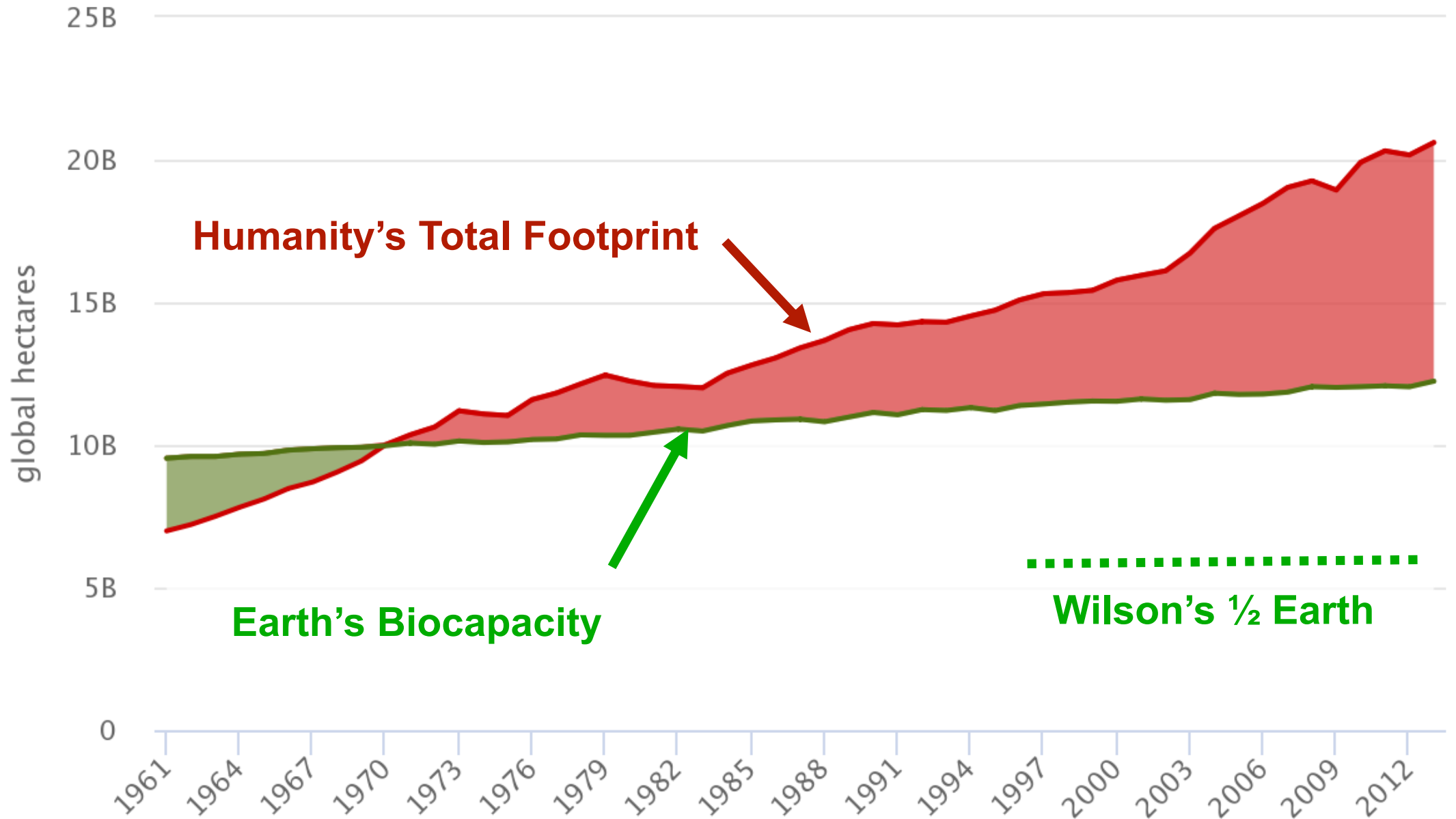
demand

=

1.7

regeneration

World



Misconceptions...

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Rather.....

Resource security is significant

Renewables are most limited

We need to manage demand

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Addressing constraints is only good for humanity

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We need to manage demand

There is direct self-preservation and self-interest in addressing resource dependence

Misconceptions...

Resources negative or irrelevant

Non-renewables are most limited

We need to boost supply

Addressing constraints is only good for humanity

Resource security is not a high priority

Rather.....

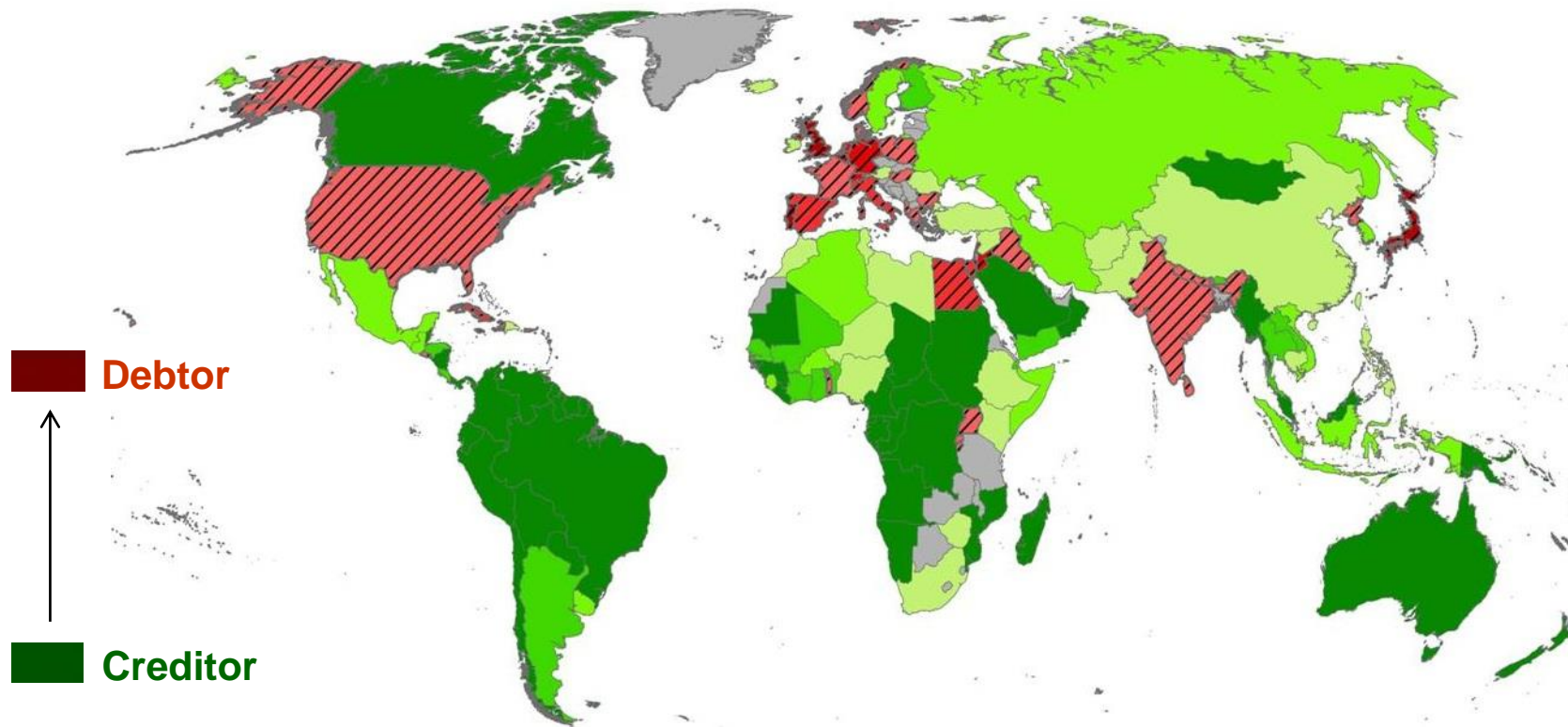
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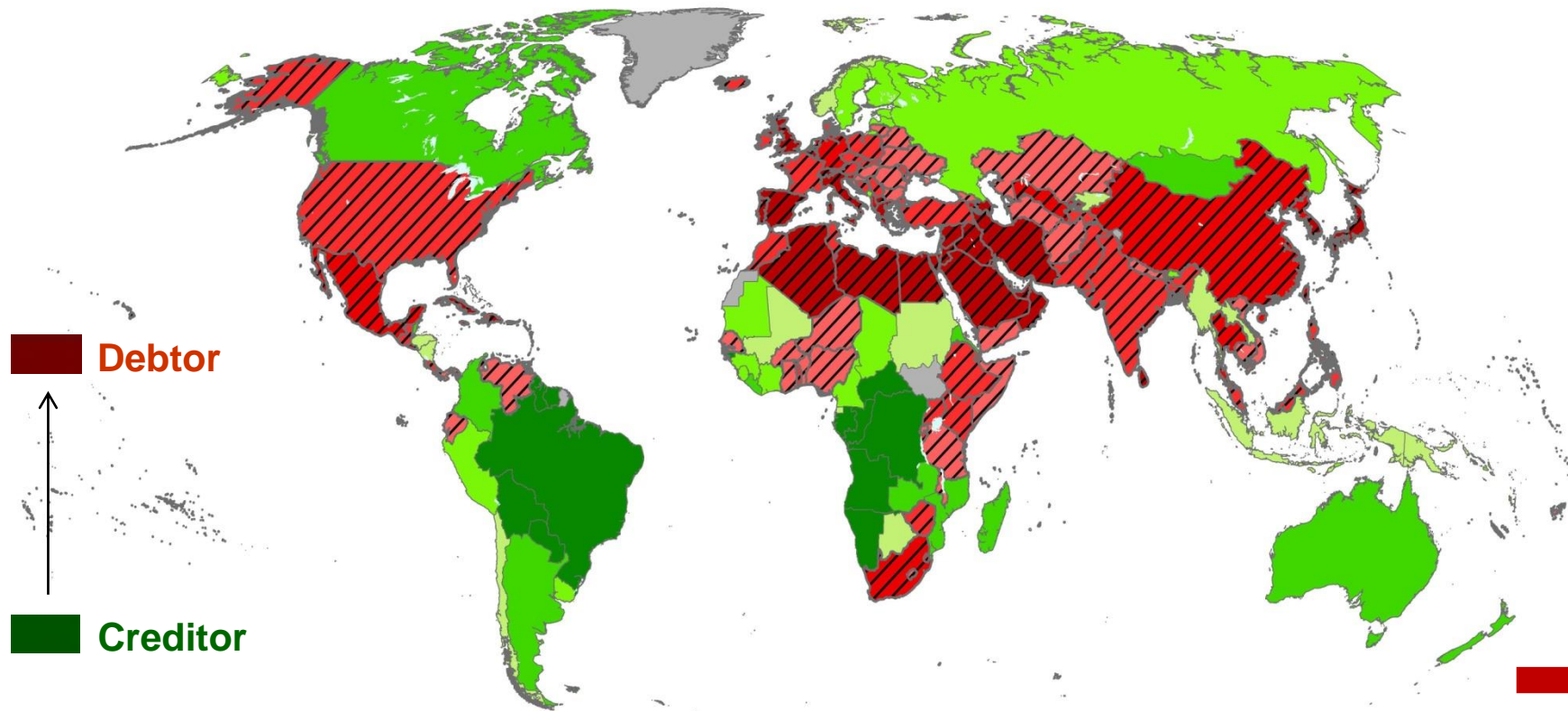
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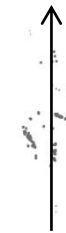
Ecological Reserves and Ecological Deficits – 1961



Ecological Reserves and Ecological Deficit – current



Debtor



Creditor

$$\frac{\text{Global Footprint}}{\text{Global Biocapacity}} = 1.7$$

70%

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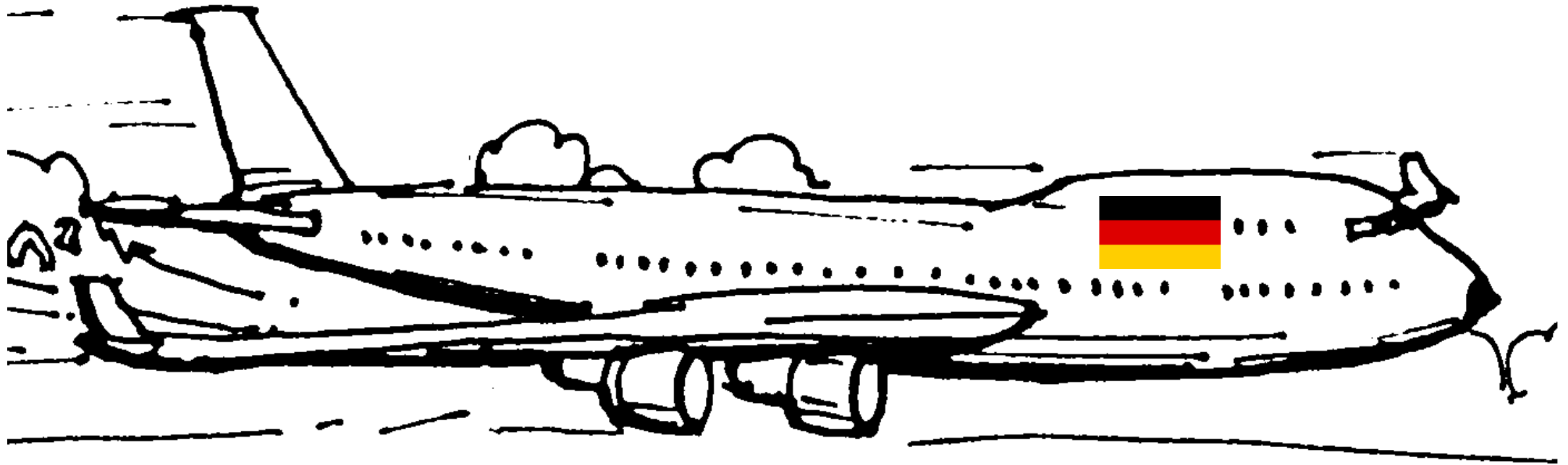
There is direct self-preservation and self-interest in addressing resource dependence

Without embedding resource security into every dollar spent, we become irrevocably frail



Believe?

No, bet!!!



Driving question:

What do you need to know in order to operate Germany safely?



Lasts year
Earth Overshoot Day
landed
on August 2



DONATE

www.footprintcalculator.org

WHAT IS YOUR

Ecological Footprint?

How many planets does it take to support your lifestyle?

When is your personal Overshoot Day?

TAKE THE FIRST STEP

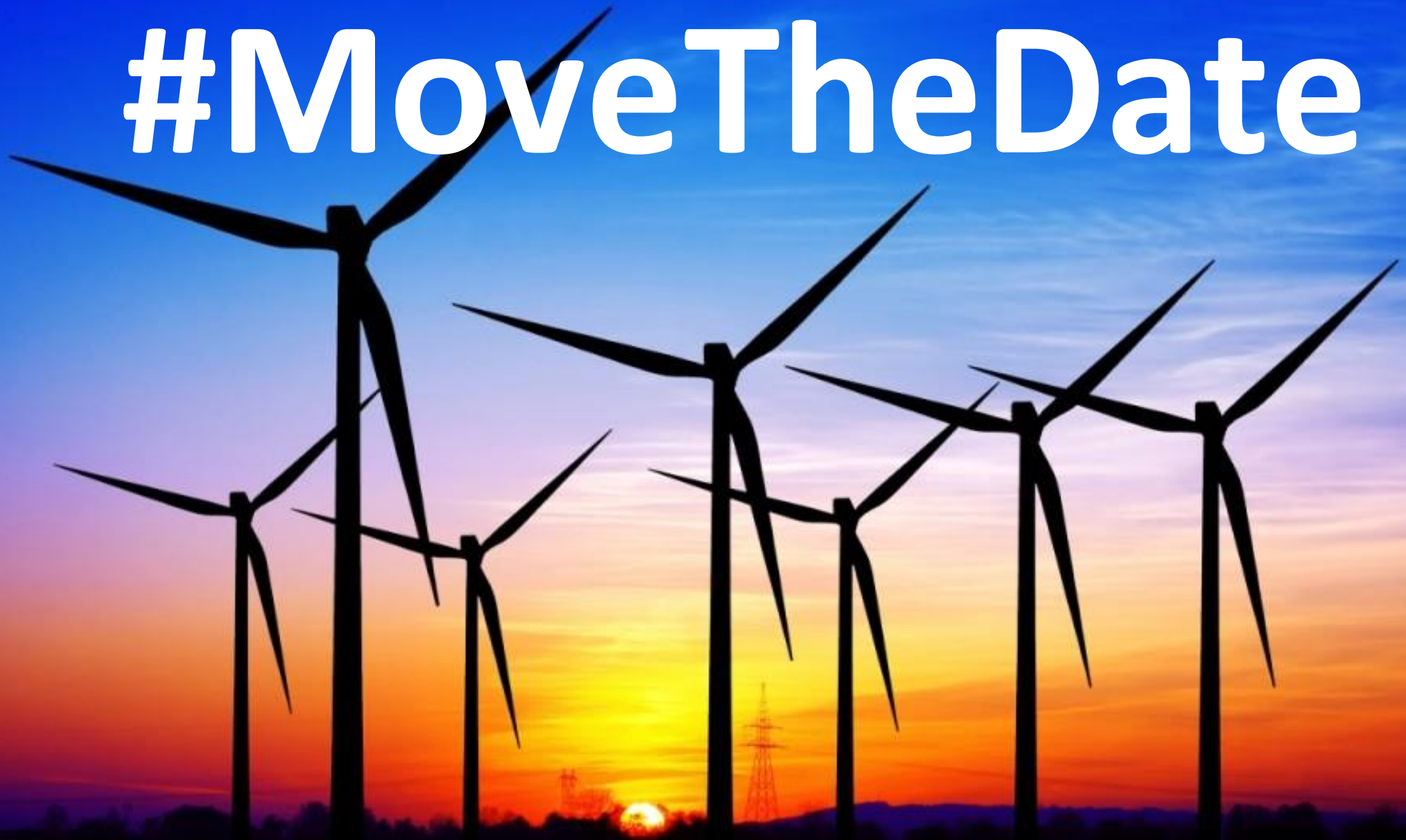




EARTH OVERSHOOT DAY



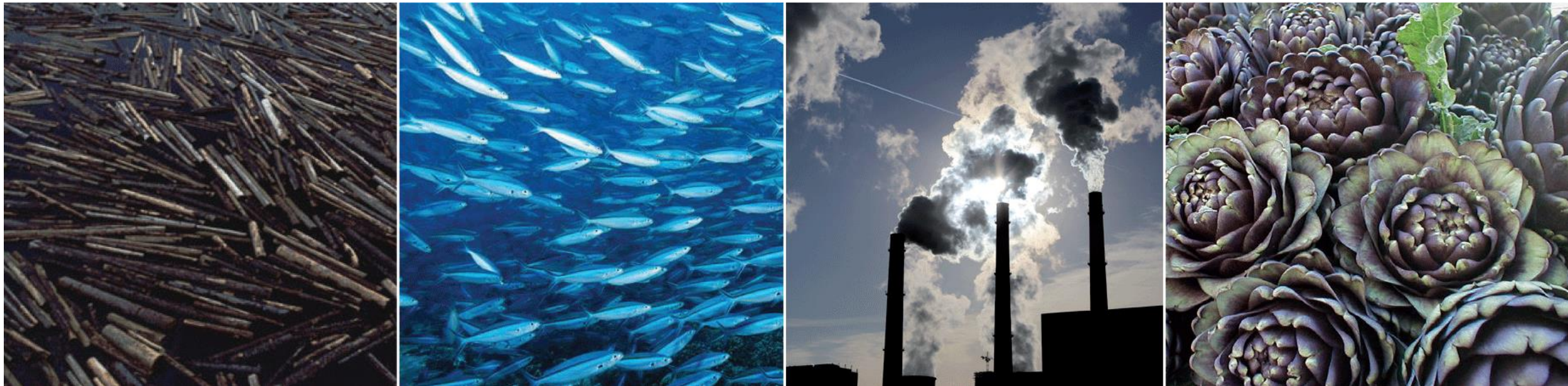
#MoveTheDate





Footprint 1 by 2050? The Swiss voted in Sept 2016





One-Planet Prosperity for All - What do YOU want?

Can we feature you #MoveTheDate?



www.overshootday.org
www.footprintnetwork.org
mathis@footprintnetwork.org



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