

A PRESENTATION ON COVID-19

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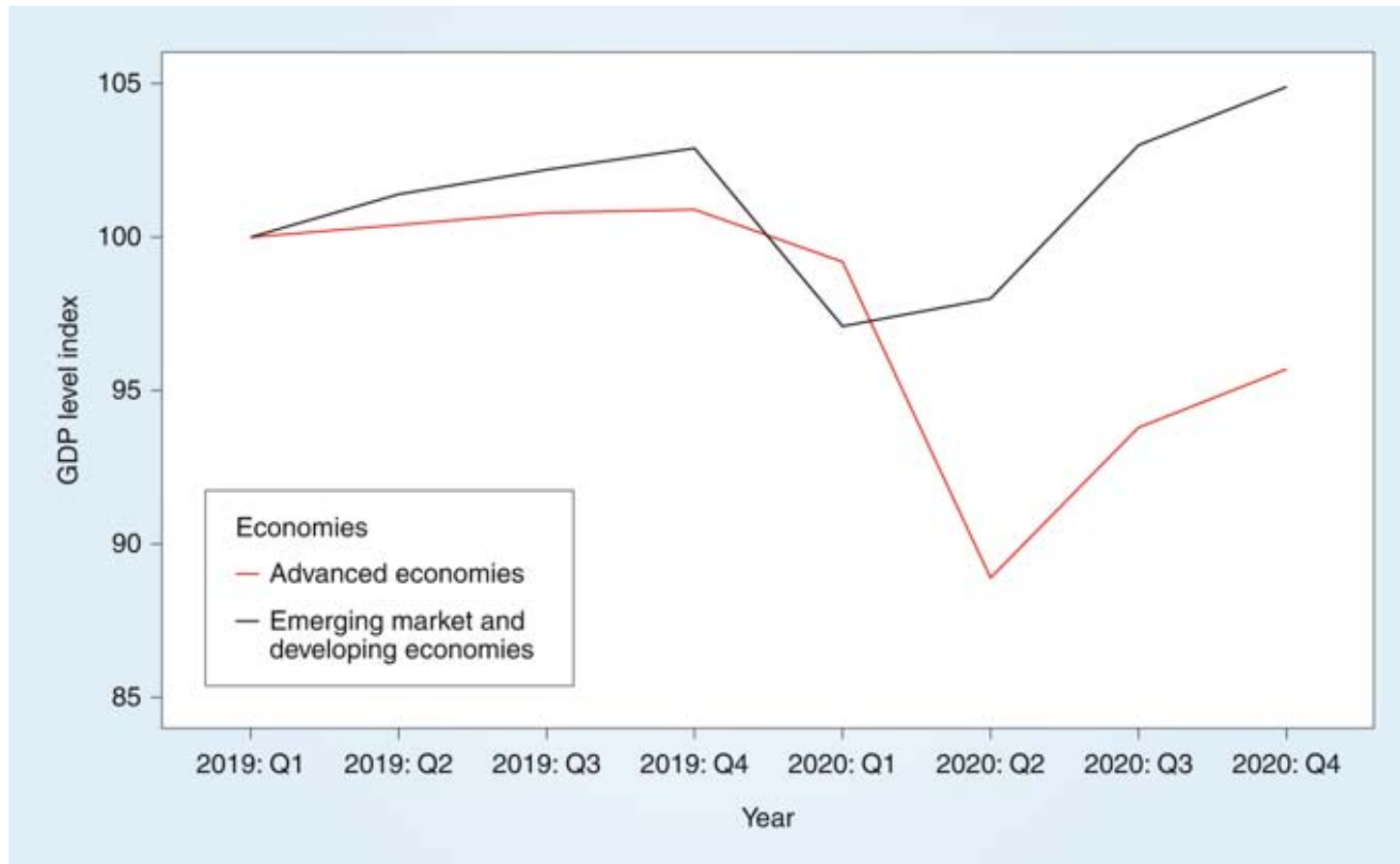


FROM COVID-19 to COP-26:

Integrating climate action with pandemic recovery

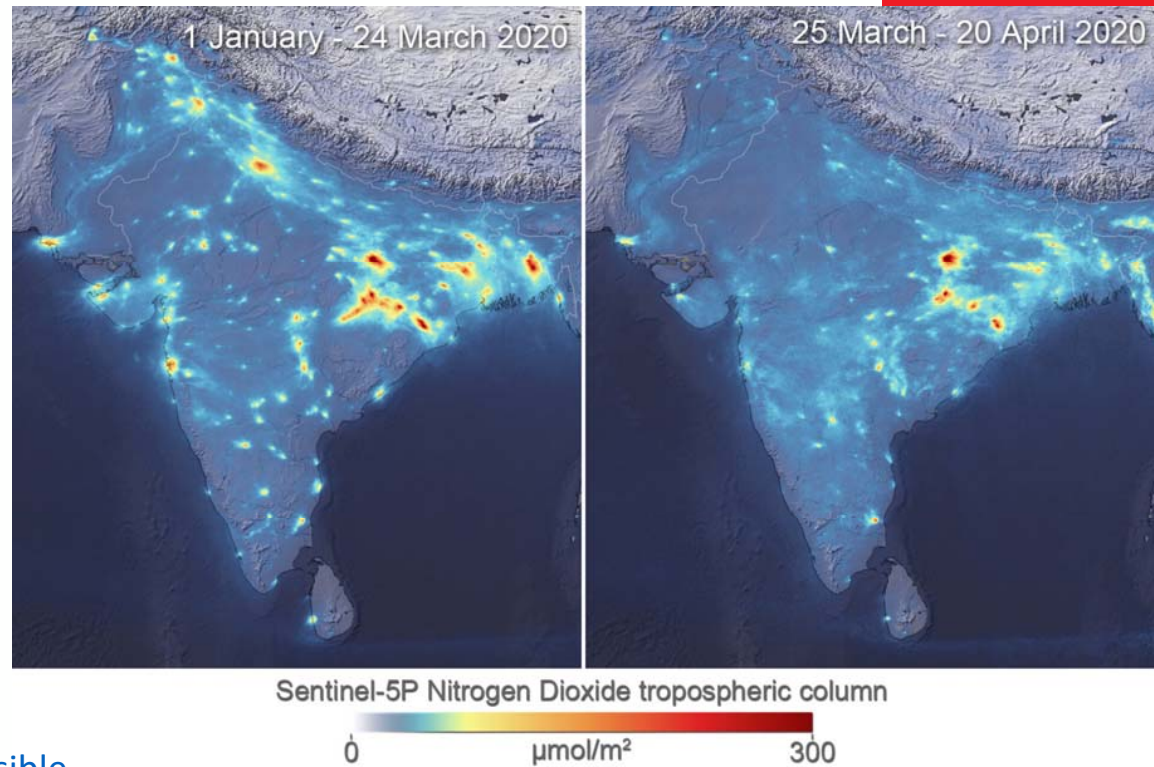
Economic recession: the need for recovery policies that integrate health, equity and sustainability

Guerriero, Haines, Pagano Nature Sustainability 2020



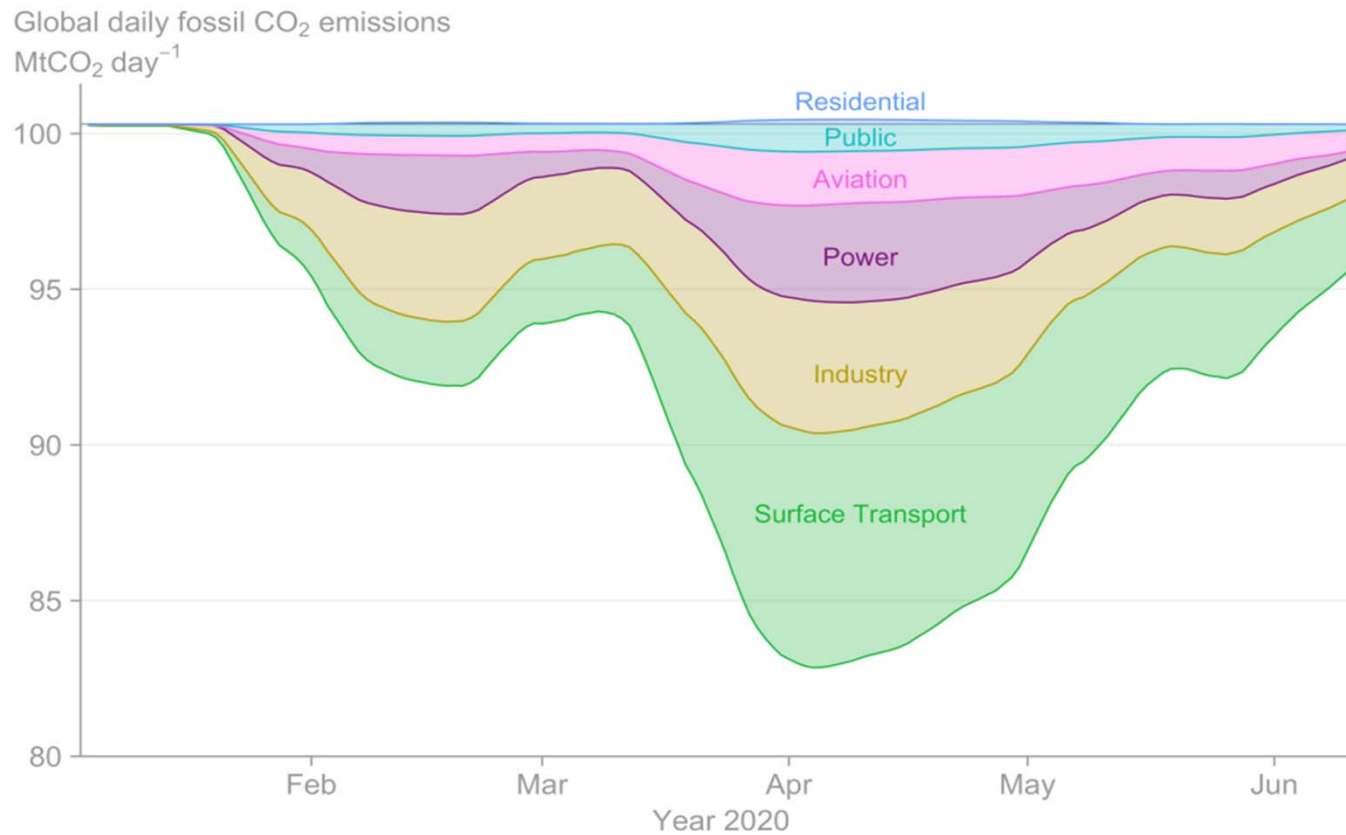
Air pollution declines in some countries

Nitrogen dioxide over India



<https://www.abc.net.au/news/2020-04-09/himalayas-visible-india-pollution/12136856>

Post COVID-19 fossil fuel related CO₂ emissions by sector

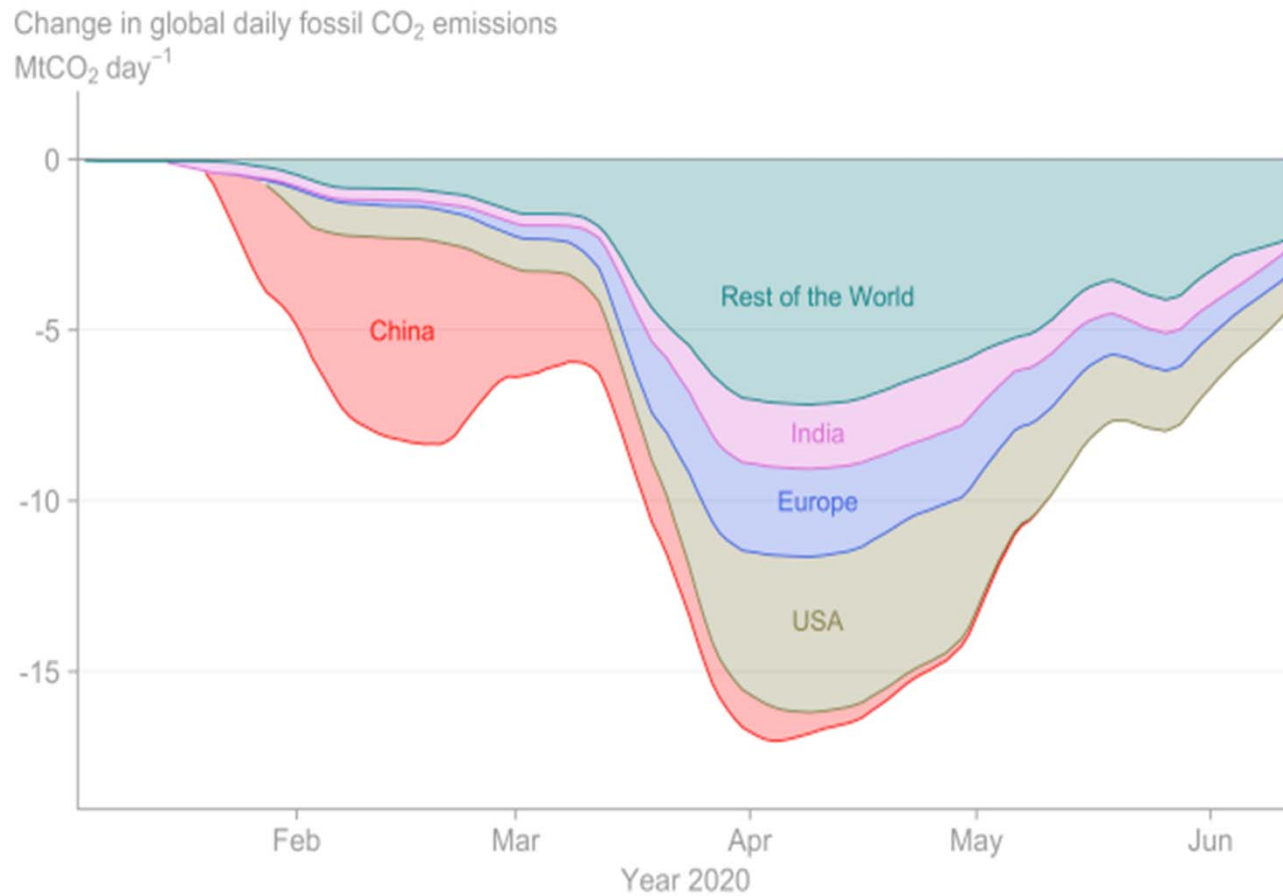


Source: Le Quéré et al. Nature Climate Change (2020); Global Carbon Project

Figure: @Jones_MattW



Post COVID-19 fossil fuel related CO₂ emissions by region



Source: Le Quéré et al. Nature Climate Change (2020); Global Carbon Project

Figure: @Jones_MattW



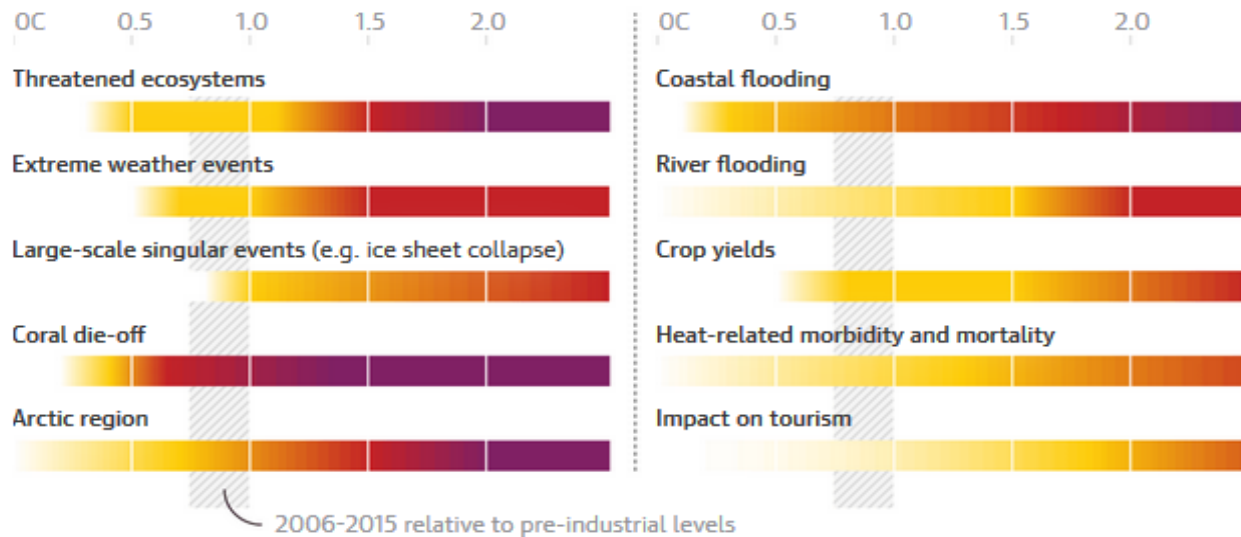
Growing risks from Climate Change IPCC 1.5°C report 8 October 2018

Rising temperatures, rising risks

Key to impacts and risks



Global mean surface temperature change relative to pre-industrial levels, C



Guardian graphic. Source: IPCC Special Report on Global Warming of 1.5C

WHO 'Manifesto for a healthy, green recovery'

May 2020



- **Prescriptions for a healthy, green recovery**

- 1) Protect and preserve the source of human health: nature.
- 2) Invest in essential services, from water and sanitation to clean energy in healthcare facilities.
- 3) Ensure a quick healthy energy transition.
- 4) Promote healthy, sustainable food systems.
- 5) Build healthy, liveable cities.
- 6) Stop using taxpayers money to fund pollution.

Nature – based solutions --some examples



Bauch, Birkenbach, Pattanayak and Sills PNAS 2014

Forest conservation reduces disease risks in the Brazilian Amazon

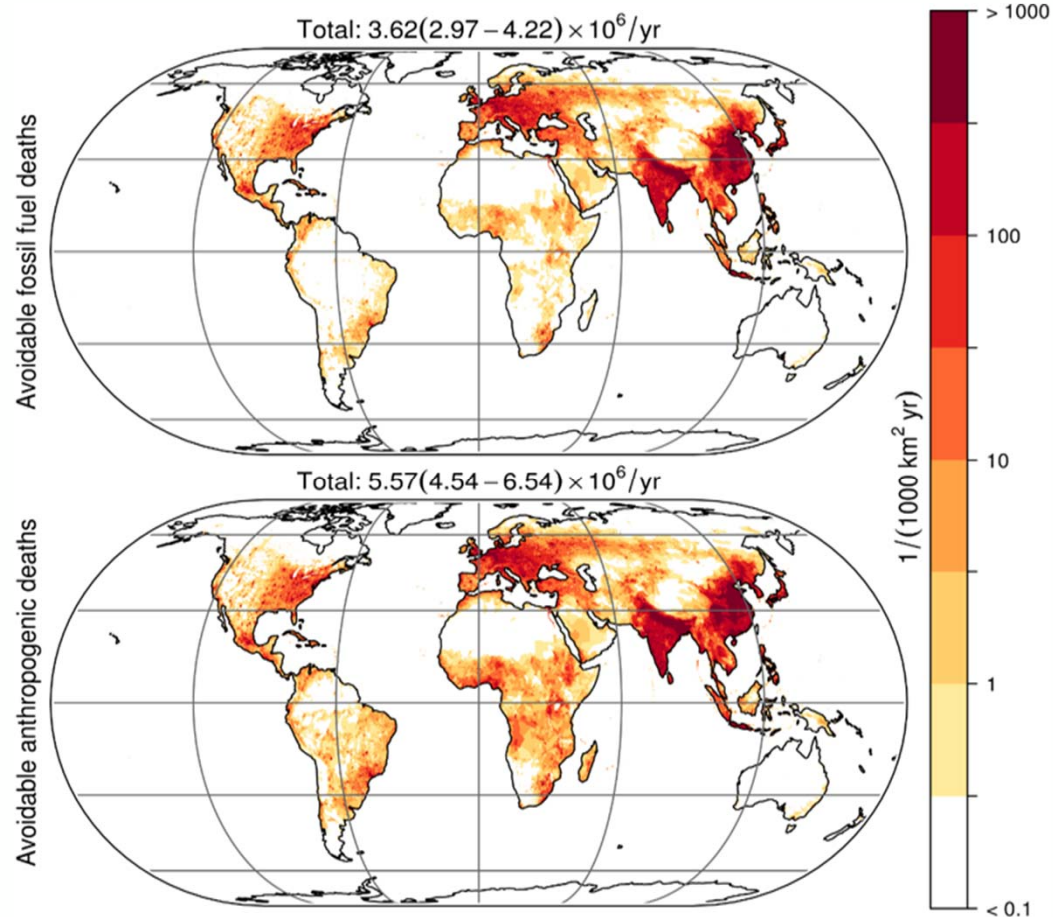
- Decreased Malaria transmission
- Reduced air pollution and fewer Acute Respiratory Infections (ARI)
- Cleaner water--- Less diarrhoeal disease



Restoring ecosystems regulates freshwater quantity and quality and provides flood protection (wetlands and mangroves)



Health co-benefits of decarbonizing the world economy-millions of deaths averted annually (Lelieveld, Klingmüller Pozzer, Burnett, Haines, Ramanathan PNAS 2019)



What could cities do to adapt to and mitigate climate change ?

**Accessible
efficient public
transport and
active travel**



**Universal
access to
clean low
carbon energy**



**Safe access to
green spaces
and ecosystem
strategies for
resilience**



**Housing
Improvements
Water and
Sanitation**



The EAT-Lancet Commission - planetary health diet and targets for sustainable food production that can prevent 11 million premature adult deaths per year by 2050.

THE LANCET

January 2019

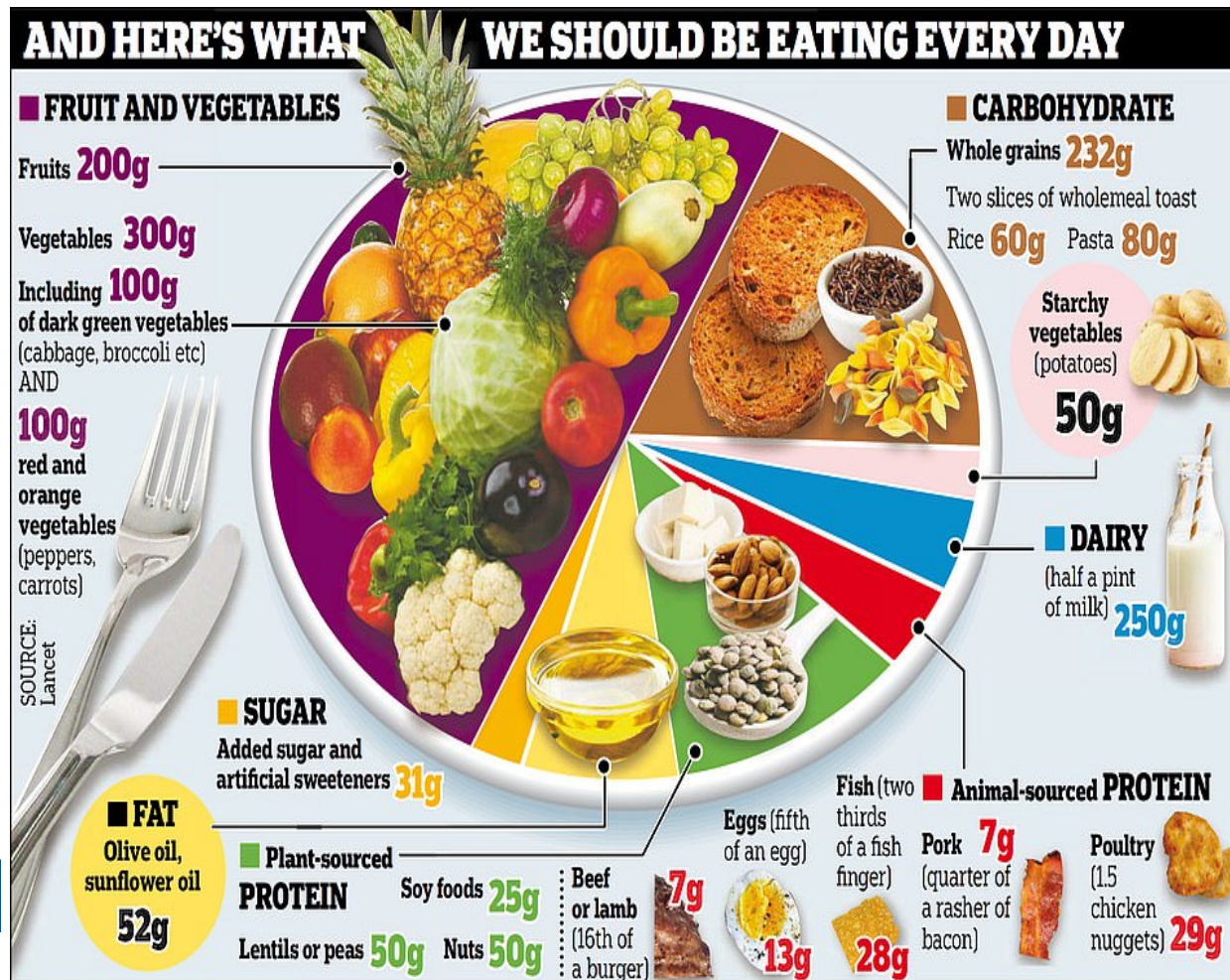
www.thelancet.com

Food in the Anthropocene: the EAT-Lancet Commission on healthy diets from sustainable food systems



"Food in the Anthropocene represents one of the greatest health and environmental challenges of the 21st century."

A Commission by The Lancet



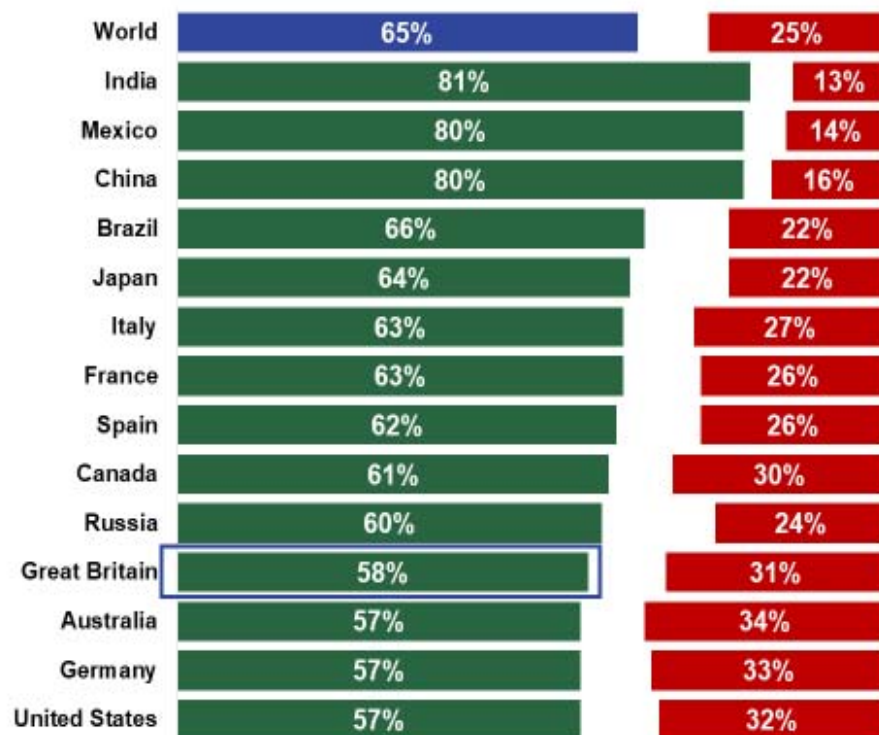
Support for a 'climate friendly' recovery

Support for a 'green' economic recovery from Covid-19

Country data

Q. To what extent do you agree or disagree with the following:

In the economic recovery after Covid-19, it's important that government actions prioritize climate change



■ Strongly agree/tend to agree ■ Tend to disagree/strongly disagree

Ipsos MORI



Base: 28,039 online adults aged 16-74; Fieldwork dates: Friday 17 to Sunday 19 April.

6 © Ipsos | Earth Day GB 2020 | April 2020 | Version 1 | Public



Ways to promote a green, healthy and just recovery

(Guerriero, Haines, Pagano. Nature Sustainability 2020).

1. **Removing subsidies that are harmful for health and climate and helping renewables to remain economically competitive, particularly when oil prices are low.**
 - **Fossil fuel subsidies** ~US\$400 billion annually worldwide, exceeding subsidies for renewables
 - **Clean energy prices are competitive:** auction price for solar photovoltaic system – USD 0.048/kWh is lower than the marginal operating cost of existing coal-fired plants
 - **Setting prices at fully efficient levels** would lower global CO2 emissions by ~ 28% and fossil fuel air pollution deaths by ~46% (IMF estimates)
 - **Avoid health and environmental damaging bailouts** (aviation, oil, automotive industry e.g. Norway has delayed oil & gas industry taxes)

Ways to promote a green, healthy and just recovery.

2. Recapitalizing companies not only according to economic criteria, but also on the basis of environmental and health criteria.

In this first phase of economic recession there has been a massive liquidity injection to firms whose cash flow has declined.

Liquidity keeps firms alive in the short term but can aggravate their solvency problem.

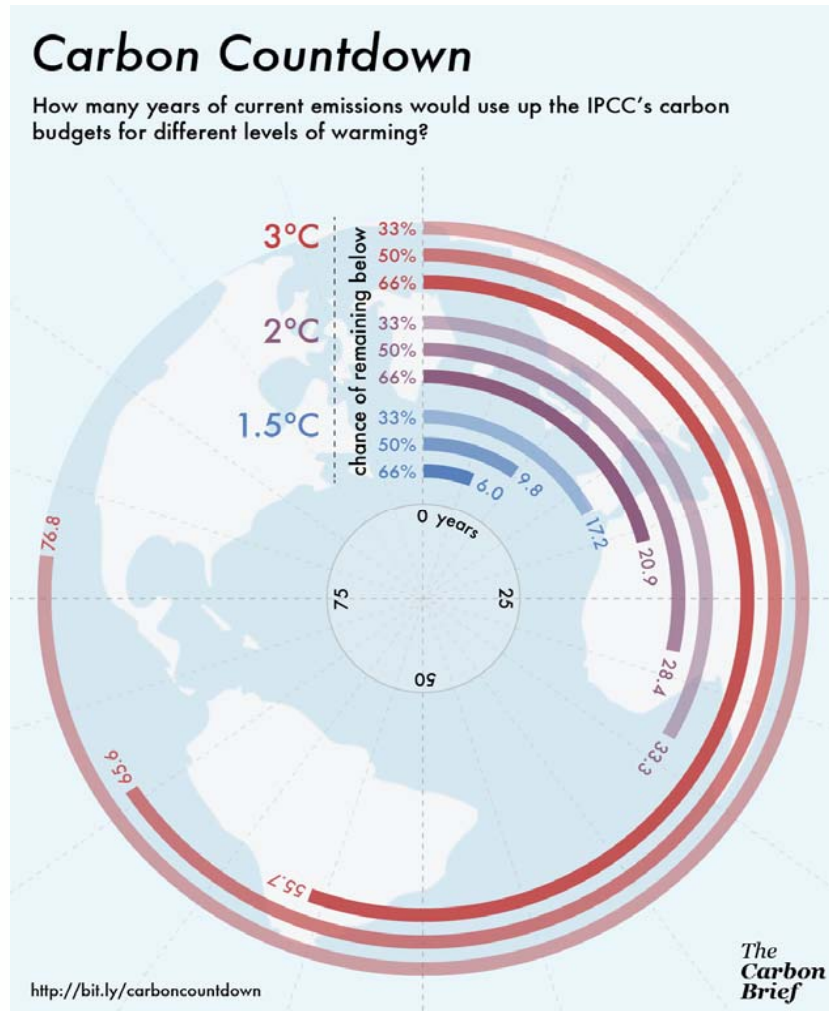
4% of G20 rescue packages have potential to reduce GHG emissions('green'), 4% are 'brown' and likely to increase net GHG emissions beyond the base case, and 92% are 'colourless'

Hepburn C et al Oxford Review of Economic Policy 36(S1)

In the medium term firms will need an equity injection- this funding should be targeted using a mix of economic, environmental and health criteria



The need for urgent action



Over 40 million health professionals urge G20 leaders to put public health at the core of Covid-19 recovery

May 25, 2020

This letter is supported and promoted by the Global Climate and Health Alliance, Every Breath Matters, and the World Health Organization in service of the global medical and health community.



COP 26 Glasgow November 2021



2020 Global Conference on Health & Climate Change

14 & 15 November 2020
Glasgow Caledonian University

