# Climate Change Mitigation Policies & Population Health

Minimizing trade-offs and maximizing co-benefits

#### Dr Pauline F.D. Scheelbeek

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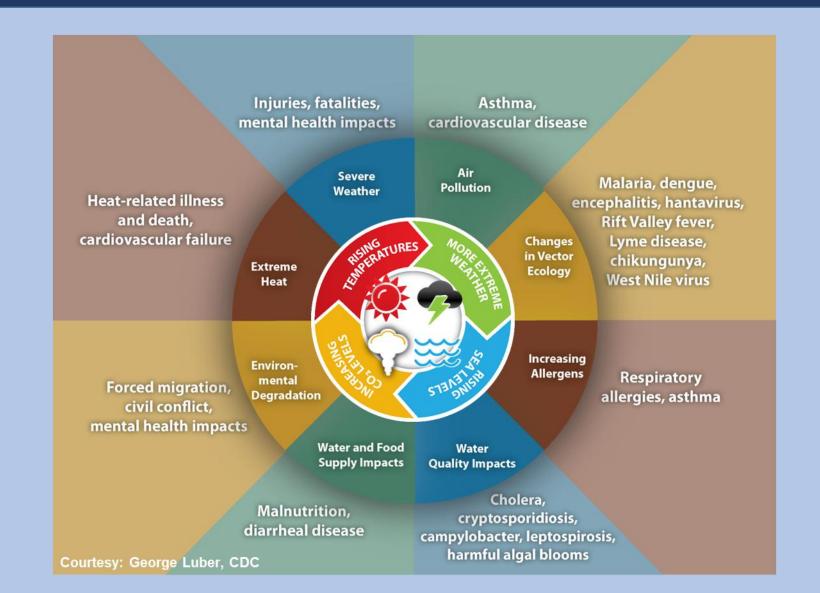


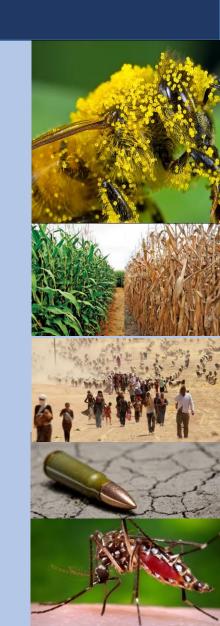




## Challenges: major impact pathways

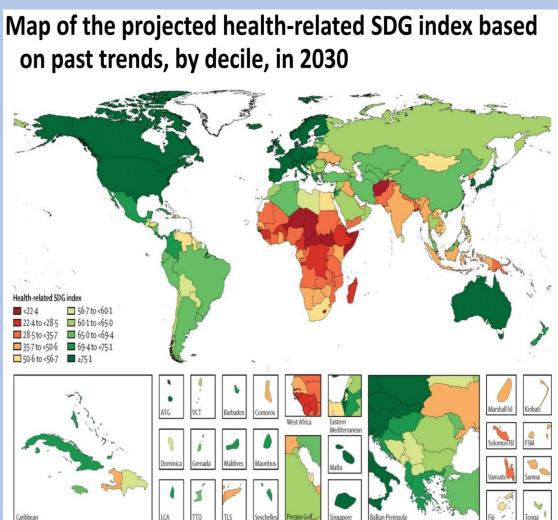






### Health throughout SDGs





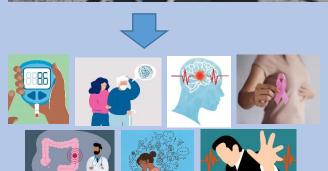
## Evidence: pathways to impacts (co-benefits)

Jarrett et al 2012 - Lancet



WHO Regional Office for Europe, 2016





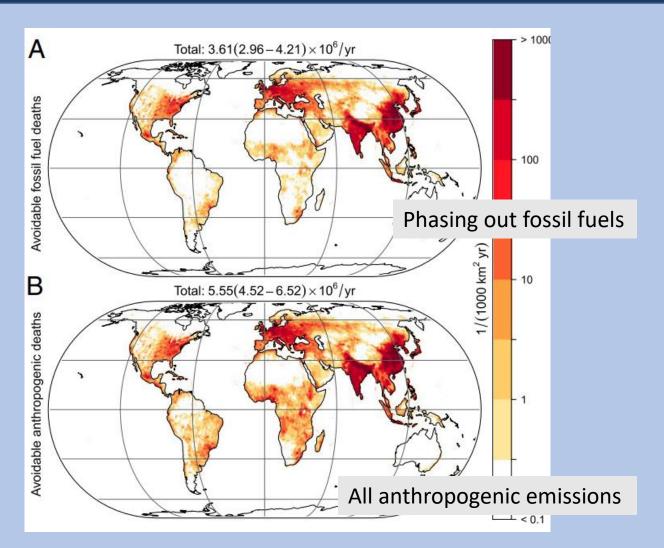








# Evidence: pathways to impacts (energy)









12,500 fewer DALY per 1M population



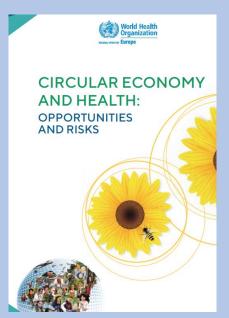
0·1–0·2 MT CO2-equivalent

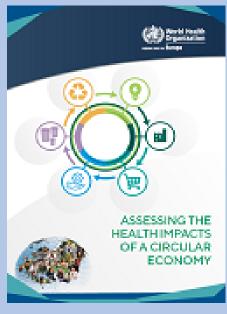


Wilkinson et al 2009 - Lancet

Lelieveld et al 2019 - PNAS

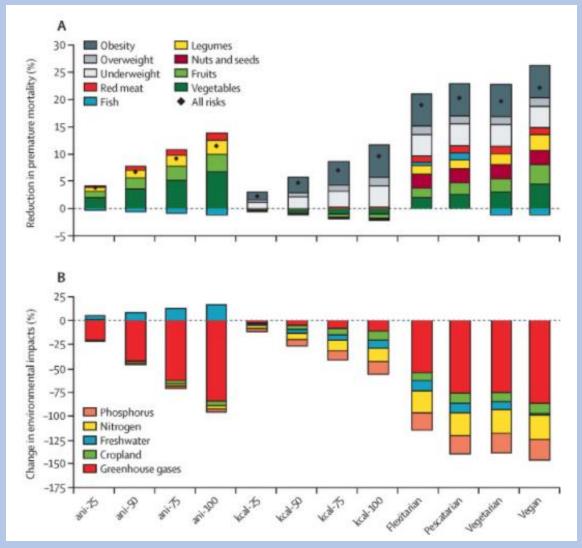
## Evidence: pathways to impacts (food & waste)





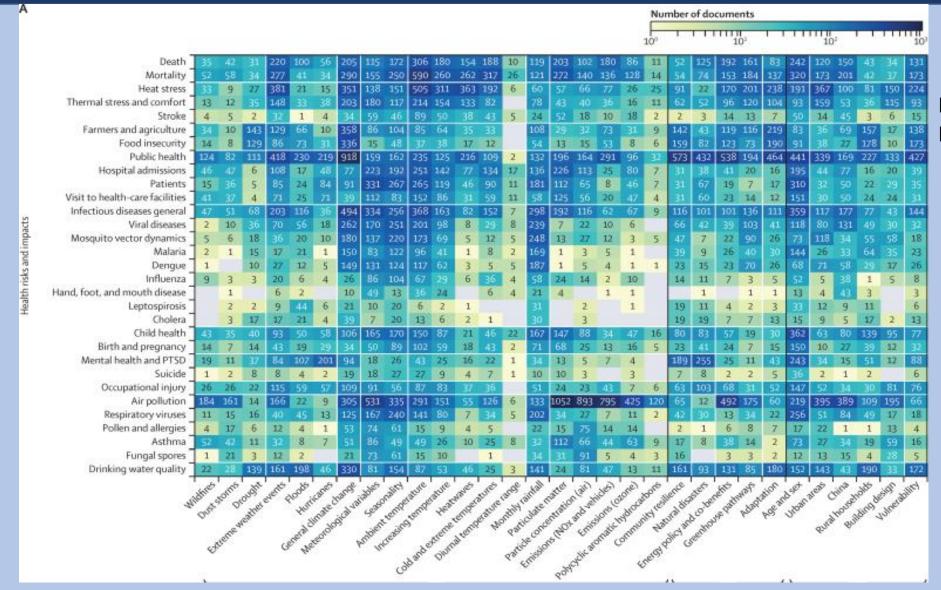
"A key [...] conclusion [...] is [...]that the transition to a circular economy could provide a major opportunity to yield substantial health benefits that will contribute to achieving the SDGs.

Nevertheless, the transition also carries risks of adverse unintended health effects, for example, in processes related to hazardous materials."



Springmann et al 2018 - Lancet

#### Lack of evidence...



Berrang-Ford *et al* 2021 Lancet Planetary Health

### Opportunities: Supporting Policies





fresh air, clean water, healthy soil and biodiversity



renovated, energy efficient buildings



healthy and affordable food



more public transport



cleaner energy and cutting-edge clean technological innovation



longer lasting products that can be repaired, recycled and re-used



future-proof jobs and skills training for the transition



globally competitive and resilient industry

#### Opportunities: Supporting Policies – Air pollution



# National Air Pollution Control Programme Report

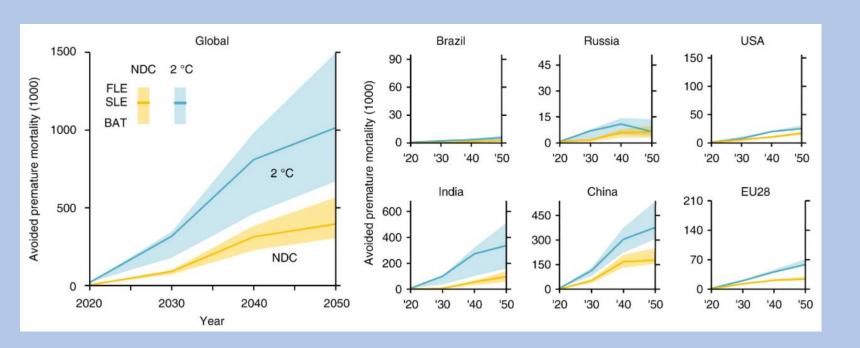
Update 2021

Summary of public consultation submissions
March 2021

#### **EU Member States**

- National air pollution control programme (NAPCP) - April 2019.
- Policies and measures (PaMs) relevant for fulfilling their commitments to reduce emissions
- 2020-2029 and 2030 onwards

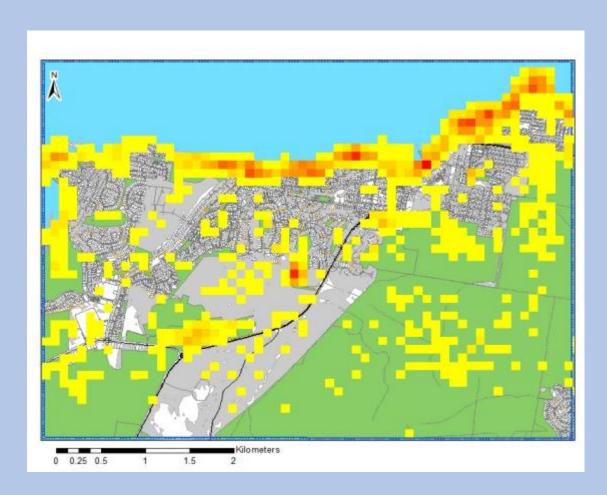
#### Opportunities: Supporting Policies – SLCPs



Vandyck et al 2018, Nature Communications

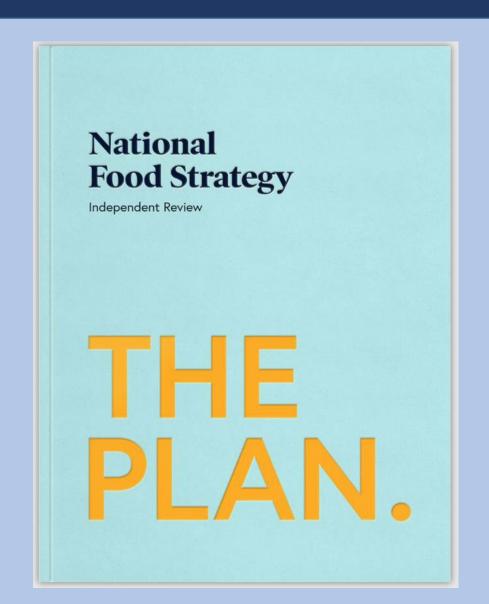


#### Opportunities: Supporting Policies – Cities





### Opportunities: Supporting Policies – Food Systems





The government has committed to producing a white paper and proposals for future laws in response within the next six months, although the early response from UK prime minister Boris Johnson has been "noncommittal" to many of the NFS proposals, according to the Guardian.

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