

# The European Commission's science and knowledge service

## Joint Research Centre



# Air quality co-benefits of the Paris Agreement:

## Two birds, one stone?

**Toon Vandyck**

8<sup>th</sup> AWEEE

21-06-2018

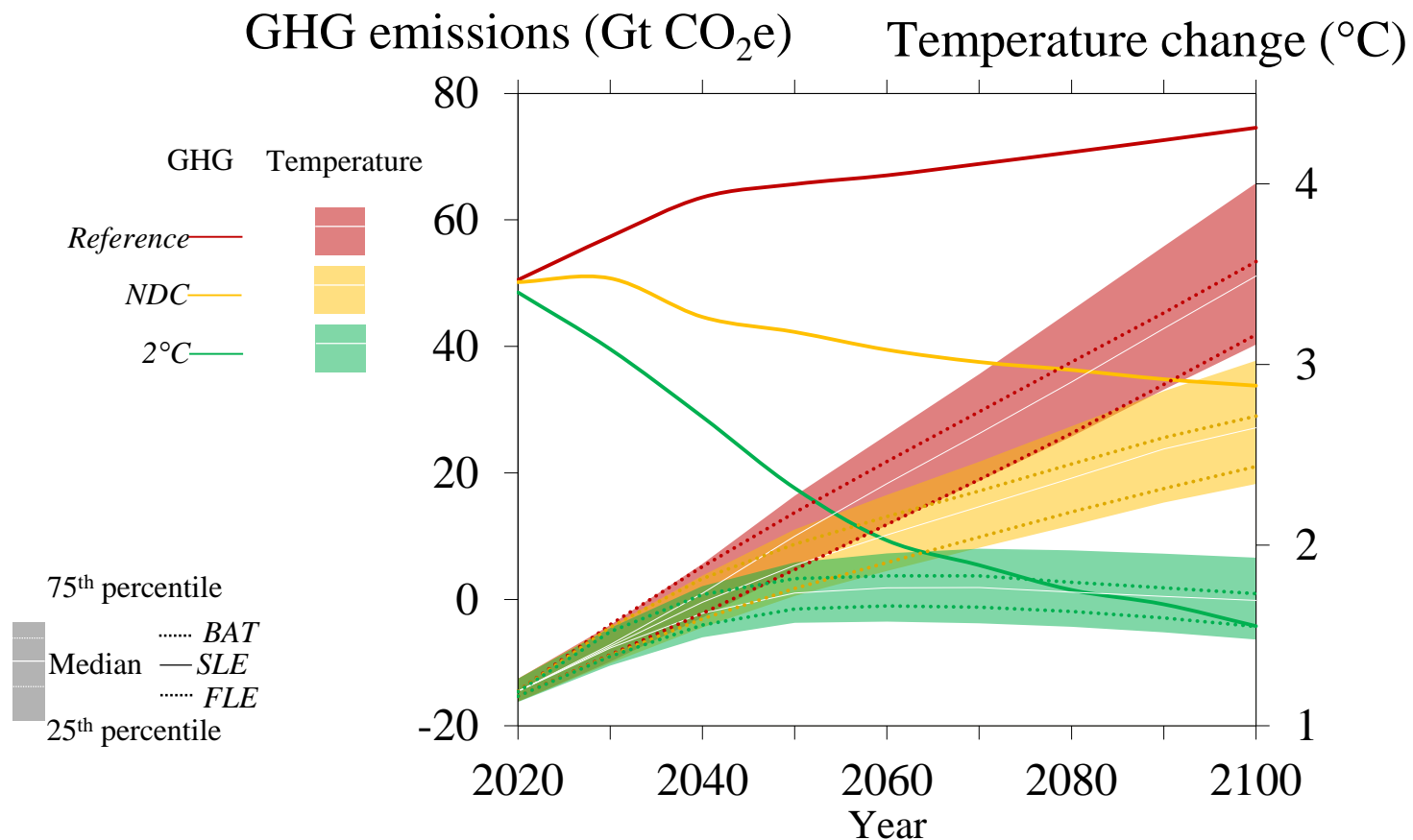
# Climate policy in a broader sustainability context



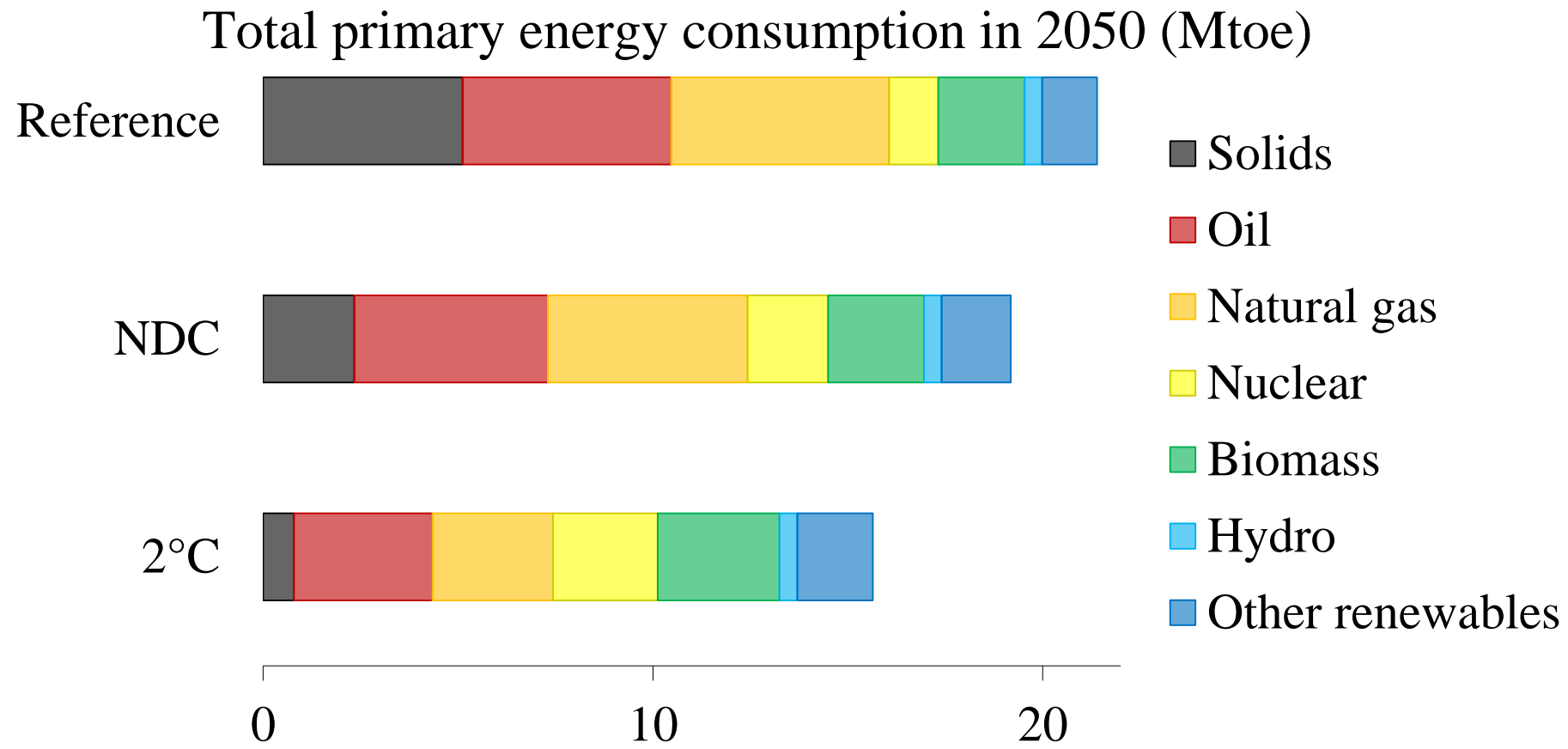
# Climate policy in a broader sustainability context



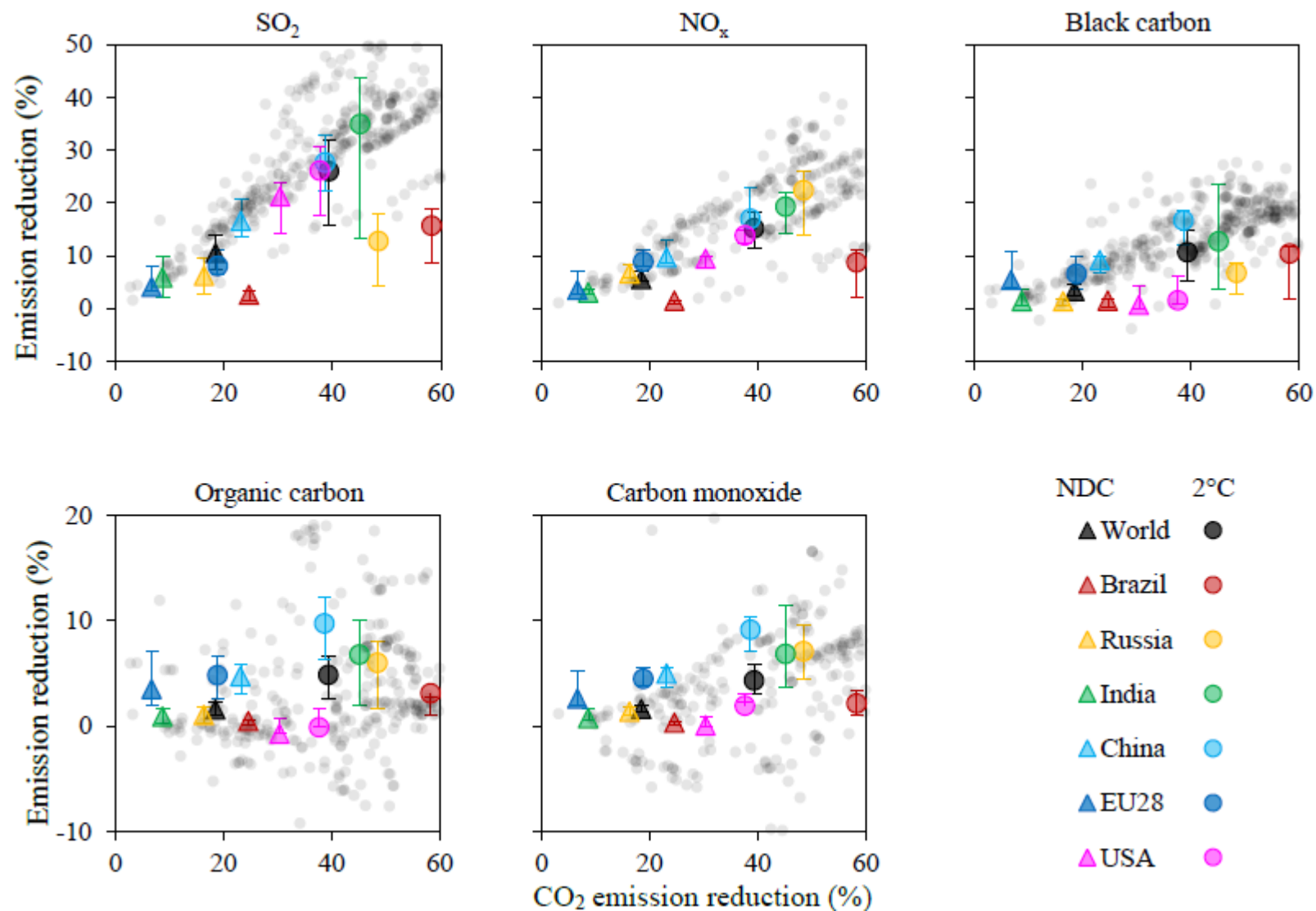
# Climate policy pathways under the Paris Agreement



# Energy system transformation

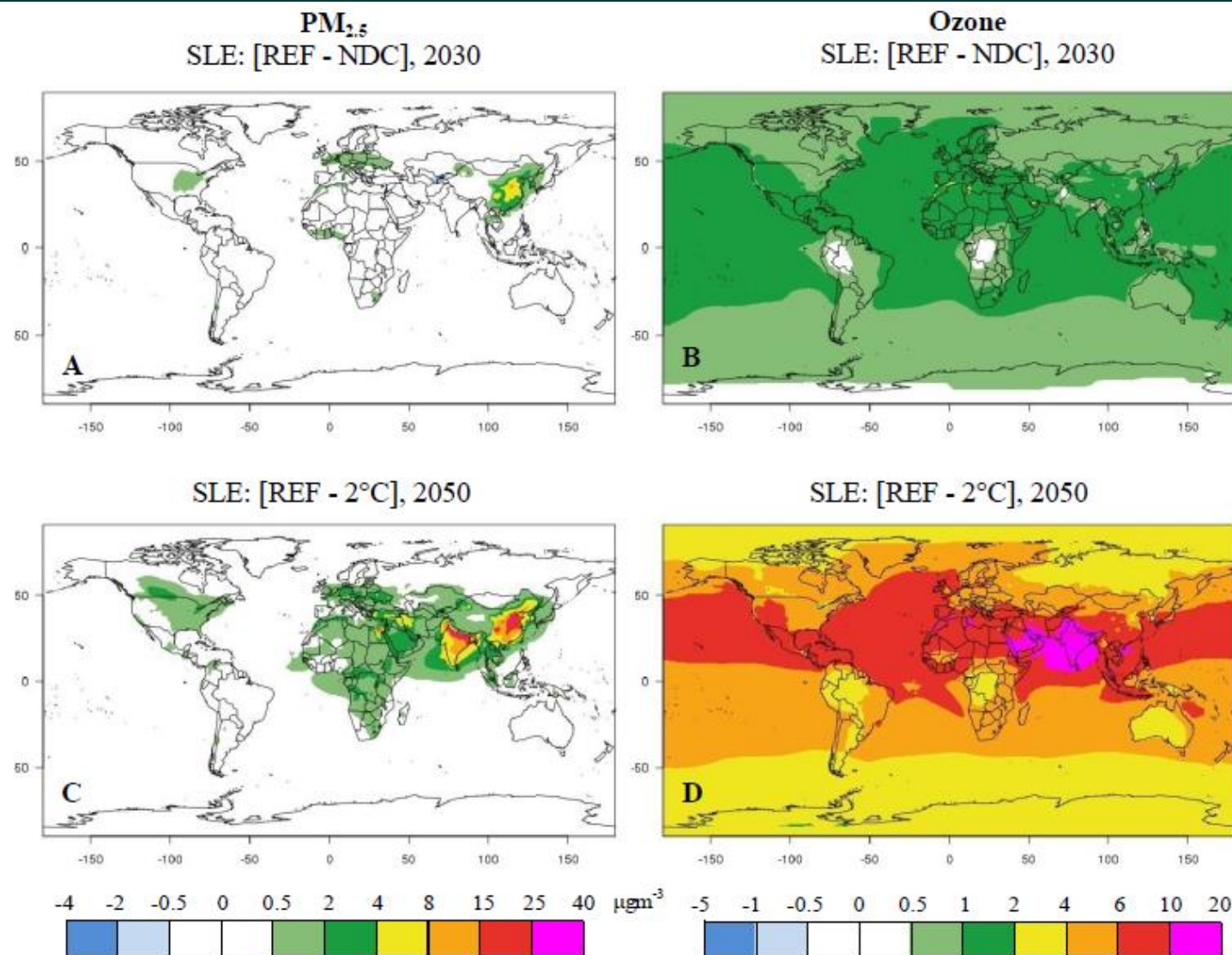


# Does climate policy improve air quality? (I)



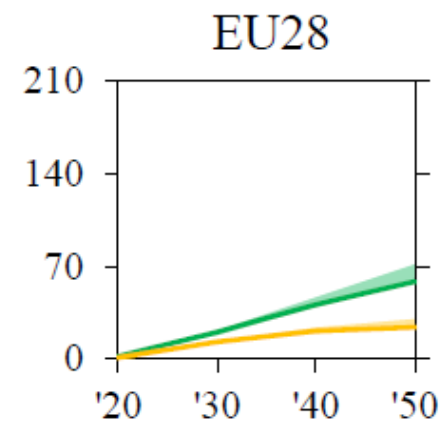
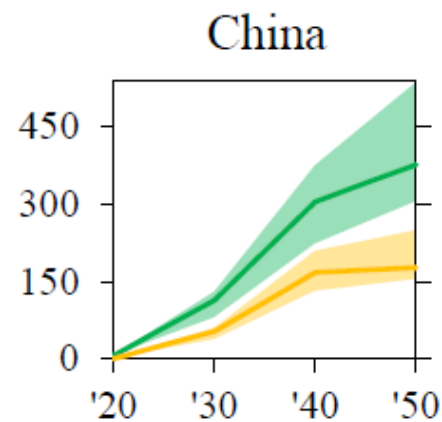
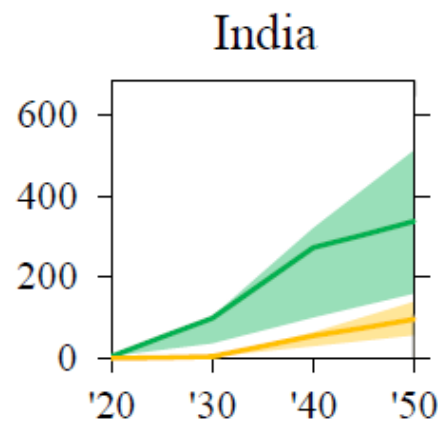
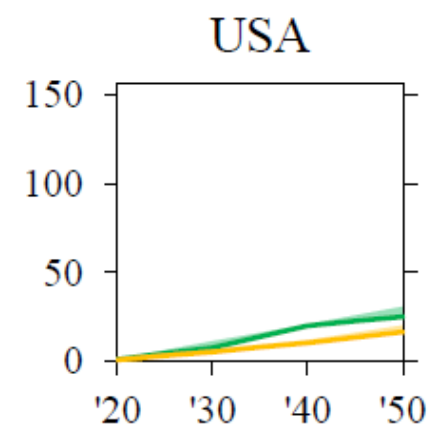
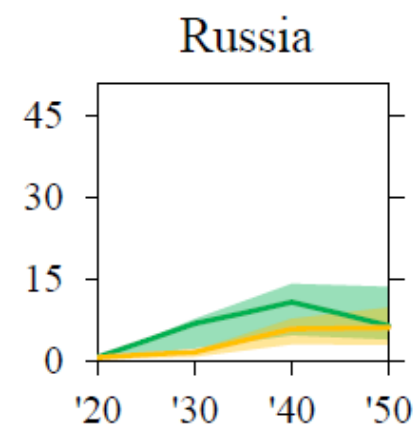
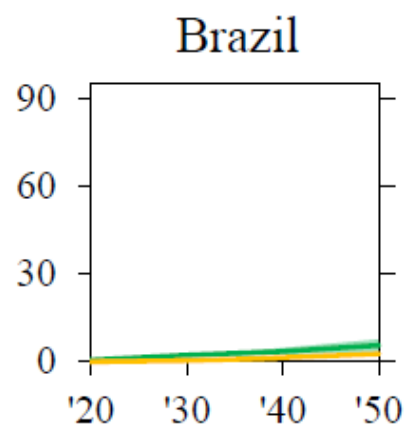
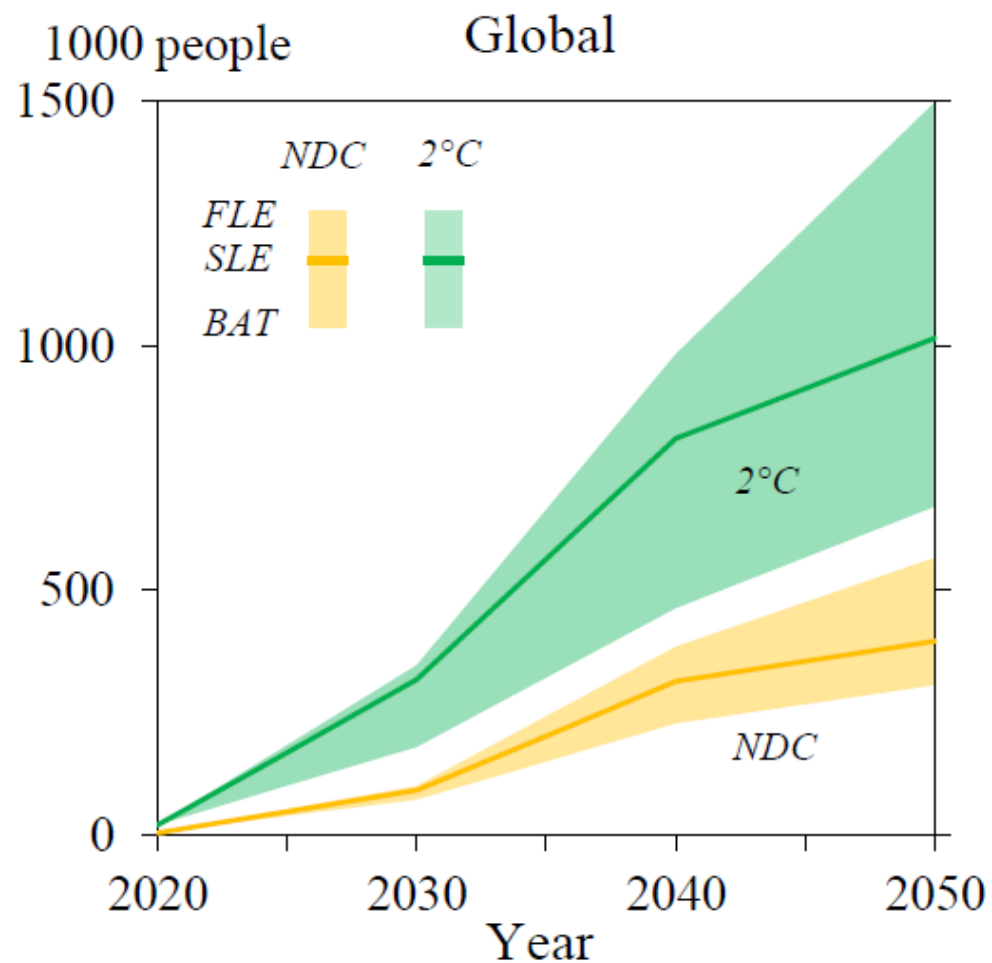


# Does climate policy improve air quality? (II)

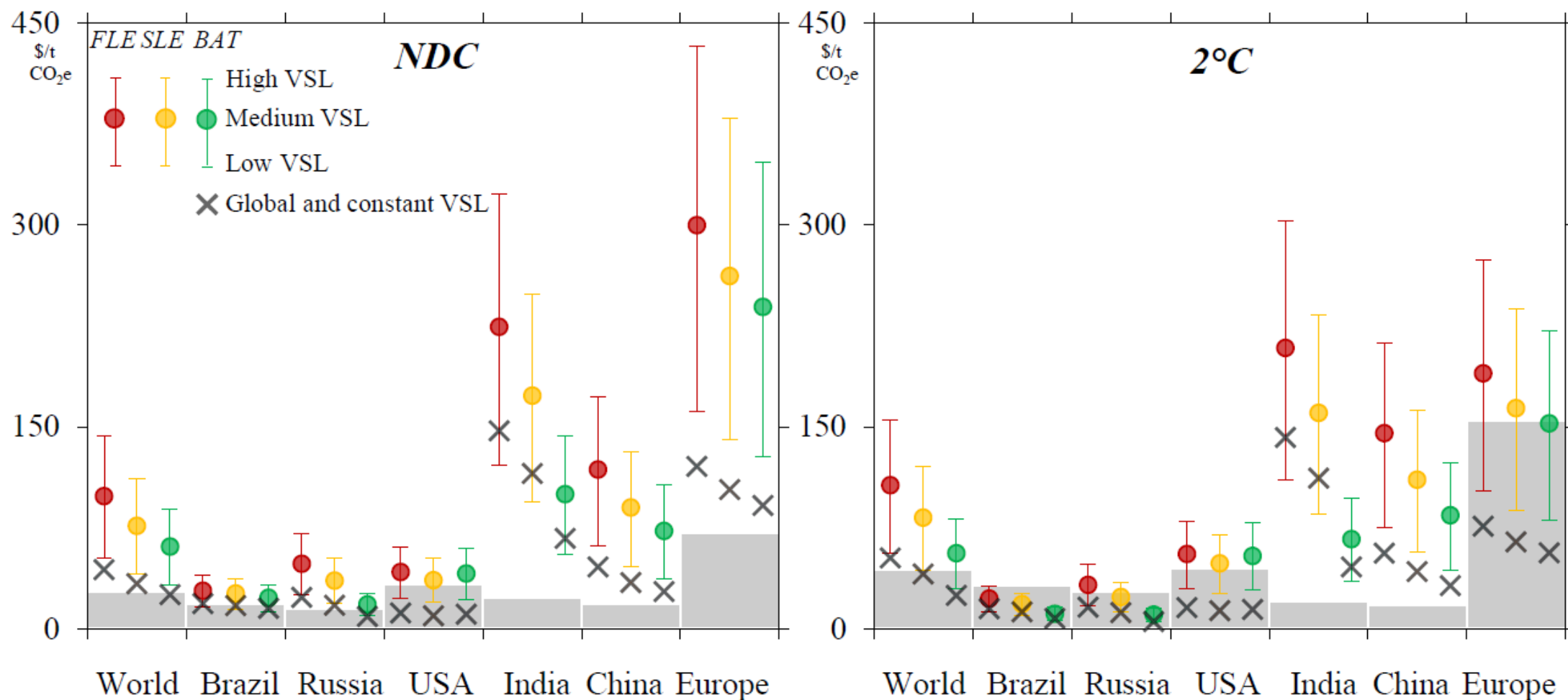




# Human health: avoided premature mortality



# Economics: Cost of mitigation vs air quality co-benefits



# Conclusion and caveats

Broad-based global **climate** action brings substantial **air** quality co-benefits

An **integrated policy perspective** can maximise gains for planet, health and economy

This study looks at **mitigation cost** and **air quality co-benefits**,  
and ignores direct benefits of avoided climate impacts and costs of air quality regulation

Future work could provide better insight to policymakers on the sectors and mitigation actions with the largest 'double dividend' in the context of a long-term climate strategy

# Thank you

## Any questions?

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