

The German Energy Turn: Implications for South Asia

- The use of biomass
- Energy demand and building insulation
- Road traffic: Diesel and BC



What we are aiming at:

- A greenhouse neutral Germany by 2050
- not justifiable to grow crops as biomass for energy production
- reduce energy demand - increase efficiency
- reduce transport demand; introduce electro mobility
- improve waste management
- change of diet; less animal farming



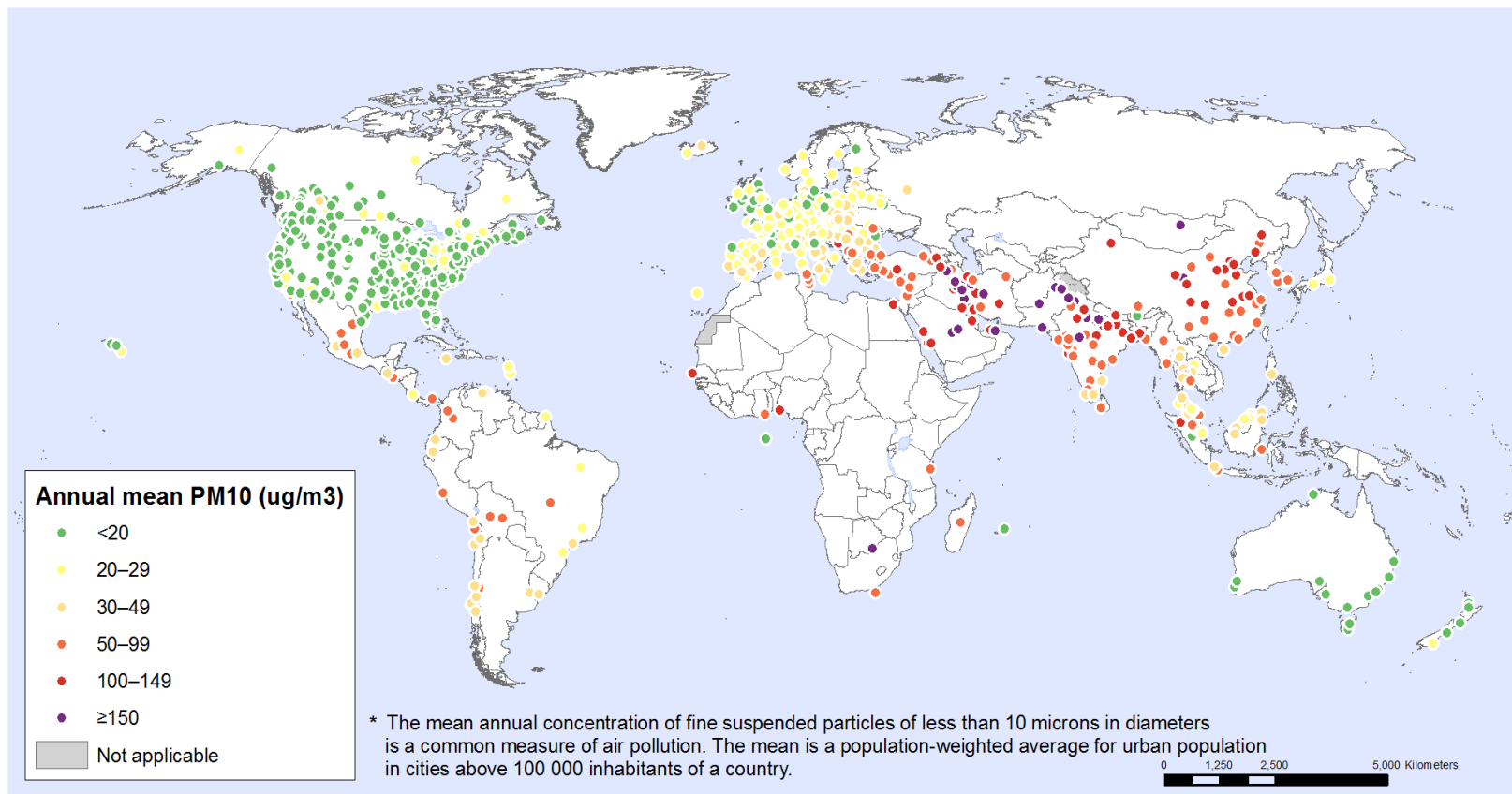
What is the gain for SLCPs:

Changes in Germany may influence worldwide markets –
well before 2050 !

- decreasing demand for import of biomass:
reduced **CH₄** from land use change
- expertise on building insulation:
transfer of expertise to reduce **BC**-emissions
- clean transport:
BC-reduced vehicles influencing worldwide markets and
thereby sulphur content in fuels
- integrative waste and wastewater management:
knowledge transfer to minimize **CH₄**-emissions
(and the demand for resources)

Particulates are also a health problem!

Exposure to particulate matter with an aerodynamic diameter of 10 µm or less (PM10) in 1100 urban areas*, 2003–2010



The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement.

Data Source: World Health Organization
Map Production: Public Health Information and Geographic Information Systems (GIS)
World Health Organization



© WHO 2012. All rights reserved.

Biofuels cause land degradation:

<http://earthenginepartners.appspot.com/science-2013-global-forest>



**Thank you for open
eyes and ears!**

marion.wichmann-fiebig@uba.de

www.umweltbundesamt.de