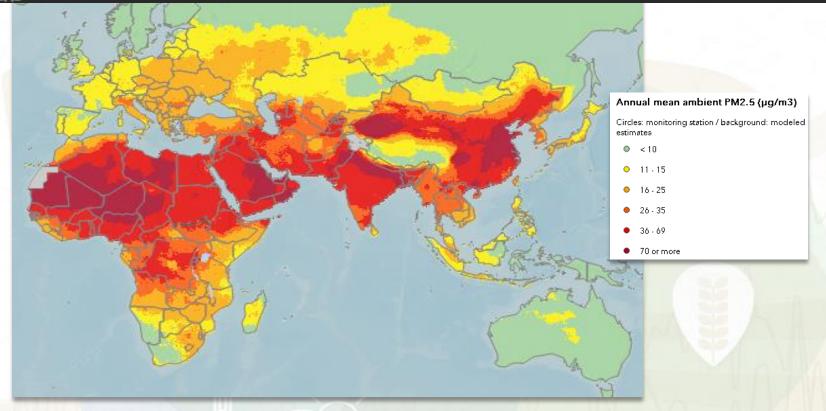
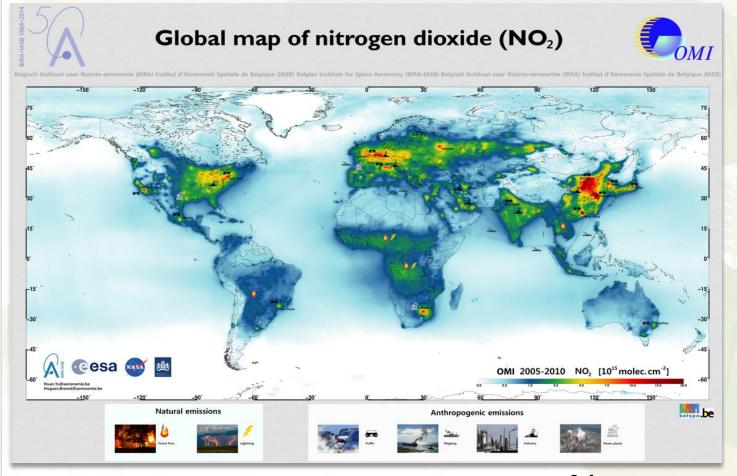
FROM CLIMATE INFORMATION TO CLIMATE SERVICES Stakeholders Meeting, 25 September 2017





- 92% of world population lives in places where air pollution exceeds safe limits, WHO says
- Air pollution: 4th largest threat to human health, leading environmental cause of death

• In Europe, air pollution causes \sim 450,000 premature deaths every year, EEA warns, EEA 2016 : NO₂ impact equivalent to 70,000 premature deaths a year, ground O₃ \sim 17,000 in EU



Long-term EU
objective:
"achieve levels of
air quality that
do not result in
unacceptable
impacts on, and
risks to, human
health and the
environment"

• Cost of air pollution in Europe = 10% of Europe's GDP (\$1.6tn), in Belgium : 4.6% of GDP (\$20bn)

Speakers

Maite Bauwens (BIRA-IASB)



Biogenic Emissions into the Atmosphere in Past and Future Climate over Europe

Michael Gauss (MetNO)



From Air Quality Modelling to Air Quality Policy

An van Nieuwenhuyse (WIV-ISP)



Linking Air Quality to Public Health

DISCUSSION

- Do we need measurements of biogenic VOC emissions in urban environments in Belgium? Updated inventories of VOC fluxes?
- What measures should be taken to improve air quality during heat waves?
- Respective benefits from anthropogenic emission reductions and urban vegetation management? Co-benefits for human and ecosystem health?
- High resolution atmospheric models? Ability to reproduce the observations of chemical compounds, contribution of biogenic VOCs to the levels of ozone and PM, predict future evolution
- What is needed from knowledge about health effects to actual measures, what is the price we are ready to pay for a better quality of life?
- How can we improve the science-policy interface, e.g. through updated advise on air quality legislation (short/long-term measures, green scenarios, etc.)