



IAPH World Ports Conference 2015

Clean Port Operation: Challenge and Necessity

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Clean Air in Ports

NABU e.V.

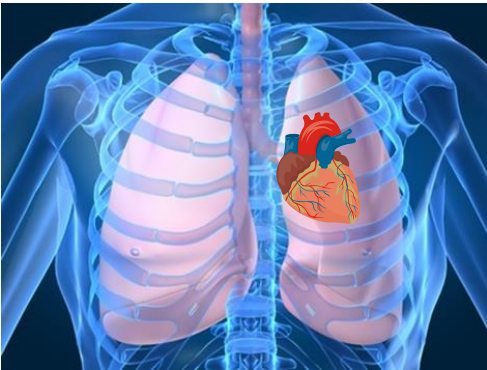
Nature and Biodiversity Conservation Union

- Largest German environmental NGO
- 540 000 members and donaters
- 36 000 volunteers



Why act? Impacts on:

Health



Environment



Climate



Why act? Air Pollution in Europe

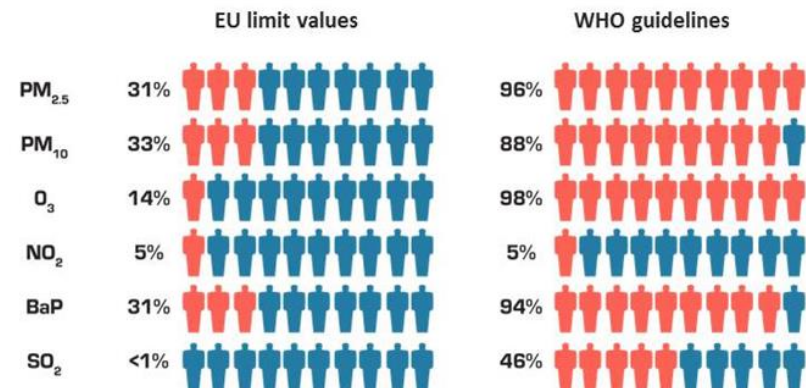
Facts and Figures

European Union:

- 90% of citizens exposed to air pollution
- 420 000 premature death from bad air quality
- 50.000 premature deaths from shipping
- Estimated health costs: € 766 billion

Europeans' exposure to harmful levels of air pollution

EU urban population exposed to harmful levels of air pollution in 2011, according to:



Up to a third of Europeans living in cities are exposed to air pollutant levels exceeding EU air quality standards. And around 90 % of Europeans living in cities are exposed to levels of air pollutants deemed damaging to health by the World Health Organization's more stringent guidelines.

Air Pollution in Ports

Sources in Ports:

Segmentation in Hamburg



Ships



Port Machinery



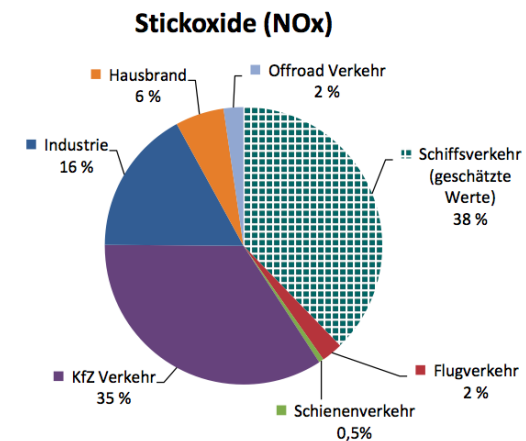
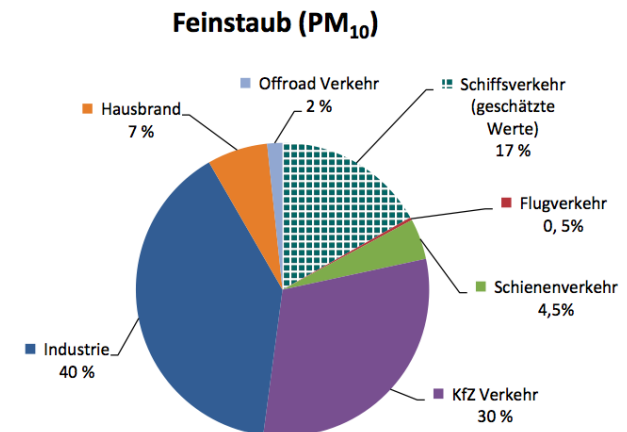
Inland Ships



Trucks / Cars



Locomotives



Possible Measures in Ports

Measures for:

- Ships
- Terminals
- Port Traffic



Action Required

- Stricter IMO regulation
- Adaption of established best practices
- Implementation of cost efficient measures
- Networking / Knowledge exchange





IAPHHAMBURG2015
29th WORLD PORTS CONFERENCE



CLEAN AIR IN PORTS

EU LIFE+ Project „Clean Air“



NABU publication:

**EU LIFE+ Project
“Clean Air in Ports”**

Thank you for your attention

Alexander Porschke

www.nabu.de/ports