



Air pollution and GPP

DUH activities

Peter Feldkamp

Projectmanager Transportation and Air Quality

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Deutsche Umwelthilfe e.V. (DUH) *Environmental Action Germany*

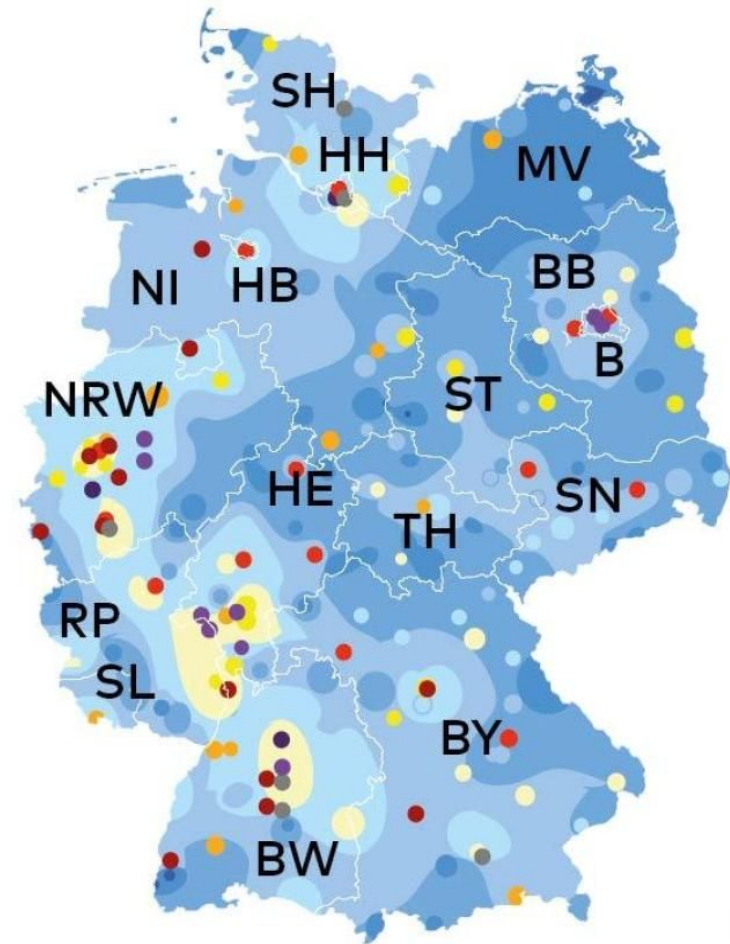
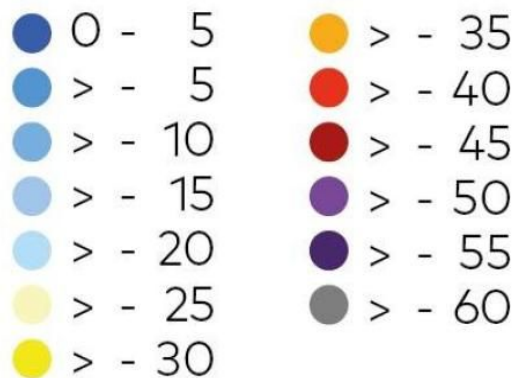
- founded in 1975
- based in Radolfzell (Lake Constance) and Berlin
- around 90 employees (12 in the Department of Transport and Air Quality)



Deutsche Umwelthilfe

Air Pollution (NO₂) in Germany

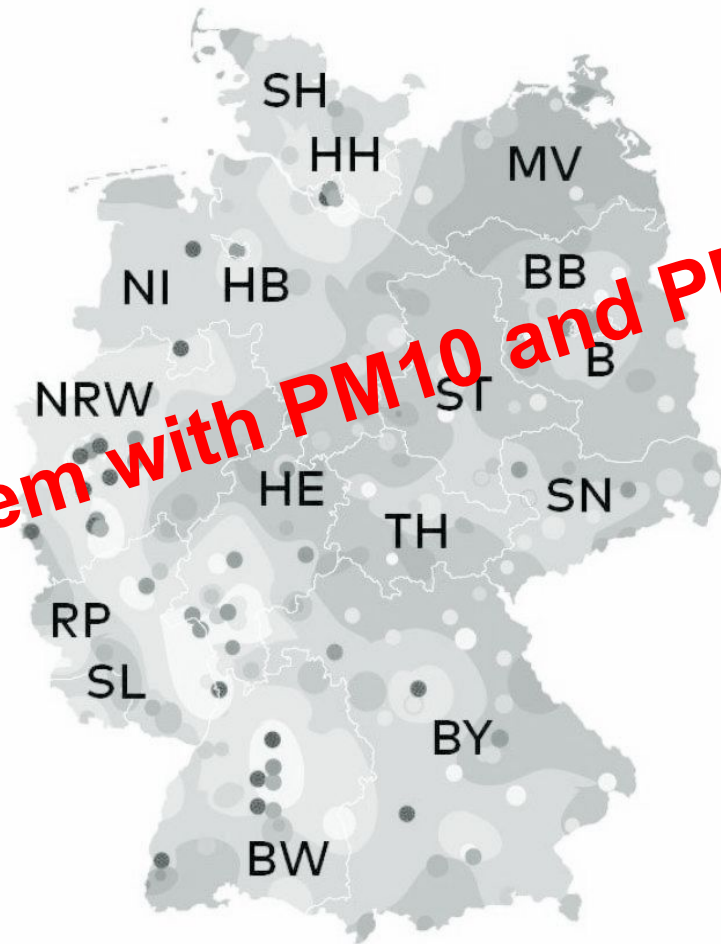
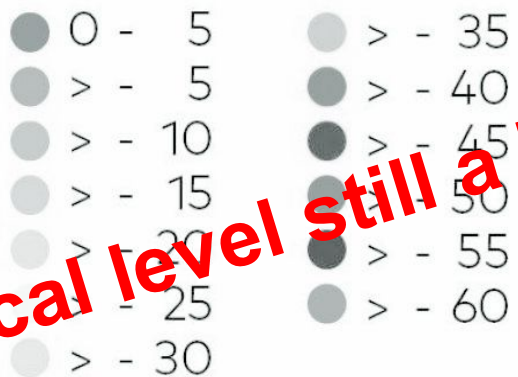
Legend



Quelle: UBA

Air Pollution (NO2) in Germany

Legend



Quelle: UBA

DUH activities on Air pollution

- files lawsuits in 17 cities in Germany
- performs intensive measurements on Diesel-Cars (PEMS)
- files lawsuits against car manufacturers and public administration
- helps cities to find concrete solutions for their AQ-problems (GPP)

“Every european citizen has a right to clean air”

European Court of Justice



EKI - Emission Kontroll Institute

- PEMS - Portable Emission Measurement System



Revocation of type approval



GPP Activities of DUH on Air Pollution

Ecolabel e.g. Blue Angel (Blauer Engel)

- construction machinery / Non Roads

Criteria for GPP with local governments

- construction machinery / Non Roads
- Refit for busses

Influencing Air Quality – Plans on the legal way

- Public fleets
- Taxis
- Busses
- construction machinery / Non Roads









Construction Machinery / Non-Roads

- Important source of exhaust emissions
 - longlasting / old
 - not efficient / high consumption (CO₂ – relevant)
 - excepted from certain air quality - regulations
 - health risks of employees on construction site

EcoLabels for NonRoads / Senat of Berlin

Plakette	Kriterien
Baumaschine Motorstandard III  grau	<p>Maschinen und Geräte ohne zertifizierten Partikelfilter, deren Motoren folgende Stufen gemäß der Richtlinie 97/68/EG einhalten:</p> <ul style="list-style-type: none"> ■ Motoren von 19 bis unter 37 kW: Stufe IIIA ■ Motoren ab 37 kW: Stufe IIIB <p>Die Differenzierung nach "A" oder "B" und die Motorleistung werden in die Plakette eingetragen.</p>
Baumaschine Motorstandard IV  weißgrün	<p>Maschinen und Geräte, die nicht mit einem zertifizierten Partikelminderungssystem ausgestattet sind und deren Motoren die Stufe IV gemäß der Richtlinie 97/68/EG einhalten.</p>
Baumaschine mit Partikelfilter  dunkelgrün	<p>Maschinen und Geräte, die unabhängig vom Abgasstandard und Motorleistung dauerhaft mit einem Partikelfilter aus- oder nachgerüstet sind.</p>
Baumaschine Motor-Standard V  blau	<p>Maschinen und Geräte, deren Motoren die zukünftige Emissionsstufe V einhalten</p>

DUH and Berlin Senat developed a set of criteria for construction machinery in public projects

obligatory filter systems for

- PM 2.5 & PM 10
- NOx (SCRT-catalysts)



City-Busses

- **Important source of exhaust emissions**
 - Operates in dense city-centers
 - productive hours way more than other vehicles
 - bound to stop'n'go
- **Refit options are available on the aftermarket**



Demands for Air Quality Plans

Existing-Fleet

- Refit with particle - filter (EURO4 & EURO5)
- Refit with SCRT (EURO4 & EURO5)
- Replace EURO 3 (and older)

New Purchases

- Low or Zero Emission (Gas, Good Euro 6) with exhaust after - treatments

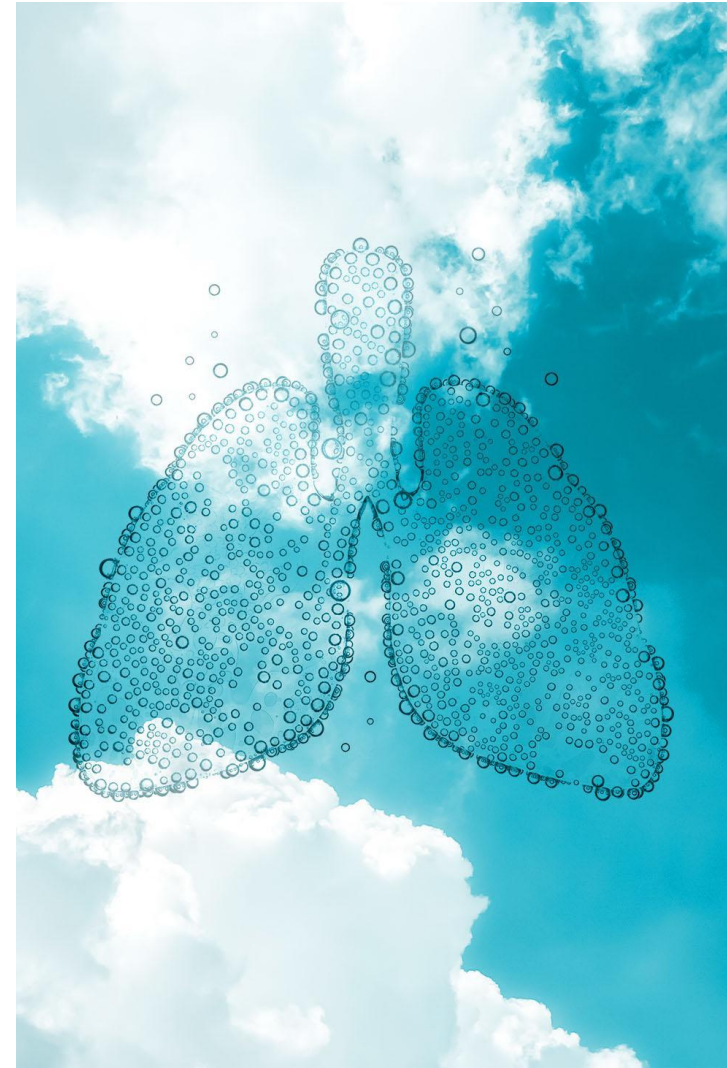


Success

- Facing the pressure of the Air Quality - Lawsuits more and more cities consider a complete refit of their fleets
- The biggest Bus-Fleet in Germany (Berlin) will be completely on Euro VI-Standard or better by January 2018
- Public fleets besides busses get more and more attention

What we learned

- air pollution is significantly influenced by public procurement
- sometimes you need unexpected allies like the Labour-Unions
- building strong and trustful relationships with administrations opens doors
- forcing authorities via legal cases can bring the pressure it needs
“Priority y obligation”



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Peter Feldkamp

THANK YOU!

