





### Air pollution and GPP **DUH** activities

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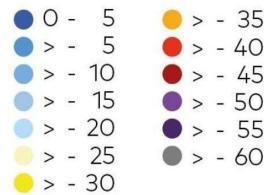
# Deutsche Umwelthilfe e.V. (DUH) Environmental Action Germany

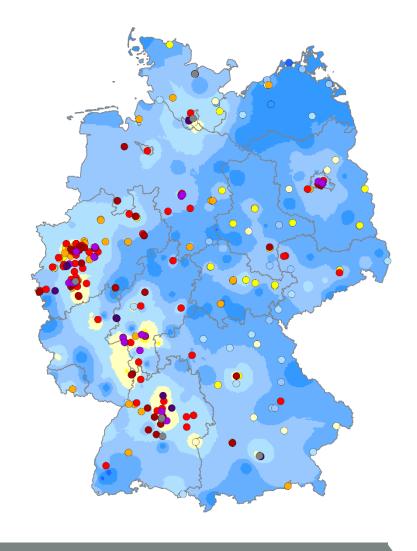
- founded in 1975
- based in Radolfzell (Lake Constance) and Berlin
- around 90 employees (12 in the Department of Transport and Air Quality)



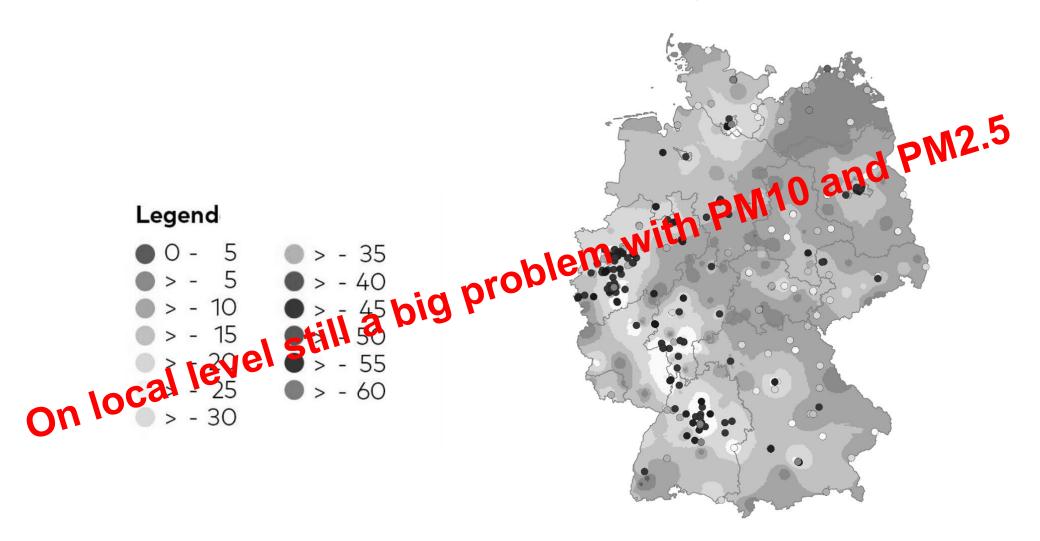
## Air Pollution (NO2) in Germany

#### Legend





# Air Pollution (NO2) in Germany



## **DUH** activities on Air pollution

- files lawsuits in 28 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 AQproblems (GPP)

### "Every european citizen has a right to clean air"

## **European Court of Justice**





### **EKI - Emission Kontroll Institute**

## - PEMS - Portable Emission Measurement System



### **GPP Activities of DUH on Air Pollution**

#### **Ecolabel e.g. Blue Angel (Blauer Engel)**

- construction machinery (soot-free due to DPF)
- replacement catalysts
- stoves and fireplaces

#### Criteria for GPP with local authorities

- construction machinery / Non Roads
- retrofit for busses / air conditioning in busses

#### Influencing Air Quality Plans through statements and legal action

- Public fleets, Taxis, Busses
- construction machinery / Non Roads
  - → Pressure on local governments to procure environmentally friendly

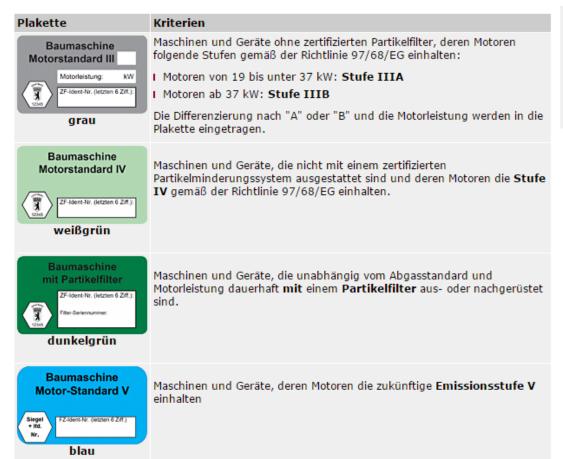




# **Construction Machinery / Non-Roads**

- Important source of exhaust emissions
  - long-lasting / 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**



DUH and Berlin Senate 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 urban areas
- Higher operating time than private vehicles
- bound to stop and go traffic

#### Retrofit options are available on the aftermarket



# **Demands for Air Quality Plans**

#### **Existing-Fleet**

- Retrofit with Diesel Particle Filter and SCR (Euro 4 & Euro 5)
- Replace Euro 3 and older

#### **New Purchases**

- Low or Zero Emission (Gas or Diesel Euro 6) with exhaust aftertreatment

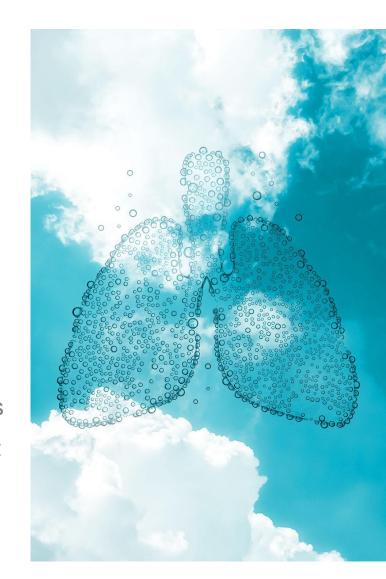


### **Success**

- Facing the pressure of the Air Quality Lawsuits more and more cities consider a complete retrofit of their bus-fleets
- The biggest Bus-Fleet in Germany (Berlin) will be completely on Euro 6 standard or better by January 2018
- Public transport gets more and more attention

### **Future activities on GPP**

- Main focus on technical retrofitting of diesel buses with NOx removal systems
  - In Germany, transport companies are mostly municipal companies
- New project on hand-operated machines for gardening products and services
  - For example leaf blowers and chain saws
  - Mostly noisy, diesel-powered and without proper filter technology



The project **Right to Clean Air** (*LIFE15 GIE/DE/000795*) is co-financed by the **EU LIFE** program of the **EU Commission**.

**Robin Kulpa** 

**THANK YOU!** 

