Bezirksregierung Arnsberg



**Polluter-Group** "Road traffic"

#### **Potential Measures**

- Traffic management, e.g.
  - Forbid thouroughfare for lorries
  - Route concepts for lorries
  - Low-emission zones
  - Optimisation of the traffic flow
  - Parking space management
- Change of the Modal-Split, e.g.
  - Promotion and increase in attractiveness of local public transport
  - Expansion of infrastructure for cyclists and pedestrians
- Use and acquisition of low-emission vehicles for local public transport and municipal vehicle fleet

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#### **Polluter-Group** *"***Industry"**

#### **Potential Measures**

- Check and/or manufacture the state of the art
- Close diffuse sources
- Clean operating routes
- Irrigation Systems
- Tyre Wash
- Transport of bulk materials in closed lorries /covered beds
- Intensive use of sweeping suction machines with fine dust filters
- Surrounding/covering of highly dusty materials
- Intensification of plant monitoring

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Polluter-Group "Small-scale furnaces"

#### **Potential Measures**

- Monitoring of the requirements according to 1. BImSchV with regard to solid fuel-fired combustion plants
- Further measures in contaminated areas are possible via municipal regulations (§ 5 para 1 LImSchG NRW)

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### Practical example – LRP Bönen - Nordbögge



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### Practical example – LRP Bönen - Nordbögge

- LRP was implemented in April 2013
- Persistent exceedance of the NO<sub>2</sub>-limit value
- Measuring point (s) in immdiate proximity to the motorway
- Polluter-share "Motorway" ca. 42 %
- Open planning measure: Testing of a coating of the noise barrier with titanium dioxide coating (pilot projects have to be tested with regard to efficacy)

LRP also provides for the implementation of measures that are independent from the plan => Plan-update not necessary in the first moment

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#### Practical example – LRP Bönen - Nordbögge



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#### Tempolimit auf der A2 soll Luftbelastung eindämmen

Bönen - Wenn Autofahrer auf der Autobahn 2 mit Tempo 200 an Bönen vorbeirasen, kann dies ab Herbst sehr teuer für sie werden. Zukünftig sind vor und hinter der Anschlussstelle Bönen nämlich nur noch 130 Stundenkilometer erlaubt. Die Bezirksregierung Arnsberg hat diese Geschwindigkeitsbegrenzung angeordnet, um die Stickstoffdioxid-Belastung im Ortsteil Nordbögge zu reduzieren.



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### Practical example – LRP Bönen - Nordbögge

- Introduction of Speed limit 130 as a planindependent measure
- Impact check
- p.r.n. consideration of further speed reduction

#### Attention:

- The responsible transport authority is the issuing authority, not the immissions protection authority (-> Agreement)
- Immission-side efficacy of a speed limit depends always on the individual context

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### **Practical example – Dortmund – Brackeler Straße**



Source:



#### Practical example – Dortmund – Brackeler Straße

- LRP Ruhrgebiet implemented: 15.10.2011
- PM10-limit value satisfied since 2012
- Persistent exceedance of the NO<sub>2</sub>-limit value
- NO<sub>2</sub>-Polluter share "local motor vehicles": ca. 50 %
- Plan-measure: Lorry-closure >3,5 t, Public transport allowed
- No open plan tasks for Brackeler Straße
- Considerable violation of road closure for lorries
- => Plan-independent measures to increase the compliance rate, e.g. controls by the police

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#### **Practical example – Dortmund – Brackeler Straße**

#### **Brackeler Straße**

#### **Neuer Super-Blitzer**

am 03. Juli 2014 um 16:26 Uhr

Das LKW-Fahrverbot auf der Brackeler Straße wird ab sofort von einer Hightech-Blitzeranlage überwacht. Für jede Fahrtrichtung gibt es eine etwa 2 Meter hohe Säule, die mit Hilfe von Lasertechnik Lastwagen erkennt.



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#### Practical example – Dortmund – Brackeler Straße

- Installation of automated traffic monitoring by the responsible municipality
- Agreements with the city about the vehicle deployment logistics for public transport and waste disposal

#### Attention:

- Municipality decides about the establischment of the speed camera, not the district authority
- For better differentiation between vehicles, the closure applies now to all lorries >2,8 t

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#### **Practical example – LRP Erwitte**



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#### **Practical example – LRP Erwitte**

- Esxceedance of NO<sub>2</sub> limit value existent
- Deployment of LRP is necessary(in Kraft seit 03.02.2014)
- NO<sub>2</sub>-Polluter share "traffic": 59 %, "lorries": ca. 39 %
- Railway crossing ensures backlog on the stress centre
- B1 and B55 are important as prior federal roads (A-Roads); Thus, road closures for lorries are not an option
- Alternative traffic assignments / bypasses are not feasible with regard to the required time frame
- => Promising and influencable measures refer to traffic-relocatian and better traffic flow

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### **Practicle example – LRP Erwitte**



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#### **Practical example – LRP Erwitte**

- Traffic-relocation through route-concept for lorries
- Optimisation of traffic light curcuit (incl. priority to busses and special green phases at railway crossings)

#### Attention – Route concept for lorries:

- Demand declaration of self-commitment from businesses
- P.r.n, repeal of existing traffic restrictions to improve road network flexibility
- Coordination with other existing restrictions
- Assessment of the changed noise and hazard situation
- Check bridge payloads if necessary
- Responsible transport authority is the issuing authority (-> Agreement)

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#### Practical example – LRP Hagen



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#### Practical example – LRP Hagen

- Clean air plan implemented in 2008
- Despite truck route concept, NO2 and PM10 exceed the limit value
- Pollution is favoured by road cross-section and the location in a valley
- Very low compliance rate with the route concept

- => Exhaust possible planning measures (UZ, building measures)
- => Plan-independent measures to increase the compliance rate are necessary, e.g. controls by the police

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#### **Practical example – LRP Hagen**

#### LUFTVERSCHMUTZUNG

### Routenkonzept ein Flop -Lkw werden fotografiert

Von Boris Schopper



Hagen. Die Umweltzone kommt in Hagen zum 1. Januar. Die ersten Schilder sind schon aufgestellt. Lkw, die bereits bestehende Durchfahrtsverbote missachten, sollen künftig geblitzt werden.

Die erweiterte Hagener Innenstadt <u>wird</u> <u>ab dem 1. Januar 2012 zur Umweltzone</u>.

Quelle: Westfalenpost

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#### Practical example – LRP Hagen

- Introduction low-emission zone (01.01.2012)
- Establishment of automated traffic control by the responsible municipality to increase the compliance rate of immission-controlled road closure

#### **Attention:**

 Municipality decides about the establishment of the speed camera, not the district authority

> Despite the taken measures, the exceedance of limit values still persists> LRP Hagen is currently getting updated