

Addressing air quality issues by means of parking policies



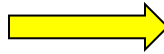
Benjamin Sternkopf
Air Quality Planning, focus on traffic and mobility

Berlin air quality assessment

NO₂ pollution & traffic trend

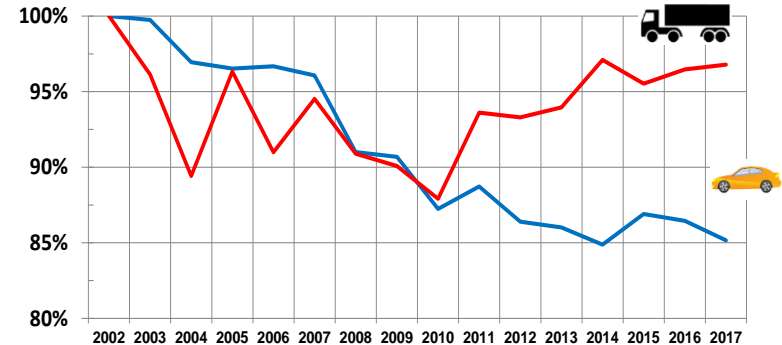
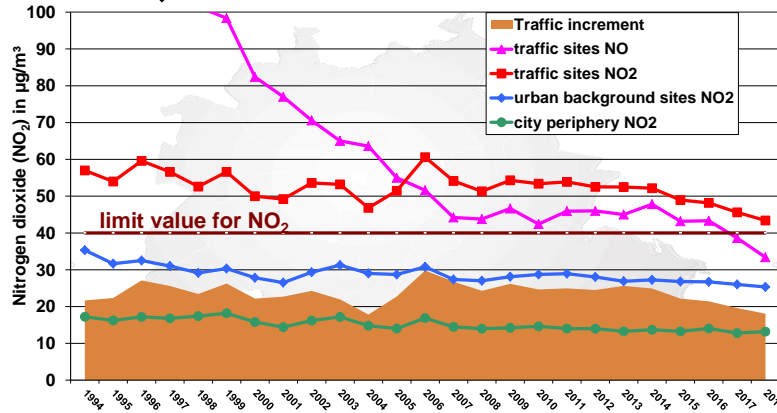
Despite of ...

- the LEZ
- decreasing traffic volumes
→ 14% passenger car traffic since 2002



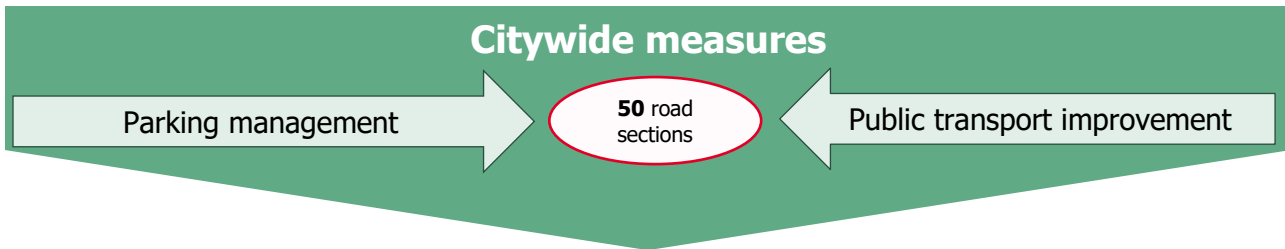
...NO₂ concentrations stagnate

→ In 2014: only -3% since 2002

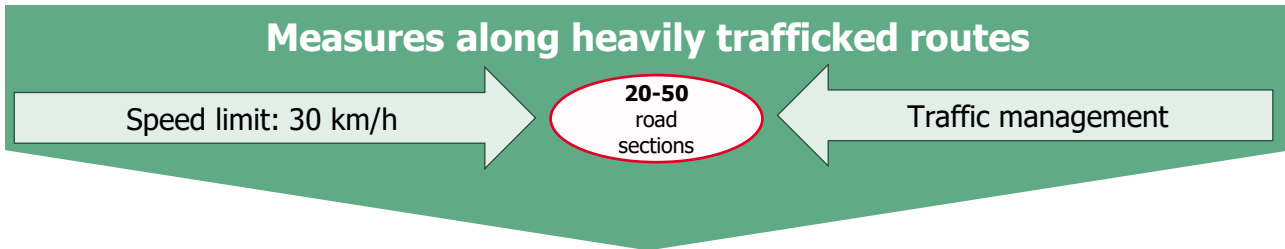


Extra measures badly needed

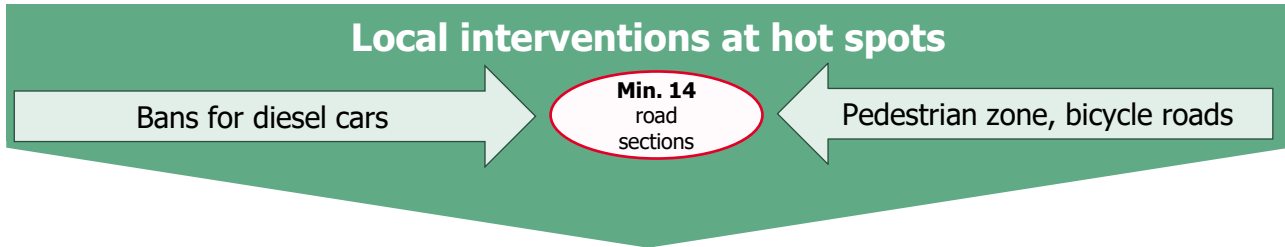
Push-Pull-Approach for 117 road sections



- Reducing **car traffic**
- Improvement for other **traffic problems** (Elsen- and Rudolph-Wissel-Bridge)
- Support by **Mobility Act**
- Support of **Climate Plan**



- Focus on coherent routes
- Plus: Help for **Noise Action Plan**
- Support of **Vision Zero**



- **Minimization of diesel bans**
- New programmes for traffic lights

Large scale parking management

Coverage of the city center (88 km²)

2019 ≈ 35 %

2020/21 ≈ 75 % (planned)

2023 ≈ 100 % (planned)

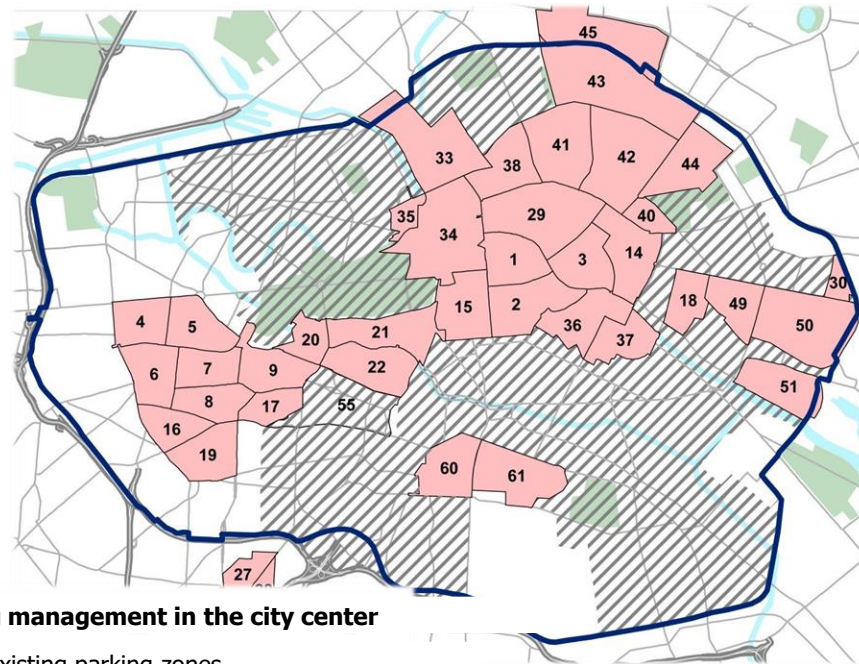
Updated pricing (planned in 2020):

1 €/h → **2 €/h** (moderate demand)

2 €/h → **3 €/h** (high demand)

3 €/h → **4 €/h** (very high demand)

But: resident parking 10 €/year

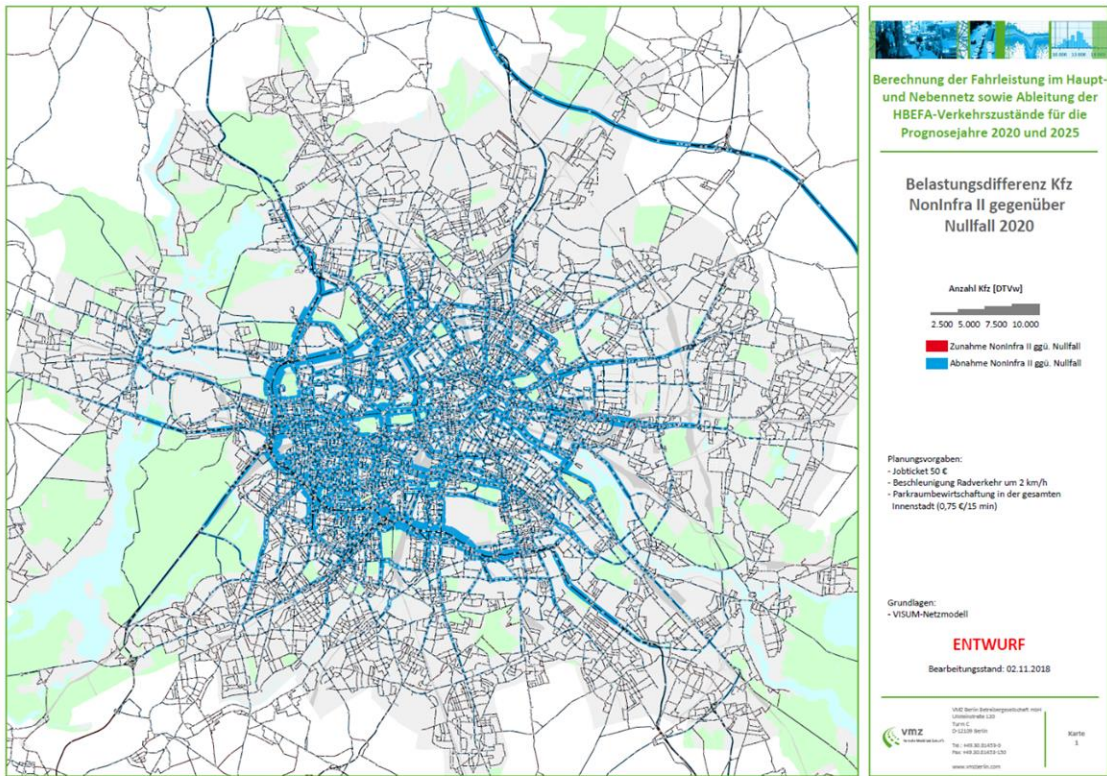


Parking management in the city center

Existing parking zones

Planned until 2020/21

Expected effects on traffic and emissions (100 %)



Traffic

9.6 % less traffic on average
(1 bn car-km/a)

Emissions

6.5 % less NO_x
(233 t/a)

Immissions

-0.5 to -4.2 µgNO₂/m³ on hot spots
-2.3 µgNO₂/m³ on average

Current challenges and perspectives

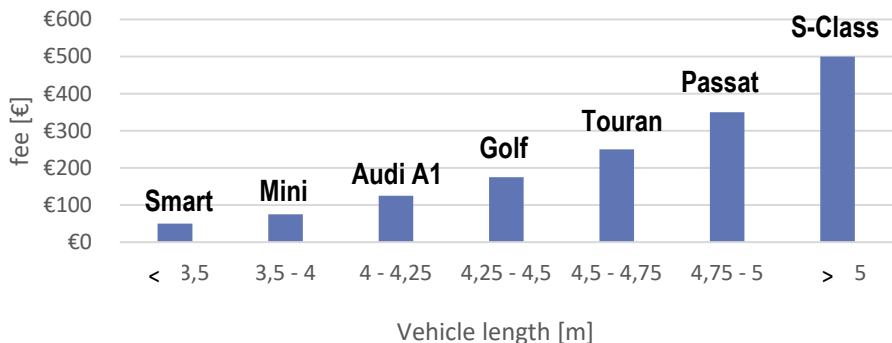


- **Two levels of government** and administration in Berlin: 12 autonomous districts
- **Political dissent** on parking policy (despite of binding urban development plans)
- Ambitious schedule with simultaneous **after-effects of austerity policy** in Berlin
- **No upper limit for parking lots** in private buildings
- **Increased fine** for parking without ticket (but still low: from 10 € to 20 €)
- Amendment of federal law: **abolition of the price limit** for resident parking permits

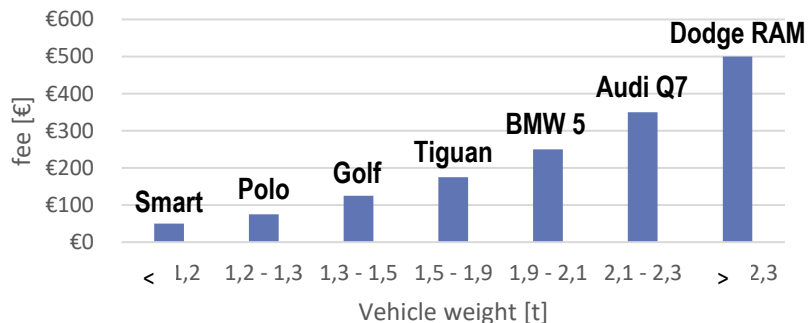
Environmental proposals for residents permit

- Use of environmental advantages (air quality, noise reduction, CO₂)?
- Response to the volume and weight growth of cars in Berlin?
- Solution for neighbourhoods with high (nightly) parking pressure?

Vignette fee by length



Vignette fee by weight



Thanks for listening!

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