



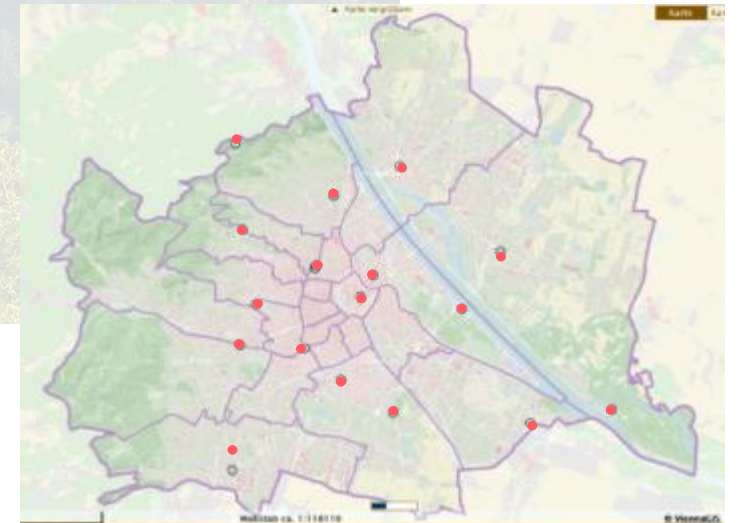
1905: „Viennese Forest And Meadows Belt“

1910: II. Hochquellenwasserleitung – water supply from mountain ranges

1988: Danube Island

2001: 1.550.000 Inhabitants

2021: 1.921.000 Inhabitants



Strategies (also) for better air quality

Vienna follows a synergetic and holisitic approach to improve environment and quality of life

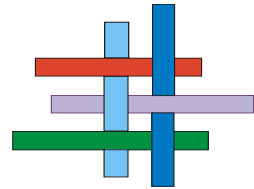
1999 ff



KLiP
Climate protection Plan

www.wien.gv.at/umwelt/klimaschutz/programm/

2005 ff



ULI-Wien
Urban Air Initiative– Vienna

www.wien.gv.at/umwelt/luft/

2011 ff



Best quality of life for all people in the city – combined with maximum **resource preservation**, which is brought about by comprehensive **innovations**.

www.smartcity.wien.gv.at

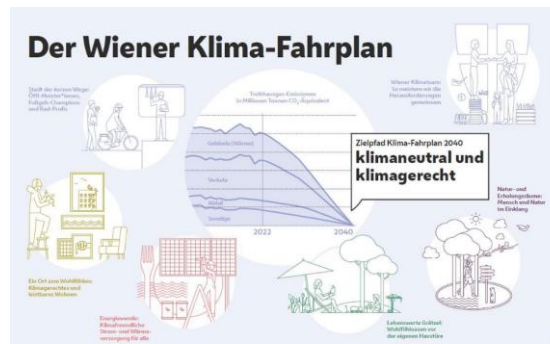
2022 ff

Wiener Klimafahrplan
Climate protection roadmap

<https://www.wien.gv.at/umwelt-klimaschutz/klima-fahrplan-2040.html>

2040

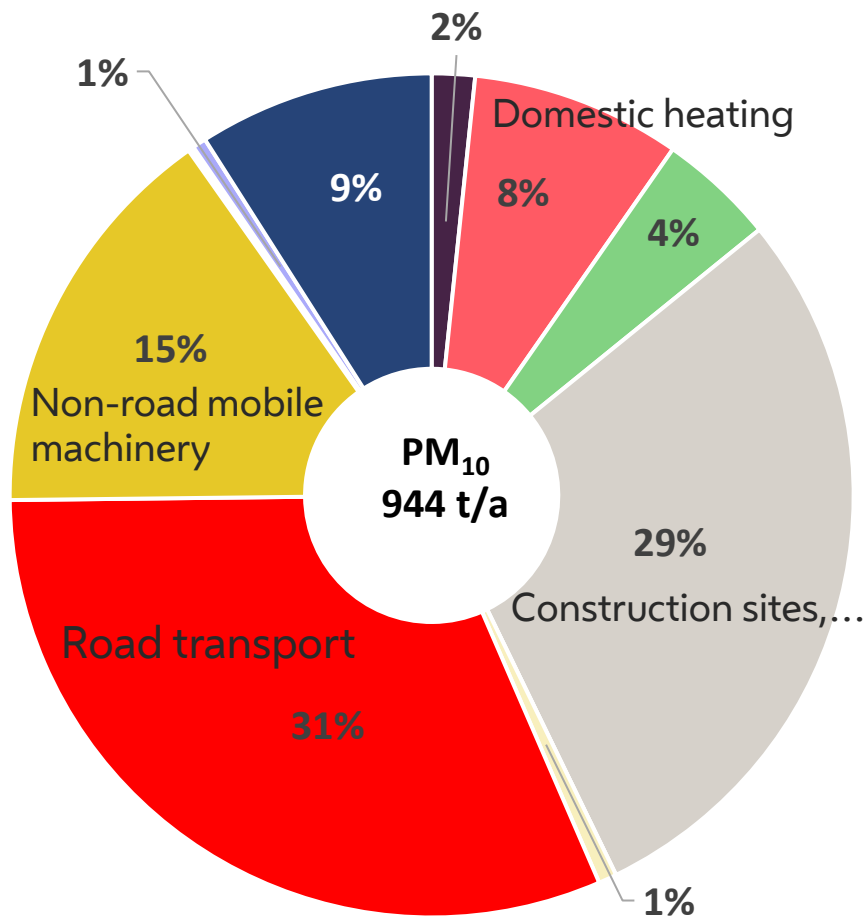
Climate neutrality



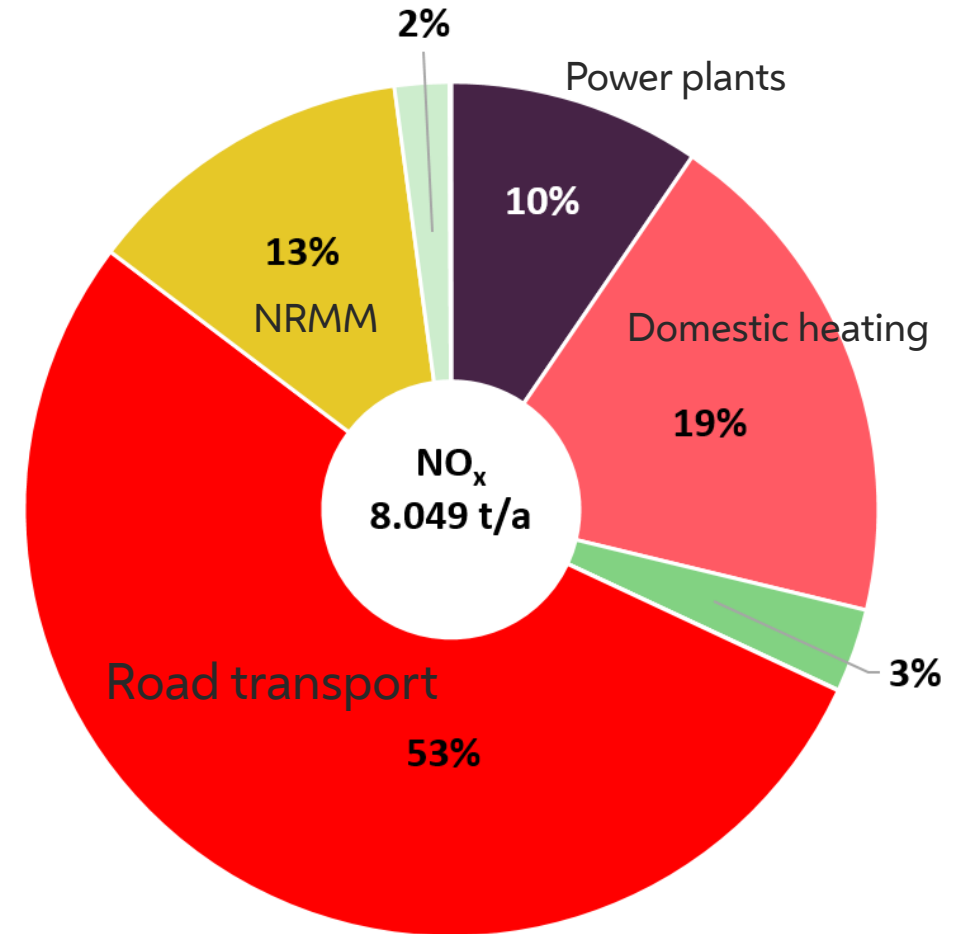
Stadt Wien

Emission inventory results for particulate matter PM10 and nitric oxides NOX

Scenario 2015 after update 2017



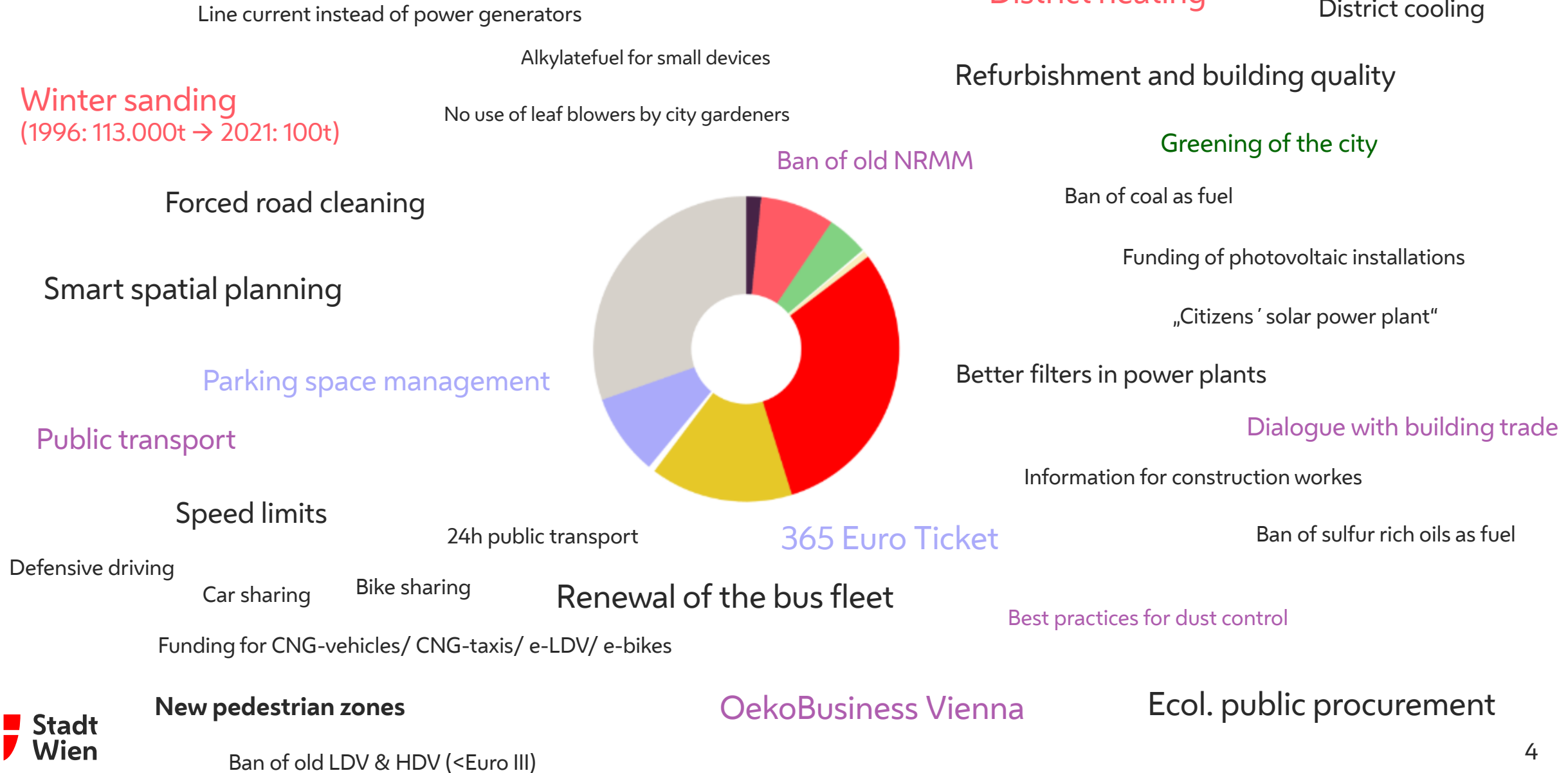
- Combustion in the production and transformation of energy
- Non-industrial combustion plants
- Industrial combustion plants
- Industrial processes without combustion
- Use of solvents and other products
- Road Transport
- Other mobile sources and machinery
- Agriculture
- Other sources and sinks (nature)
- Waste treatment and disposal



Other regulated pollutants (SO₂, CO,...) are far below limit values
Ozone is a topic of it's own...

Activities (not only) for better air quality

Winter sanding
(1996: 113.000t → 2021: 100t)



Key factor public transport

- tickets **365€** per year
- new tram and U-lines
- shorter intervals
- 24h
- ultralow floor trams
- barrier free stations
- real time information

- Euro VI- busses, e-busses in regular use, hydrogen busses in regular use by 2023

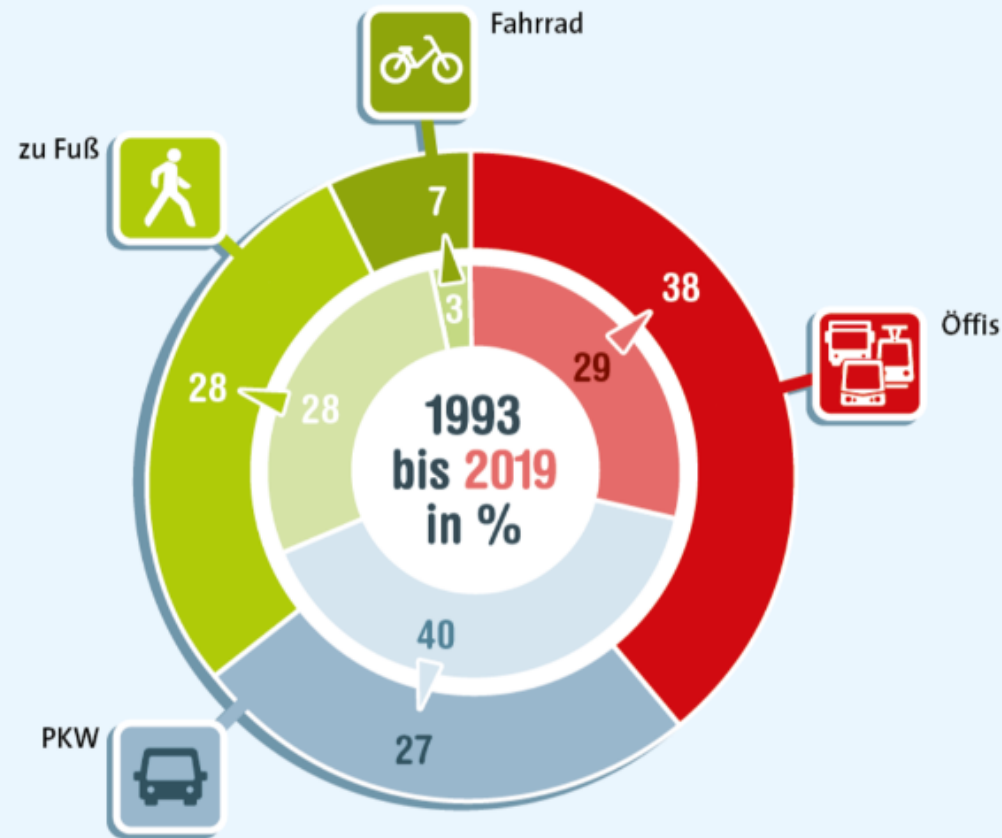
Amplified by parking space management, speed limits, mobility points for combined traffic, bicycle infrastructure,



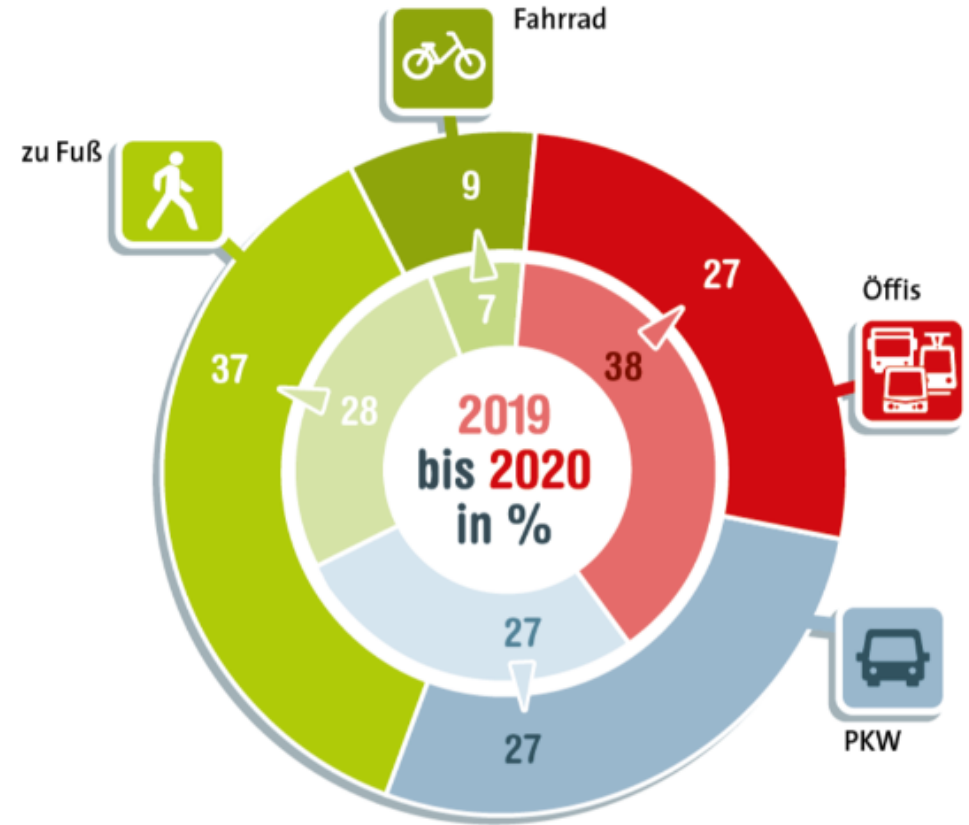
A key factor: modal split in Vienna

In the years 1993, 2019 und 2020

Wahl der Verkehrsmittel 1993 – 2019 in %

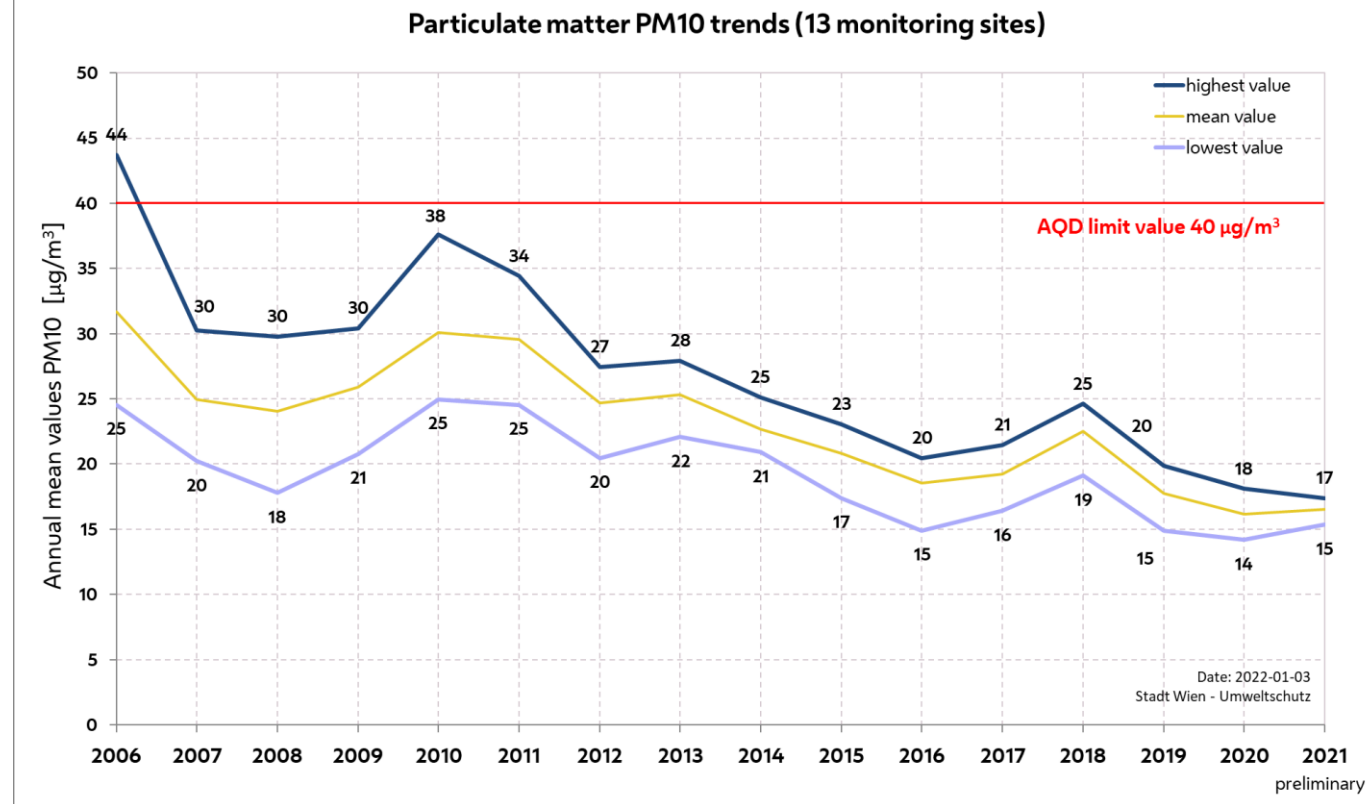
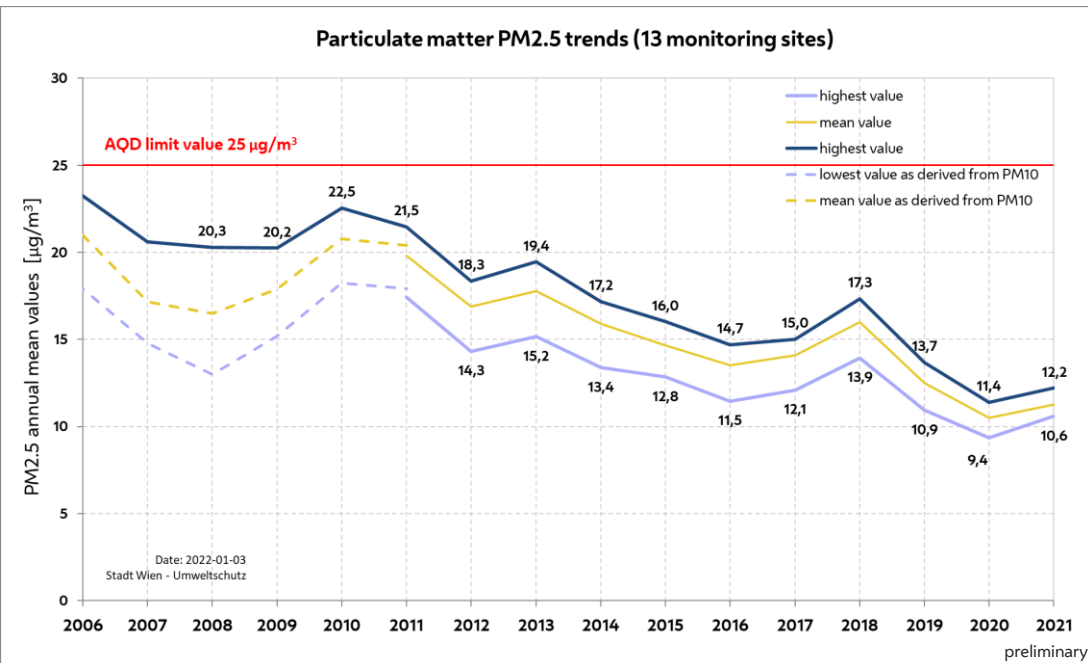


Wahl der Verkehrsmittel 2019 – 2020 in %

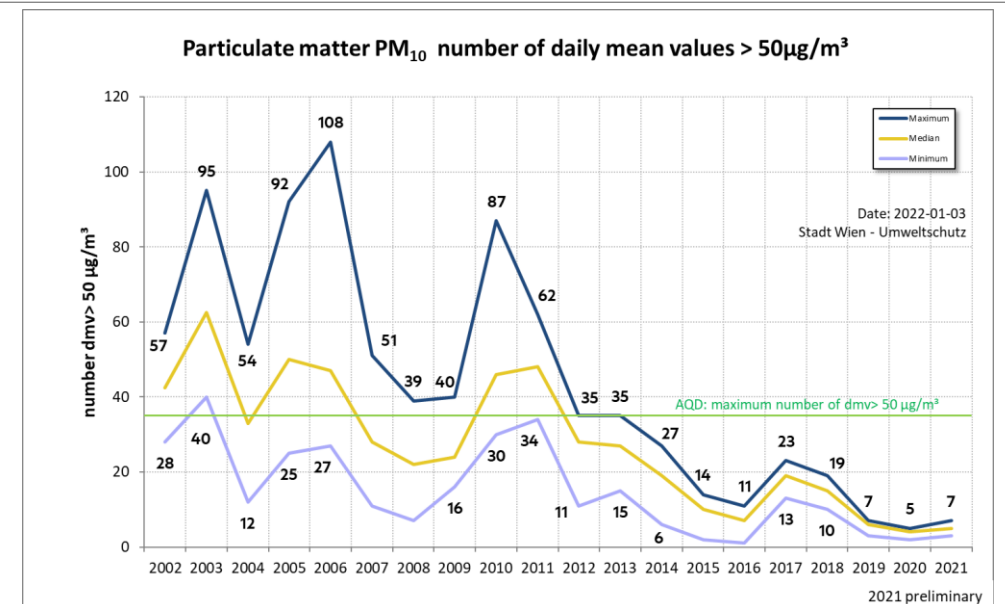


Quelle: Wiener Linien

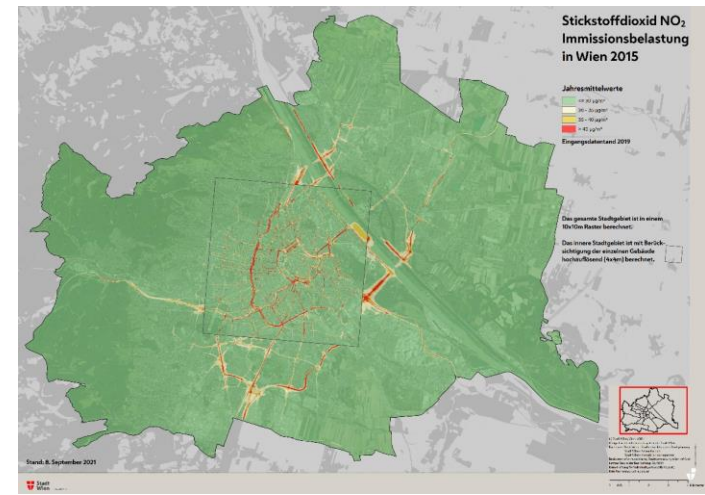
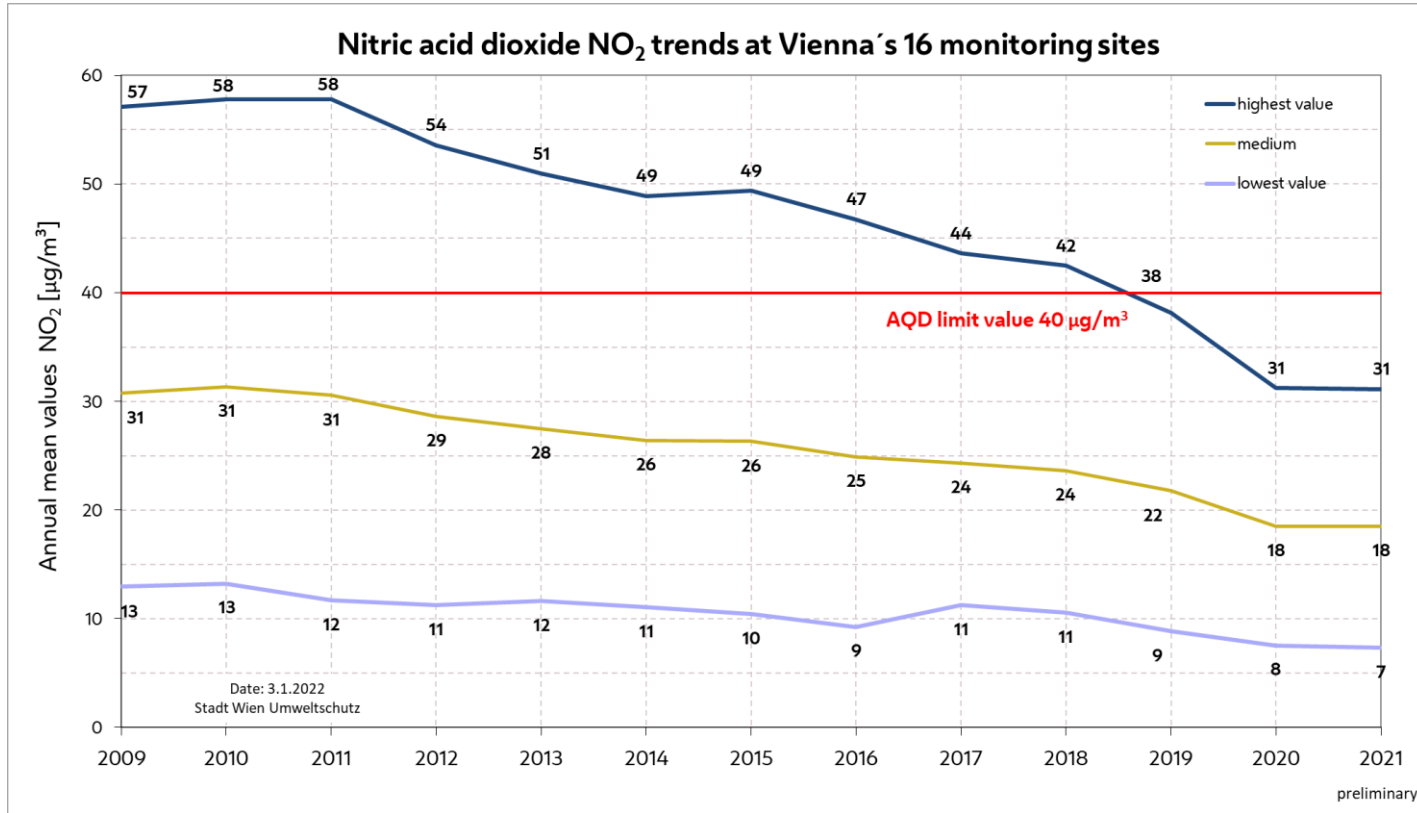
Particulate matter PM10 and PM2.5



- Local increment rather small
- Supra-regional measures highly relevant
- Secondary aerosols!

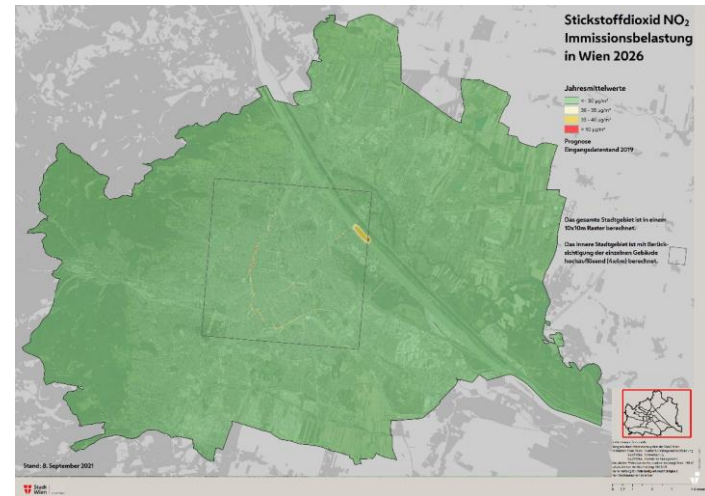


Nitrogen dioxide NO₂



2015

< 30 µg/m³
> 40 µg/m³



2026

- Local increment large at hot spots (very limited areas)
- Euro 6d, Euro 7 and e-mobility reduce NOX from traffic
- Climate measures (changes in mobility and heating) will force further reductions



- Upcoming European legislation (Fit for 55, AQD, Euro 7, ...) !
- Technical developments in monitoring !
- Modelling (good input data needed) !
- IoT and Citizen Science (quality and resources) !
- Climate change, ... !

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