



# GWFF

GEOSPATIAL WORLD FORUM

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## **Geospatial World Forum – *Data and participation based policy-making***

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## Clean Air for a sustainable city

For citizens, visitors and entrepreneurs

Air pollution in Amsterdam equals 6 cigarettes a day

Shortens life of the average Amsterdam citizen by 11 months and has impact on (unborn) children.





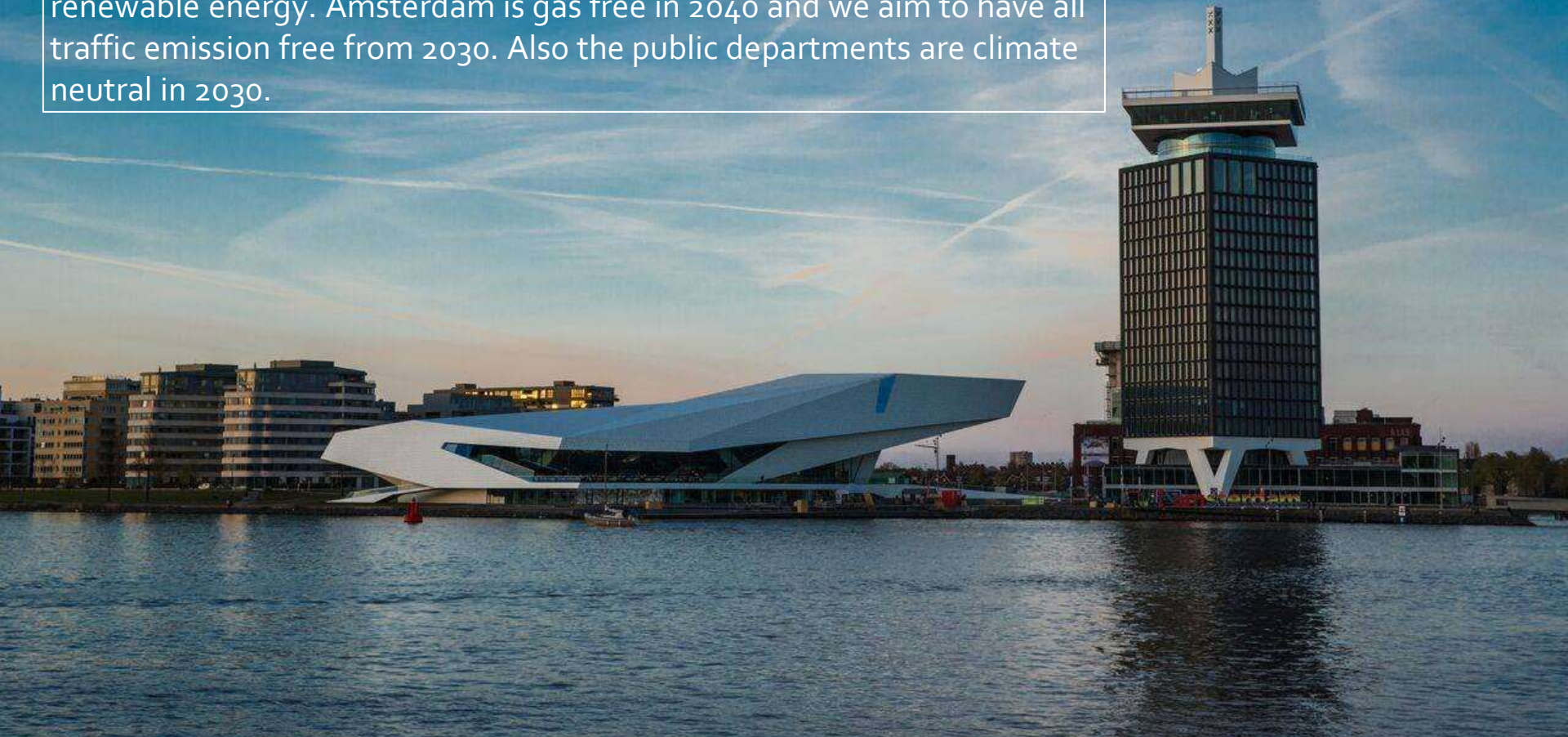
# Targets air quality

Substance	Calculated yearly average Amsterdam 2021	Current EU Legal restriction	2005 WHO norm	Proposed European Committee (2030)	2021 WHO Norm (2035)
PM 2.5	10,3 µg/m <sup>3</sup>	25 µg/m <sup>3</sup> ✓	10 µg/m <sup>3</sup> ✗	10 µg/m <sup>3</sup> ✗	5 µg/m <sup>3</sup> ✗
PM 10	18,5 µg/m <sup>3</sup>	40 µg/m <sup>3</sup> ✓	20 µg/m <sup>3</sup> ✓	10 µg/m <sup>3</sup> ✗	15 µg/m <sup>3</sup> ✗
NO <sub>2</sub>	21,4 µg/m <sup>3</sup>	40 µg/m <sup>3</sup> ✓	40 µg/m <sup>3</sup> ✓	20 µg/m <sup>3</sup> ✗	10 µg/m <sup>3</sup> ✗

Measurements in 2021 can be lower due to less traffic in Corona times.

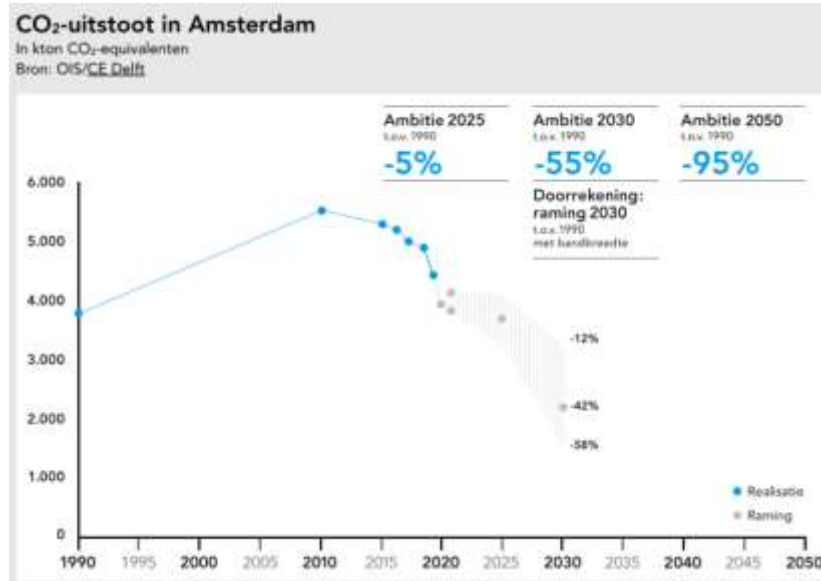


Amsterdam aims to reduce CO<sub>2</sub>-emission by 5% in 2025, and by 60% in 2030 and by 95% in 2050 compared to 1990. Amsterdam moves to 100% renewable energy. Amsterdam is gas free in 2040 and we aim to have all traffic emission free from 2030. Also the public departments are climate neutral in 2030.





# Reduction of CO2 emission



*When all mobility is emission free, we will have reduced 11% out of all CO<sub>2</sub>-emission.*

## CO<sub>2</sub> emission per year [KTON]



Figuur 1: Aandeel CO<sub>2</sub>-uitstoot van wegverkeer in Amsterdam tot en met 2021. Bron: emissieregistratie/TNO.

Calculations are based on:

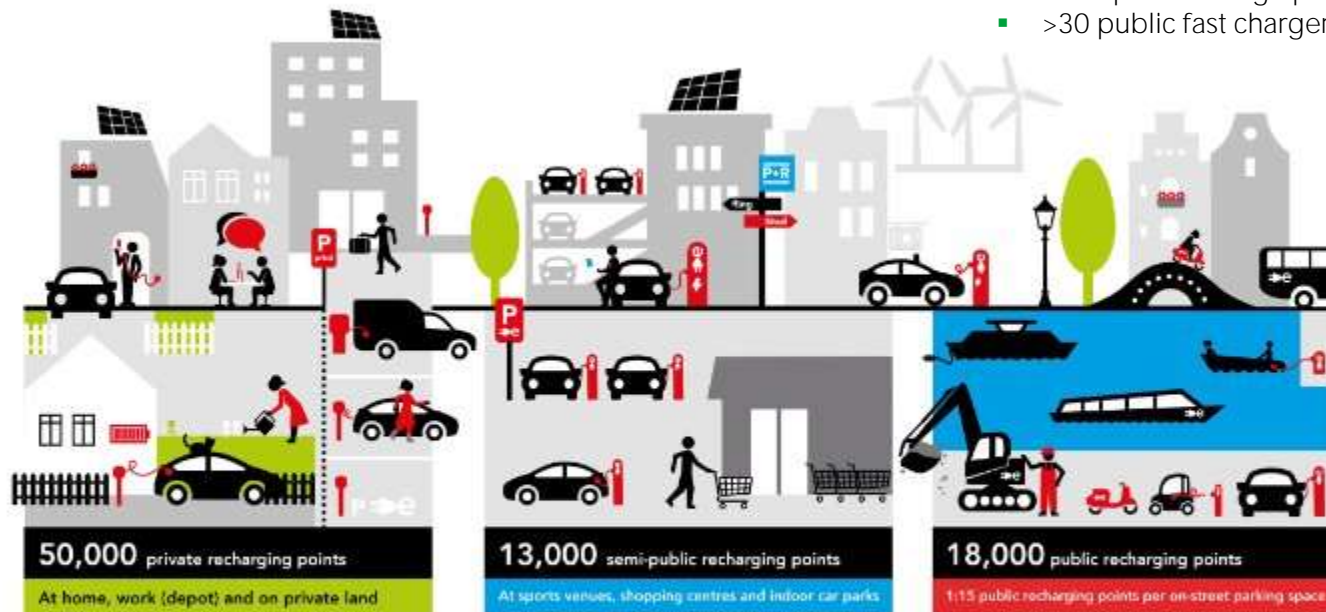
- Registered vehicle kms in Amsterdam
- Composition of the car fleet in Amsterdam
- TNO Emission-factor model



# The recharging infrastructure mix in 2030

[amsterdam.nl/elektrisch](https://amsterdam.nl/elektrisch)

- 6000 public charge points
- >30 public fast chargers



Recharging takes place on private land as far as possible



A public recharging infrastructure spread across the district



We facilitate provision of high-power recharging points at strategic locations



Public recharging infrastructure provided on a strategic and data-driven basis



Working together on a city-wide network of hydrogen refuelling stations

© ONT/2020/01





# Digital Participation supporting charging infrastructure plans

Plans per city section for upcoming 3 years

From request driven to data driven roll out

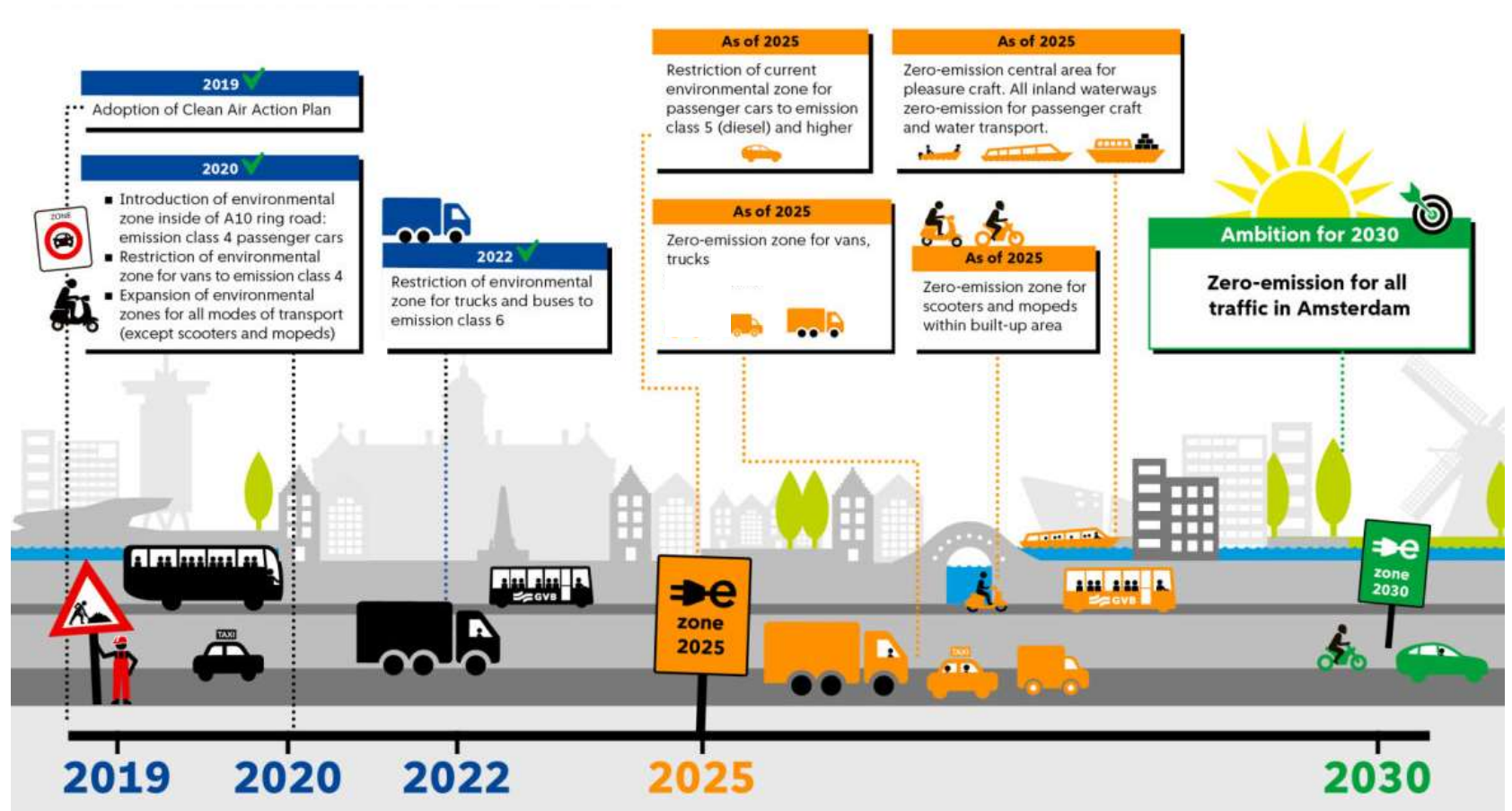
Through online participation.







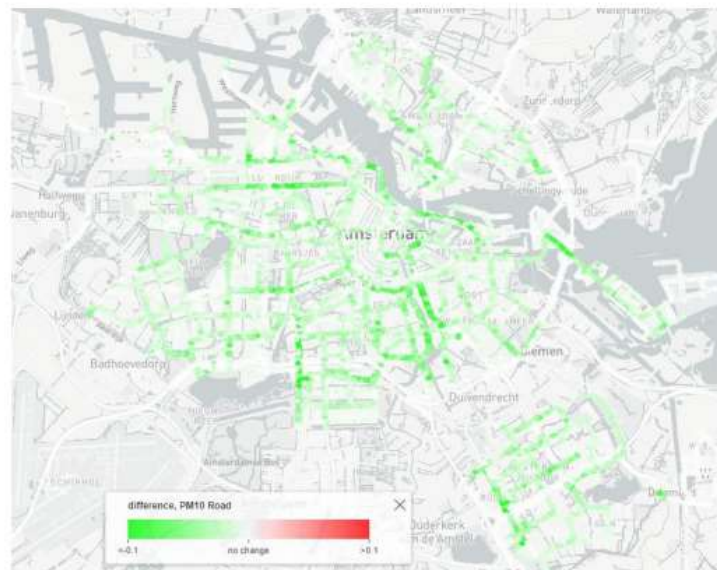
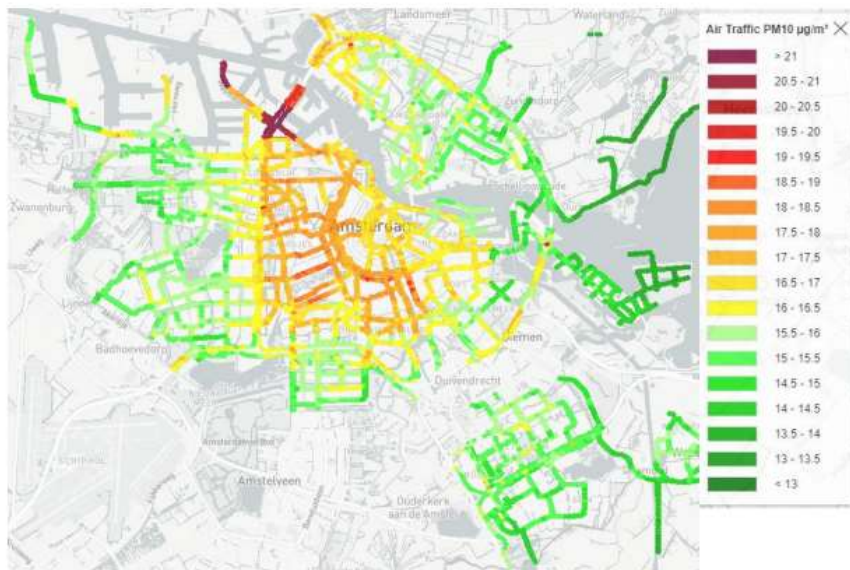
# Action Plan Clean Air – Emission Free Zones





# Data based policy making with the Urban Strategy tool *digital twin*

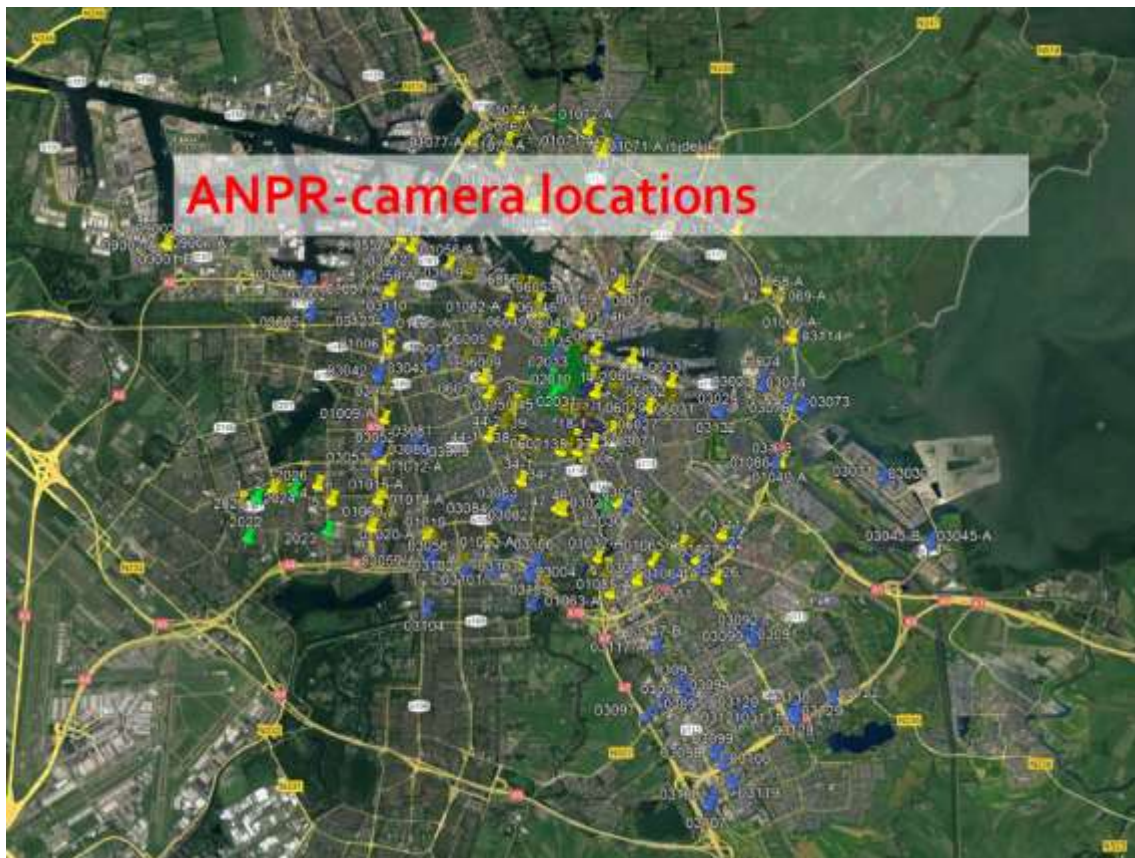
## Effects on concentration PM<sub>10</sub> in 2030



es



# Digital enforcement



One overall system for traffic violations.

1 type of ANPR camera for all types of vehicles.

Amsterdam in control of data, in house dev, open to other cities.





Questions?

