



Zero Emission Zone in the City of Stockholm

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National regulation for municipalities regarding low emission and zero emission zones

	Level 1	Level 2	Level 3 (zero emission)
Regulated vehicles	Heavy vehicles >3,5 tonnes	Light vehicles < 3,5 tonnes	Light and heavy vehicles
Vehicle requirements	Euro 6	Euro 6 (diesel) and Euro 5 (petrol)	Electric, hydrogen, CNG gas (Euro 6). Plug-in hybrids (Euro 6) permitted for heavy vehicles.
Regulation implemented on national level, and when City of Stockholm implemented it	1996, 1996	2020, 2020	2020, 2024

From national regulation to implementation in the city

2020

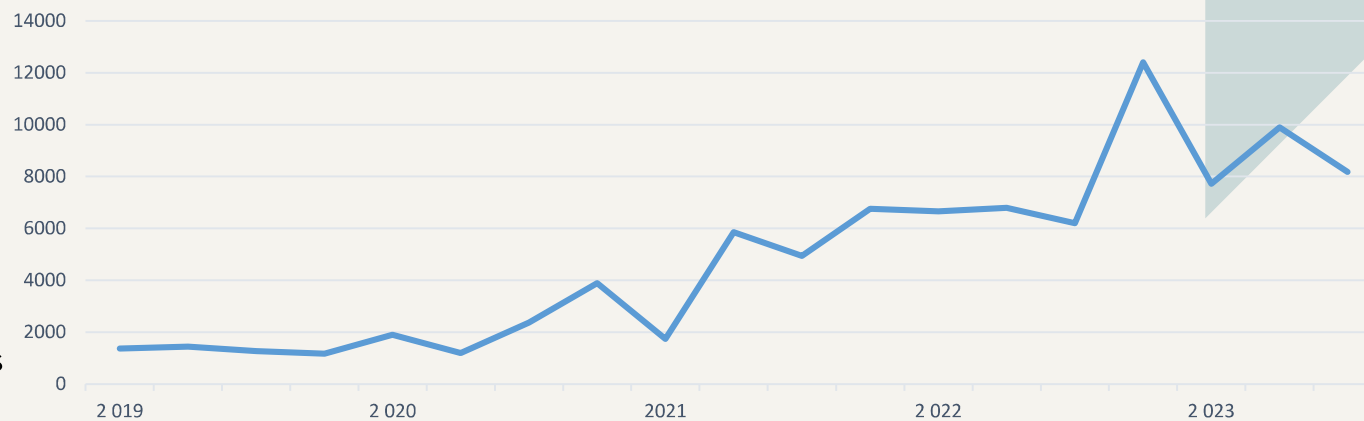
National regulation allows cities to implement zero emission zones

Electrification thrives in the city

2023

Assignment from City Council to implement zero emission

Fully electric passenger cars sold 2019-2023 in Sweden



Few cities with zero emission regulations

Arrow illustrates time from decision to implementation

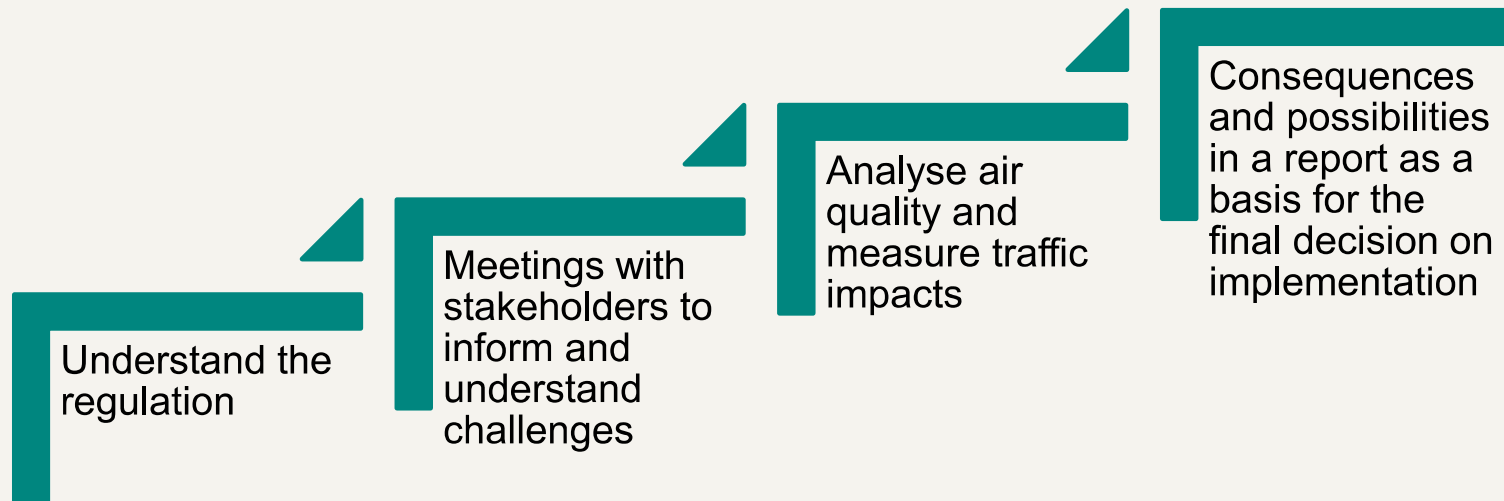


”Implement a **zero emission zone in the central parts of the city by 31st of december 2024. Investigate how the zone can be expanded by 2026”**

City Council Budget 2024



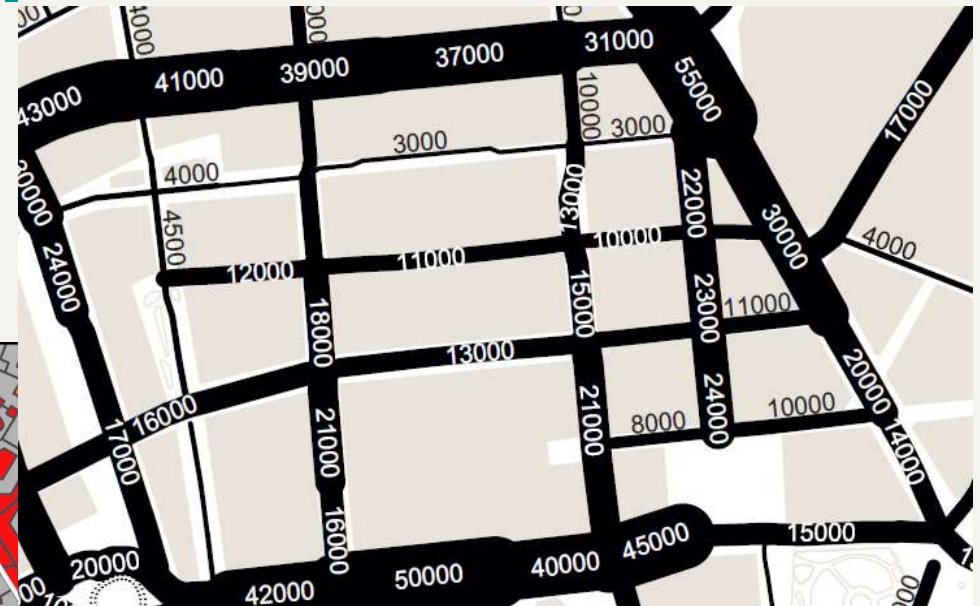
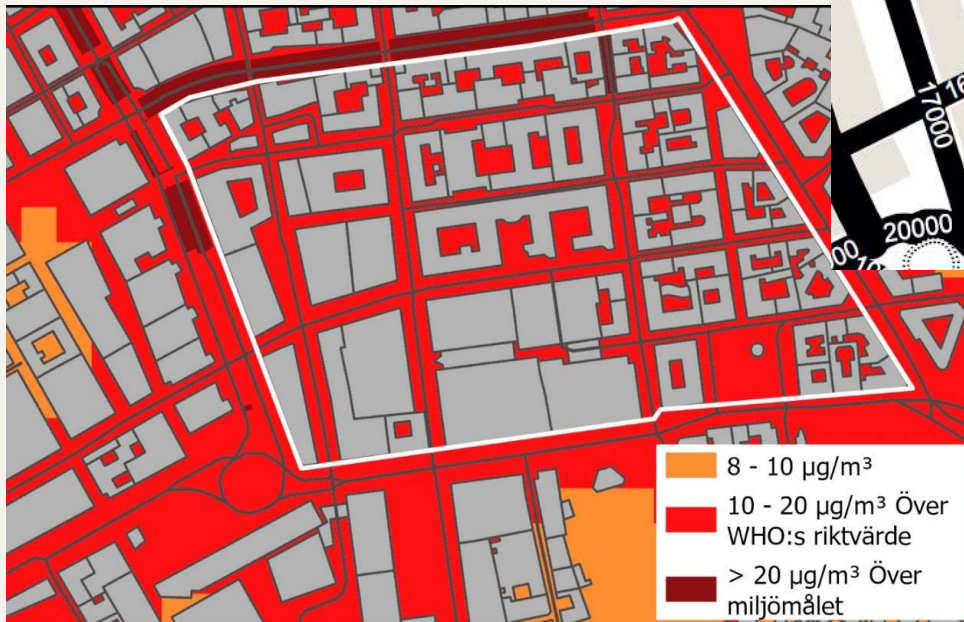
From mission to final decision



Zero emission regulation aims to improve air quality, reduce noise and push for new techniques.

Annual levels above WHO recommendations for NO₂

20 000 pedestrians per day frequent the streets



Vehicles permitted in the zone



Passenger cars:

- Fully electric
- CNG (Euro 6)
- Hydrogen
- *Plug-in hybrids **not** permitted*



Light trucks and light buses:

- Fully electric
- CNG (Euro 6)
- Hydrogen
- *Plug-in hybrids **not** permitted*



Heavy trucks and heavy buses:

- Fully electric
- CNG (Euro 6)
- Hydrogen
- Plug-in hybrids (Euro 6)

Vehicles exempt from the regulation?

Road maintenance vehicles

MC and Moped

Machines

Police, doctor, nurse, veterinary, customs

Other emergency vehicles

Transport of a patient to a doctor or a hospital

Other emergency maintenance vehicles

Correctional service

Defense vehicles

Transportation service for children and elderly people

Disabled people's parking permit

Car support from Social services



About the area

- 400 inhabitants
- 25 000 people working
- 2 malls, 70 shops, 20 restaurants, cafés and bars
- 90 % of all trips to the area made with public transport, biking or walking.
- 7 600 passenger cars (87 % through traffic)
- 4 400 trucks (82 % through traffic)



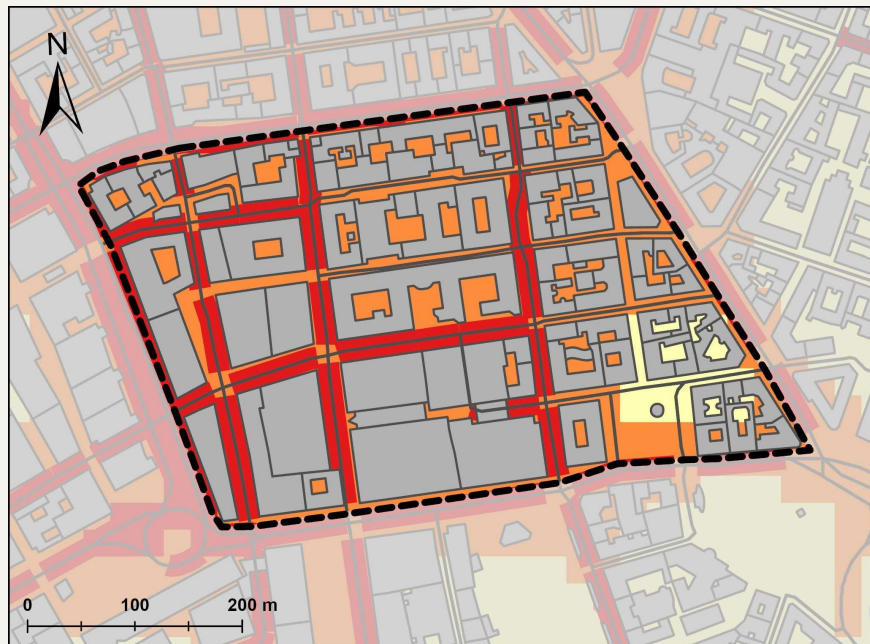
Share of vehicles meeting the requirements today

Vehicle	Studied area	City of Stockholm	County of Stockholm	Sweden
Passenger car	13 %	8,5 %	8 %	4 %
Light truck	7,5 %	6 %	5,5 %	4 %
Heavy truck	13 %	5,5 %	4 %	2 %

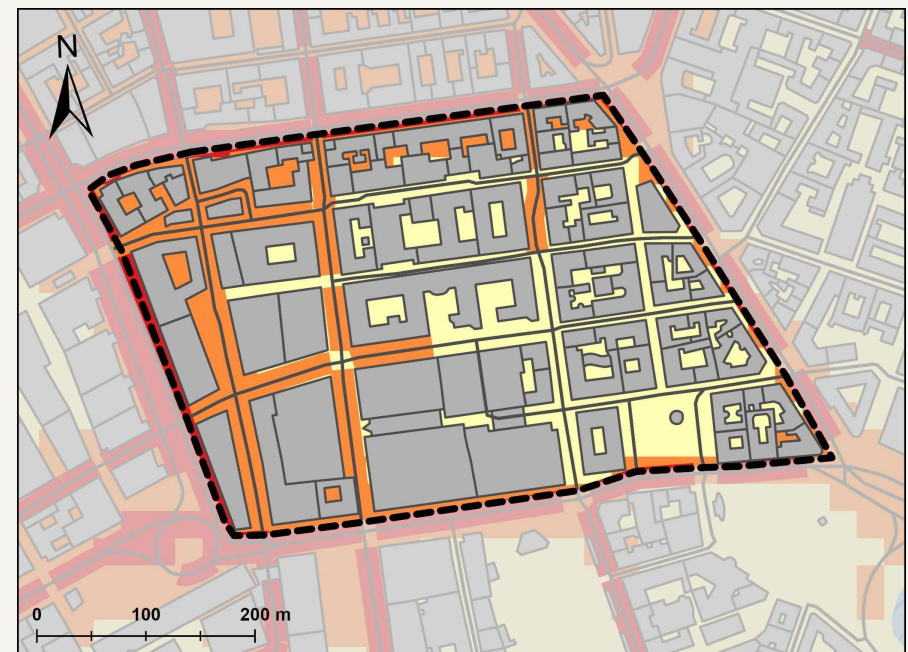
Motives to implement a zero emission zone

- Many pedestrians exposed to poor air quality
- High levels of noise
- Narrow streets generate poor air circulation compared to surrounding streets
- Area is highly accessible without a car and there are alternative routes around the zone
- Contributes to the target of reducing emissions by 80% to 2030
- Contributes to a faster transition to electrification
- Contributes to the target of an emission free inner city 2030

Calculation of the effects on NO₂ levels



NO₂ årsmedelvärde år 2025 utan miljözon klass 3



NO₂ årsmedelvärde år 2025 med miljözon klass 3



Thank you!

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