



What is needed for emission free urban transport?

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Europe is turning green

The European Green Deal:

- no net emissions of greenhouse gases by 2050
- economic growth decoupled from resource use
- no person and no place left behind

EU has selected 100 cities to pave the way towards climate neutrality in 2030

Oslo is one of these frontrunners

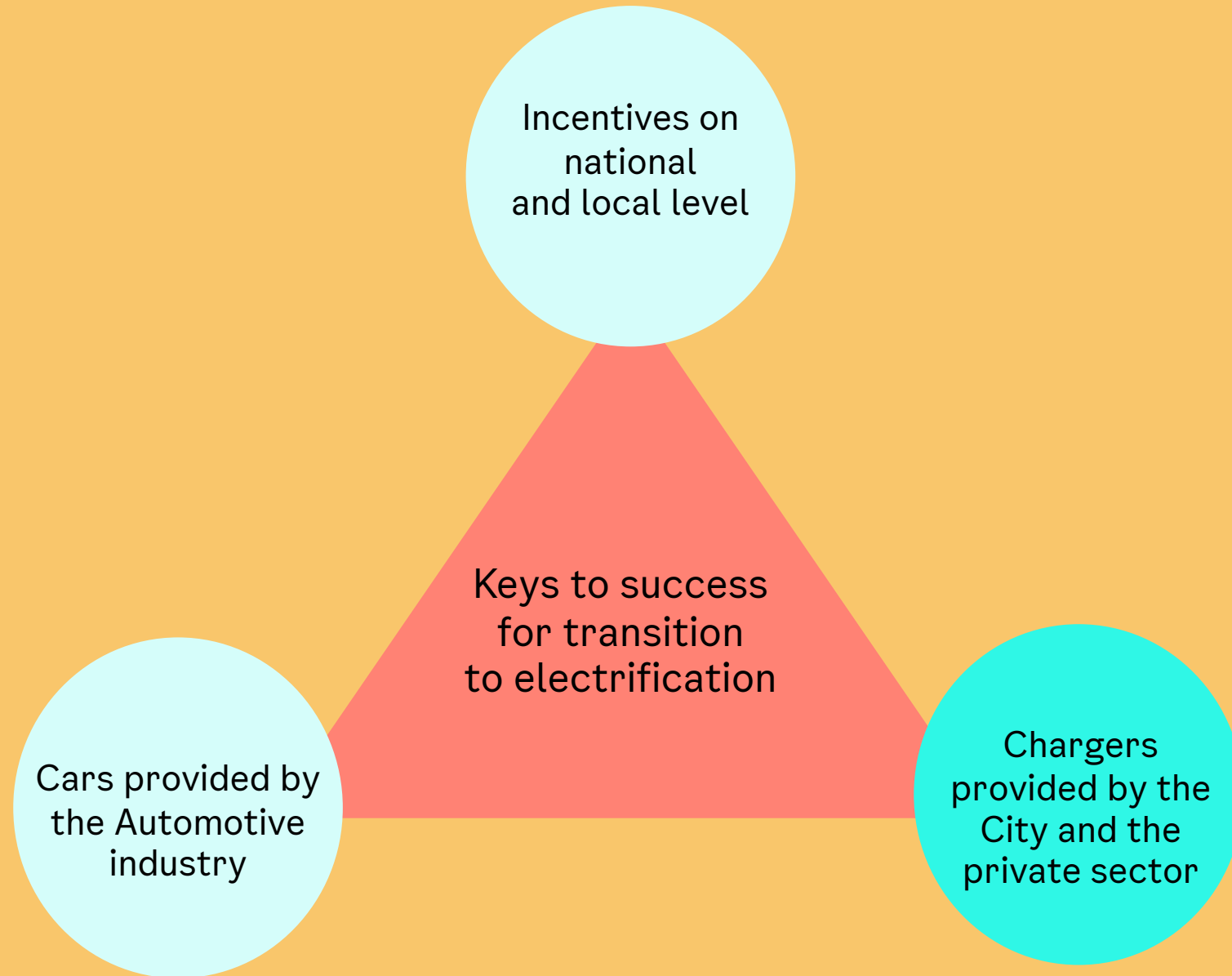
The goal is to make
Europe the first
climate neutral
continent in the world

The European Commission

Rethinking urban transportation

- ▶ Transition towards emission free transport
 - radical measures are needed to reduce climate gas emissions from transport
 - electrification will play a pivotal role to reach emission free urban transport
- ▶ Oslo has already set bold targets for transport
 - Reduction of motorised traffic by 1/3 by 2030
 - Only emission free passenger cars and vans by 2030



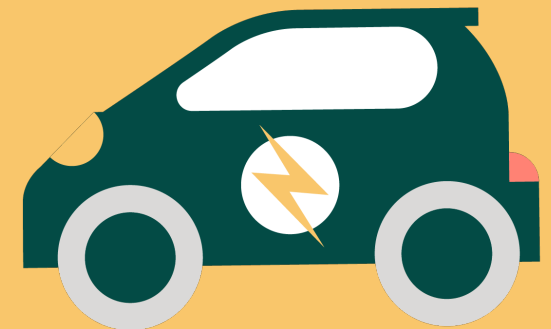


Passenger cars

Oslo has taken an active role in deploying public charging infrastructure.

Oslo's traffic picture will change from approximately 90,000 electric passenger cars today to almost 200,000 in 2030.

This will require a continued deployment of public charging infrastructure.



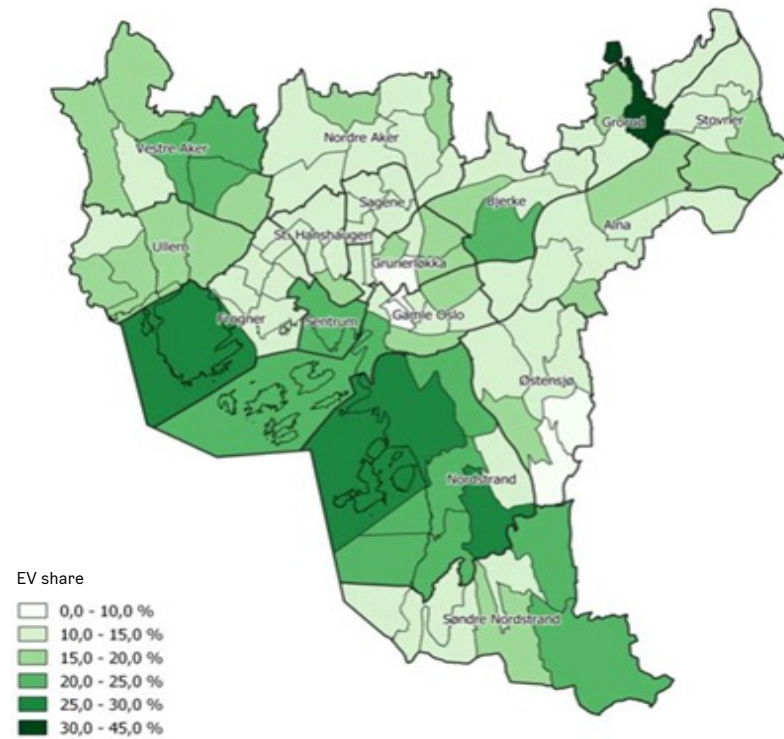
Oslo cannot cover the entire future charging need in the city and must prioritize and at the same time ensure that *all inhabitants* can take part in the shift towards an emission free urban mobility.

This requires clear priorities and strategic planning based on *where the needs for charging are greatest*.

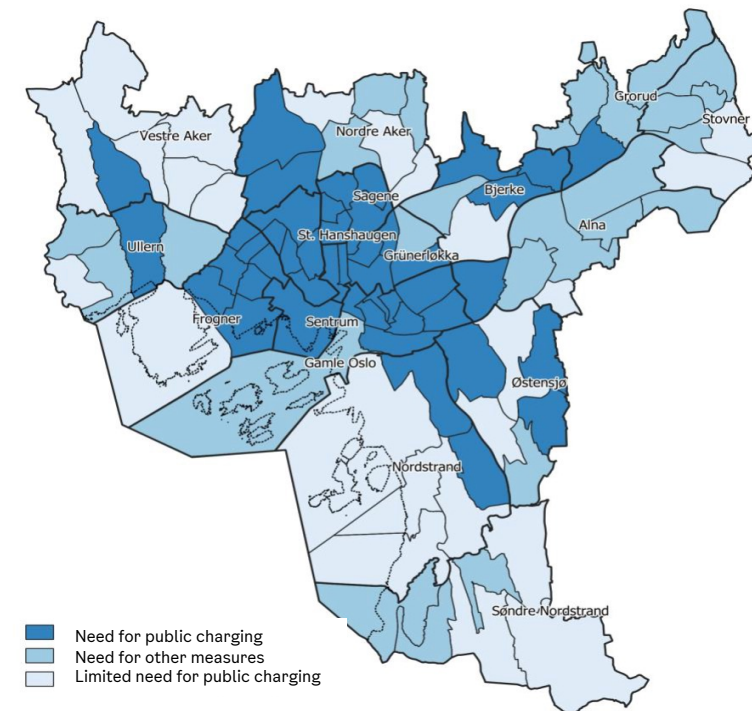


In 2020 Oslo did a mapping of the needs for charging based on:
EV share, housing structure and utilization rate of existing public charging stations.

EV share

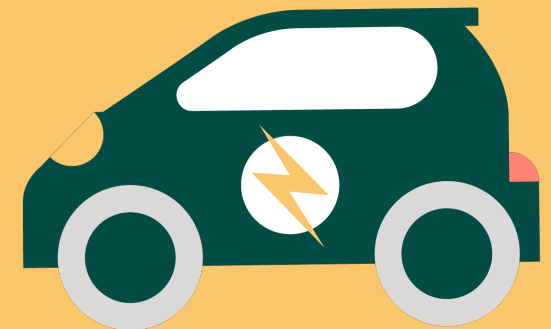


Need for public charging



Guiding principles:

- ▶ Recommendations based on the mapping of charging needs:
 1. Leave it to private initiatives to deploy charging
 2. Support the private sector to deploy charging when needed
 3. Deploy public charging only where needed



Vans and heavy vehicles

Vehicles sold in Oslo in May -22:

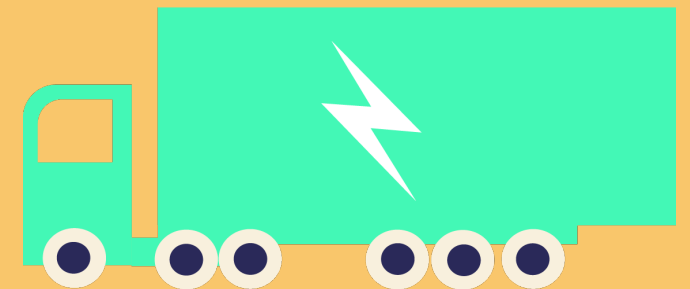
- 23 % of heavy vehicles were fully electric
- 35 % of vans were fully electric

Vans

- Inner city public charging reserved for vans

Heavy vehicles

- Ultra-rapid charging needed during driver's break
- Heavy vehicles need big space for charging



Electrification will not solve all challenges

- ▶ Electrification is an important step to fulfill Oslo's goals for emission free transport, but will not solve all challenges for urban transport.
- ▶ Oslo has also a goal of reducing traffic by 1/3.
- ▶ To seek solutions, Oslo is coordinating the EU funded project MOVE21, aiming at smarter and cleaner mobility and logistics in European cities.





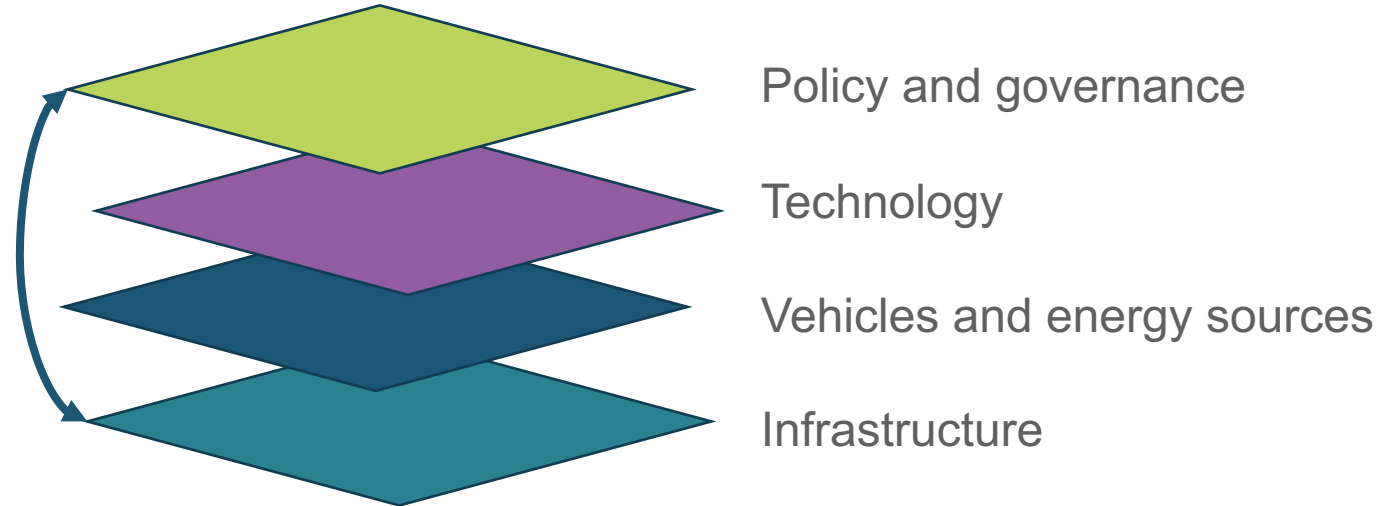
MOVE21 CONCEPT

HOLISTIC APPROACH

View passenger and freight transport together

Increase:

- innovation capacity
- liveability
- accessibility
- capacity utilisation



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 953939



To sum up

- Electrification is a key to emission free urban transport
- Charging is a key to electrification
- Public charging secures that no one is left behind
- Electrification will not solve all challenges
- Holistic approach is needed to secure smarter and cleaner mobility

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