

Lutske Lindeman City of Rotterdam Towards a businesscase for public charging infrastructure

25 05 2016



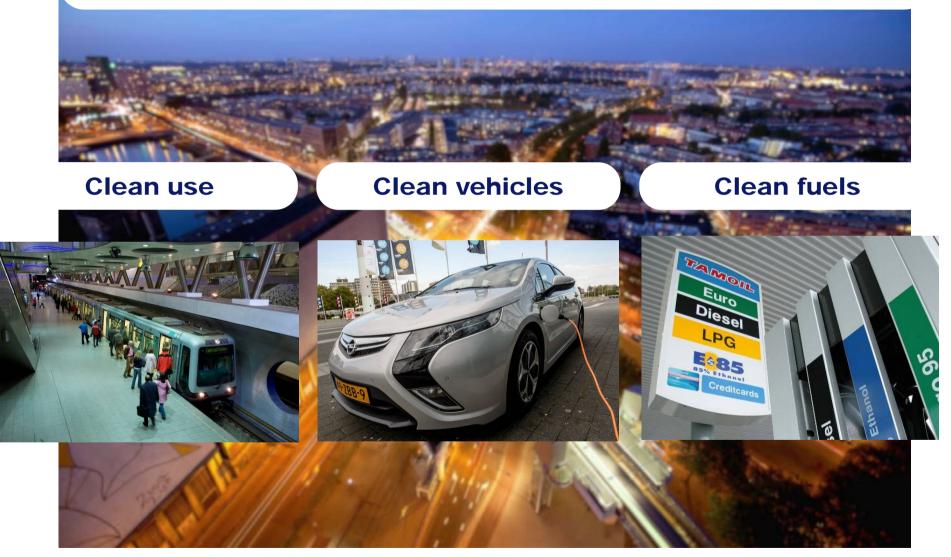








Strategy sustainable mobility







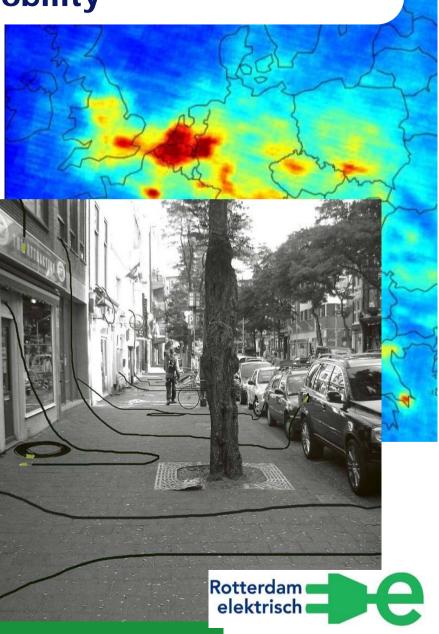
Electric mobility

Purpose (why)

- Air quality and health
- Economic growth
- Meeting demand inhabitants and responsibility public space

Measures (what)

- Charging infrastructure
- 0 emission distibution
- Municipal Fleet



Charging Policy

1. Setting the frame

(policy) who, where, when \rightarrow Charging Ladder

→ Demand driven

2. Initiating

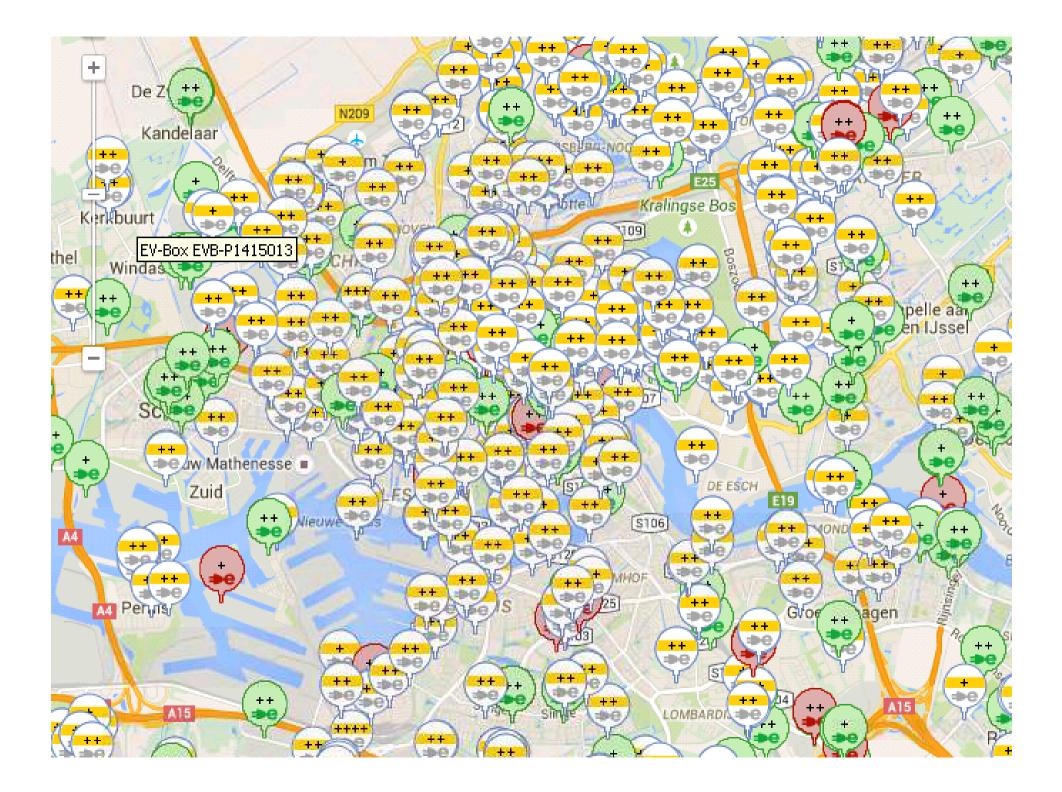
Attracting companies \rightarrow Growth of the network

3. Withdrawal

Only public tasks

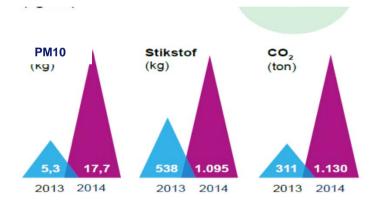




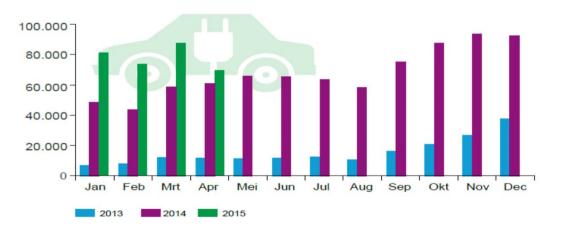


Usage in Rotterdam

2013: 2.110.000 electric km's 2014: 7.090.000 electric km's **Avoided Emissions**



Charged @ public charging stations





Forecast 2018

4500 e-cars extra \rightarrow

3000 cars charging on street

1000 charging poles

New Approach

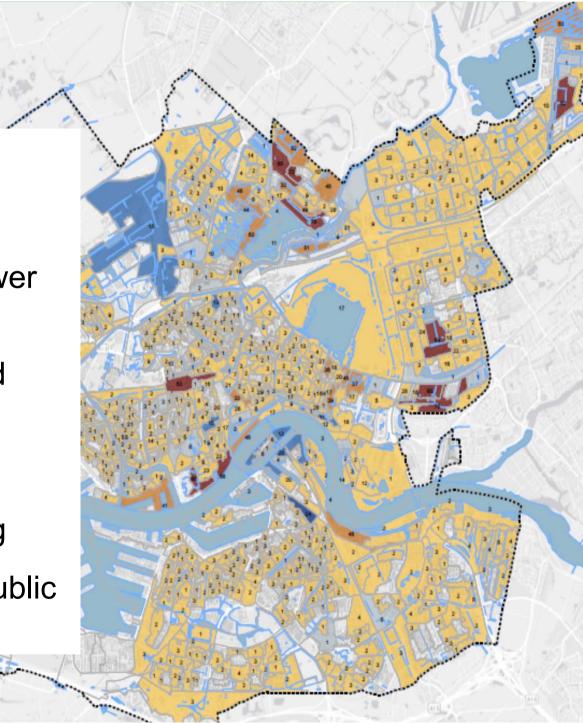
Use of the data of the past 3 years:

- Who buys an EV?
- Where is growth expected?
- When will there be charged?
- How long is the connection time?
- Charging at what speed is necessary?
- Number of EV's per charging pole?
- etc



New:

- Geographic prognosis
- Charging hubs with lower charging speeds
- Pilot Partly Time-based Tariffs (daytimes)
- Pilot Fast charging
- Pilot inductive charging
- Pilot private poles in public spaces



Buttons to adjust the businescase

- 0-scenario (28 ct/kWh)
- 25ct starting fee
- 50ct starting fee
- Stimulation Rate 30ct/kWh25ct/kWh
- Scale consumer tax rates for electicity taxes
- Charginghubs in stead of single CP

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AND Combinations of buttons

But also exploitation time (longer = cheaper)



