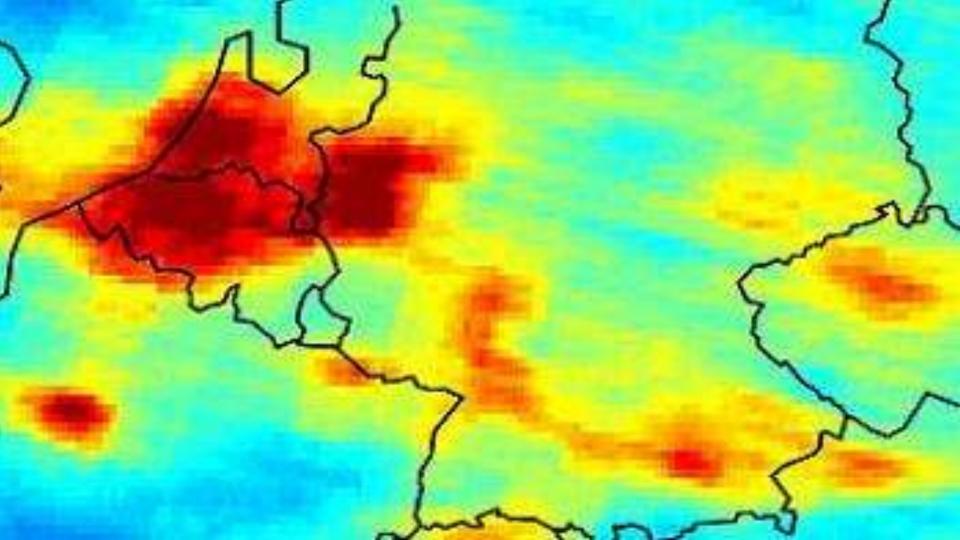


Facilitating public charging infrastructure in the metropolitan region

29 May 2018 Pieter Looijestijn



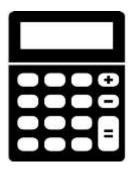
- 1. A very short history
- 2. Where we are
- 3. Where we are going?





2011

Amsterdam launches larger scale investments in public charge points



2012

National governments starts fiscal benefits for electric company cars



2013

First regional charging infrastructure investment



WHY?

Contribute to the energy transition and improve air quality

WHY regionally?

Because cars drive accross city limits

- Share knowledge & experiences
- More effective
- Tune policies

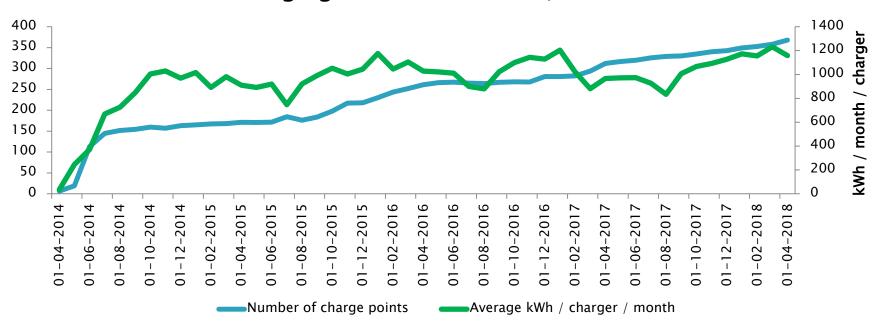
WHY government?

Public goals and boundary conditions

 Transparant, interoperable, open protocols, fits in public domain..

No mature market (yet)

Public charging in Noord-Holland, Flevoland en Utrecht



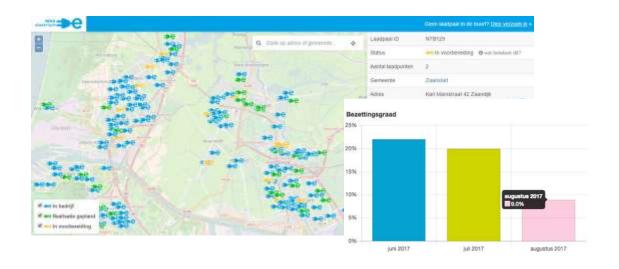
Charging infrastructure

- Procurement
- Contract management
- Guide realisation
- Problem solving
- Project & policy

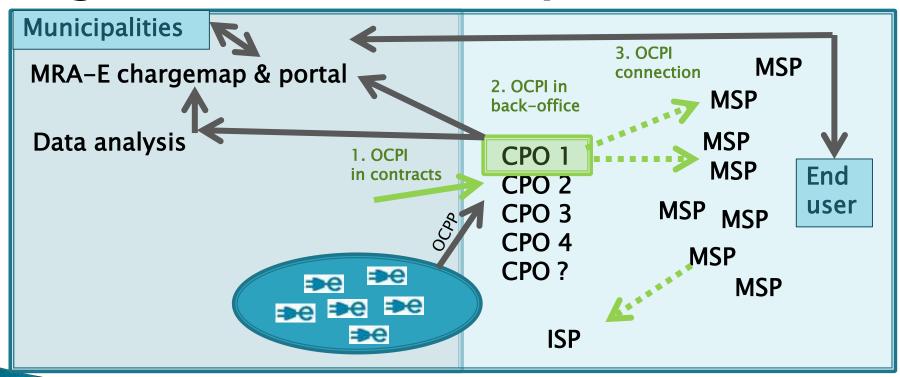




Ondersteunend materiaal voor gemeenten over elektrisch vervoer



Regional information system





- Large network
- Effective demand-driven system
- Nationally interoperable : hardware & software
- Decreasing public investments required

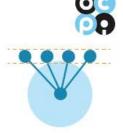
- Cross-border roaming
- (price) transparancy
- Capacity for scaling up: urban planning, grid & staff
- Attractiveness of EV for general public
 & public opinion



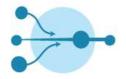




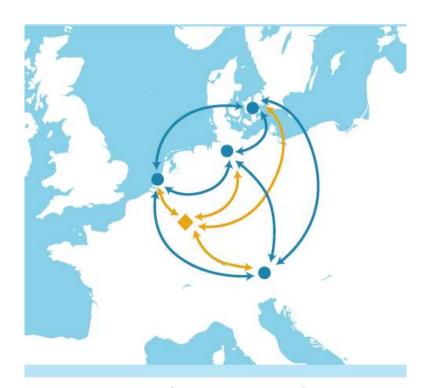
Simplify
 What information is needed
 Simplify the value chain



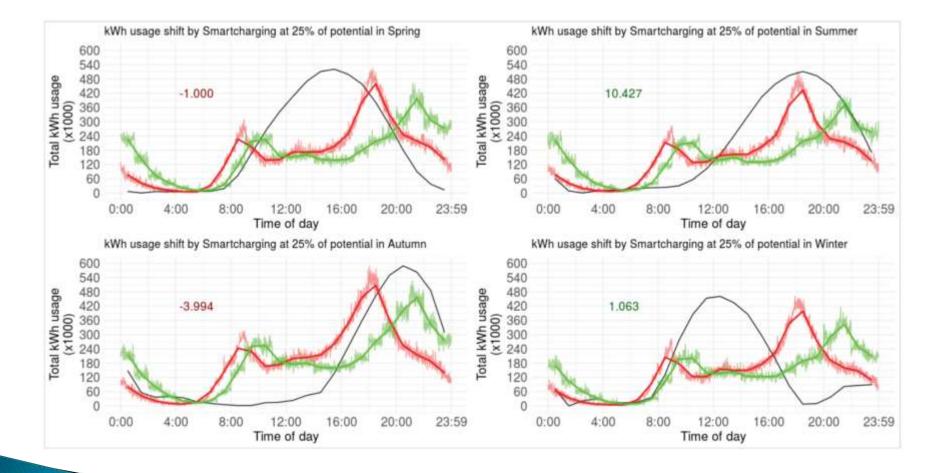
Standardize
 Standard (open)
 communication
 protocols
 Standard user
 experience



Harmonize
 Single protocol,
 datamodel
 Align legal and fiscal
 frameworks



- Regional pilot (NL, DK, GER, AUS)
- Roaming hub
- decentral connection (OCPI) (peer-to-peer)
- central connection (OCPI) (via roaming hub)



LADEN VAN ELEKTRISCHE AUTO'S BINNEN DE VVE



Versie maart 2018



