

Need new energy?

Session 18:
Alternative Fuels Directive



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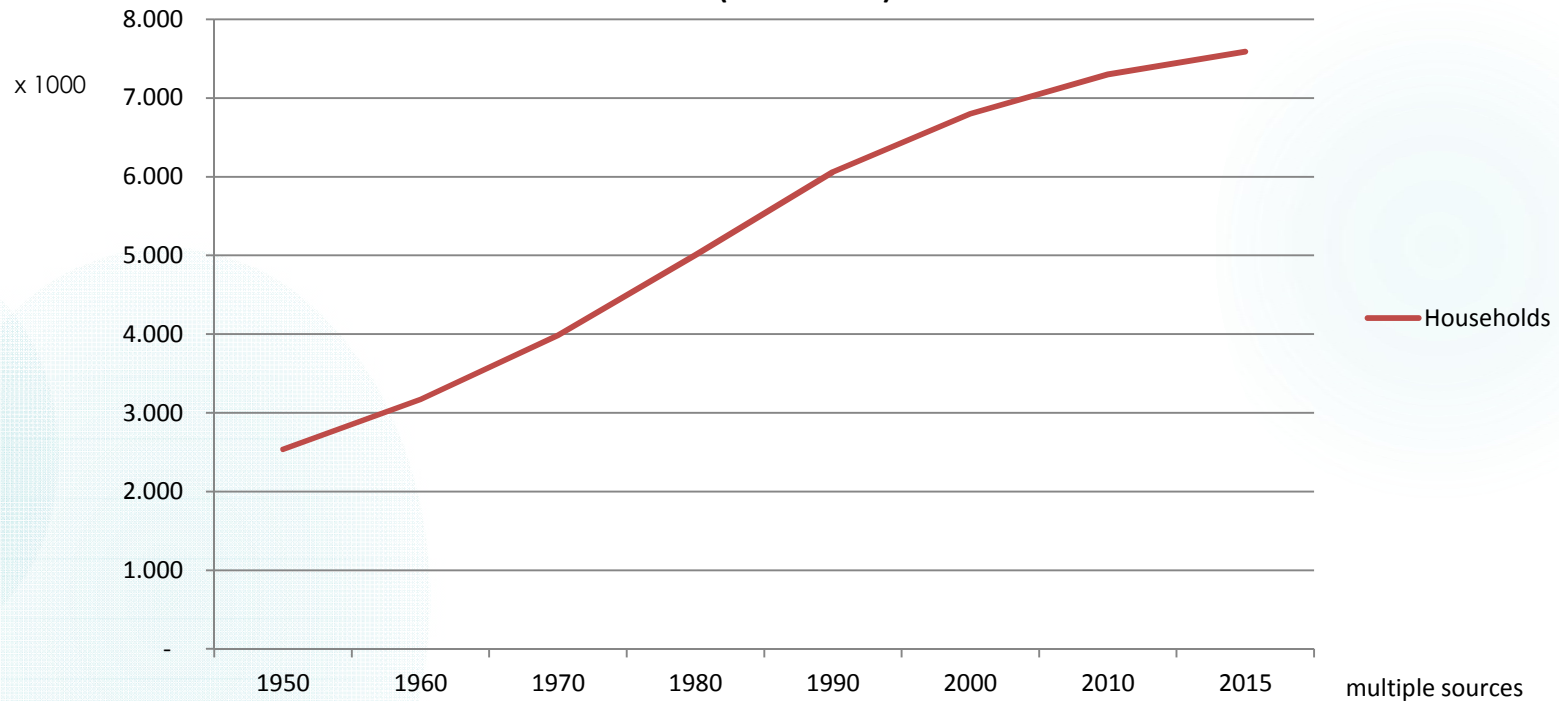
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Development of mass consumer goods

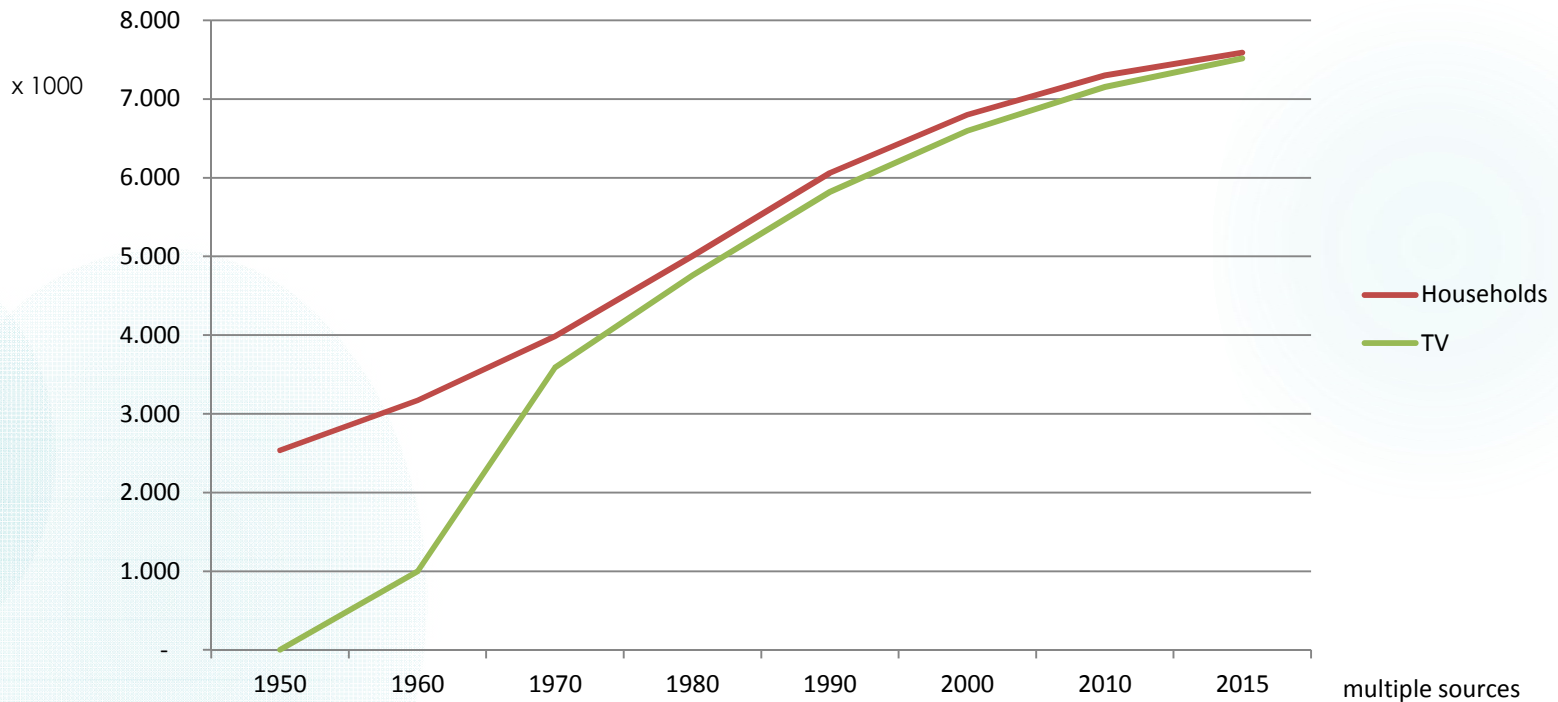
Development of mass consumer goods in the Netherlands
(1950 - 2015)



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Development of mass consumer goods

Development of mass consumer goods in the Netherlands
(1950 – 2015)



multiple sources

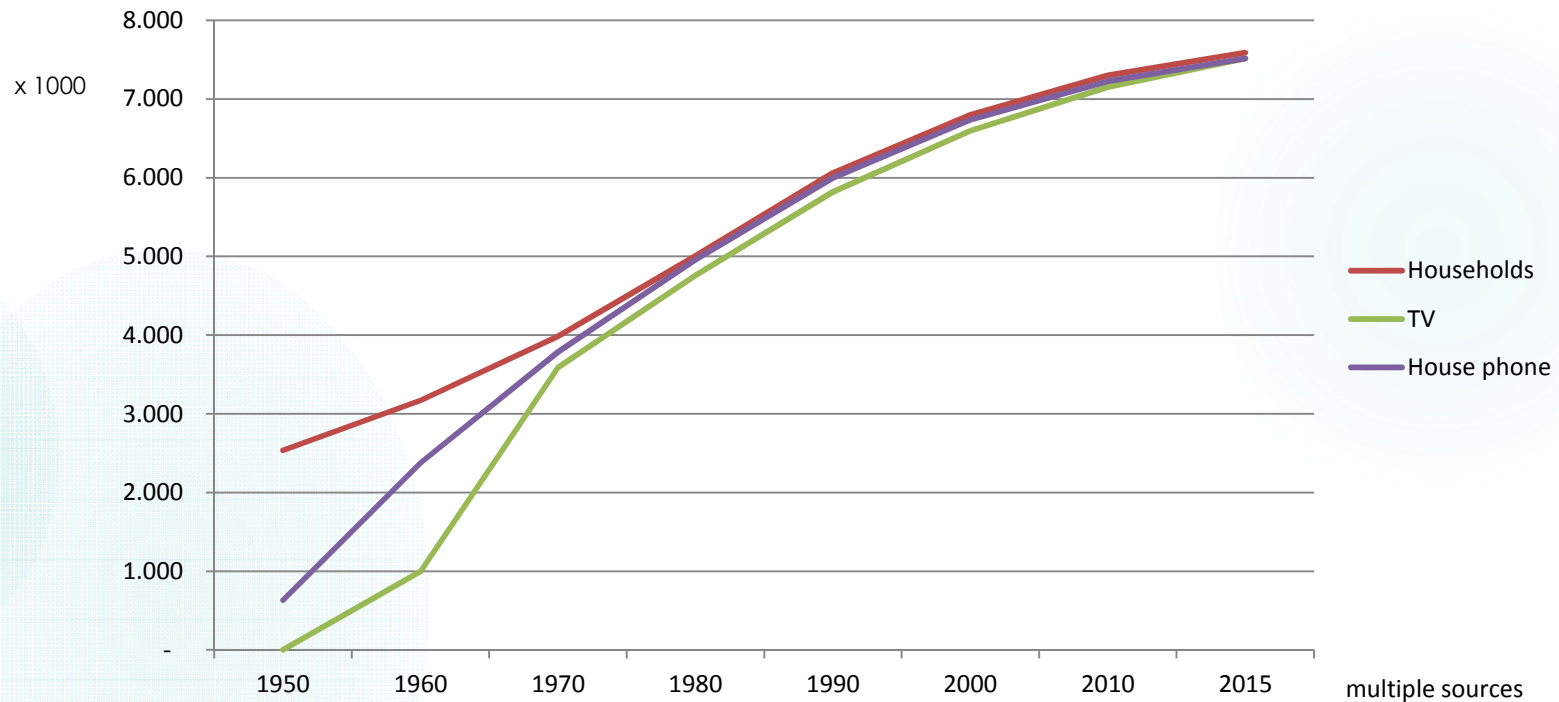


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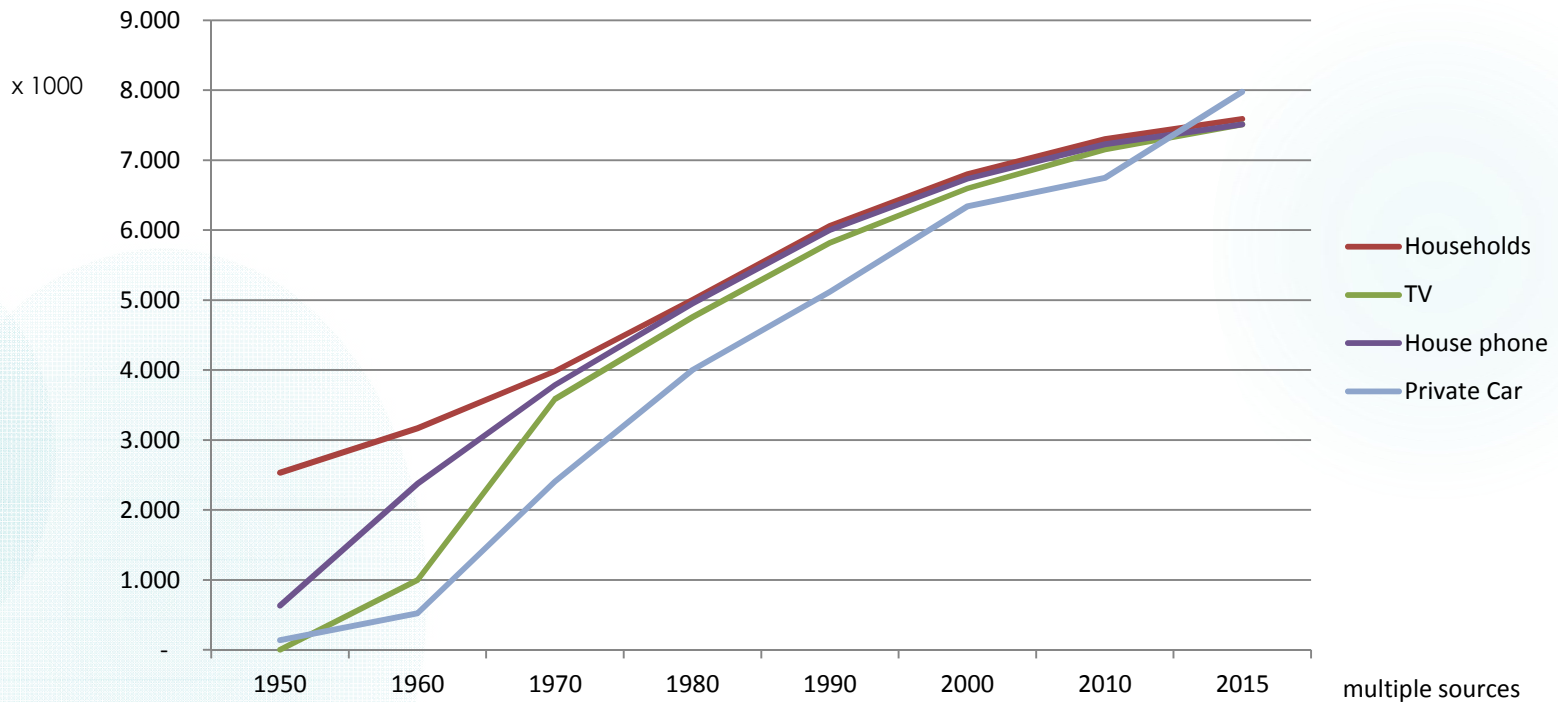
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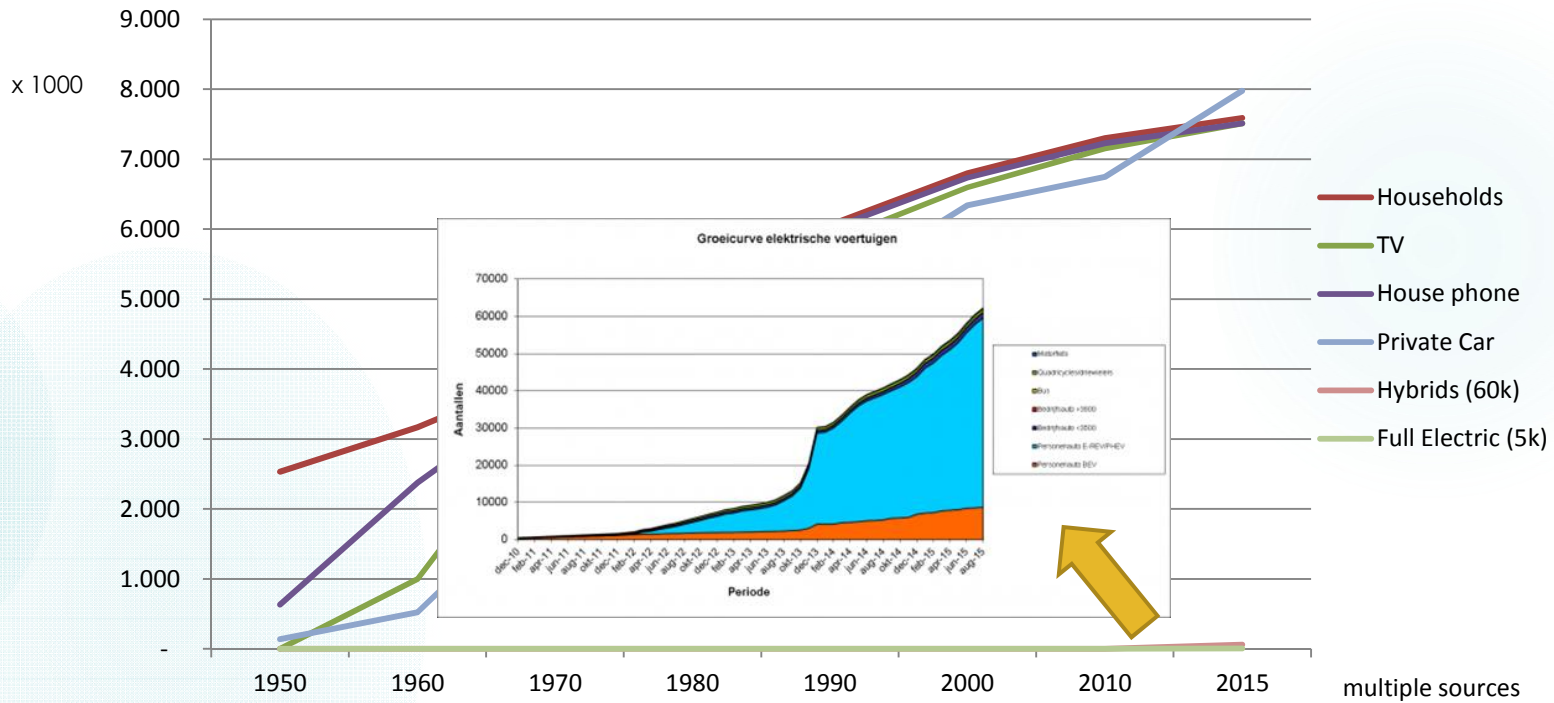


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Development of mass consumer goods

Development of mass consumer goods in the Netherlands
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Objectives of the session

- ▶ To inform participants about the Alternative Fuels Directive (Daniela Rosca – Head of Unit for Clean Transport and Sustainable Urban Mobility)
- ▶ To update on the status of implementation of alternative fuels deployment and electrification (Bert Witkamp – Secretary General of AVERE European Association for Electromobility)
- ▶ Interactive discussion:
 - Experiences of national level implementation
 - Experiences and implications of local implementation
 - Links to the development of Sustainable Urban Mobility Plans

1. **Write down your question about the Alternative Fuels Directive**

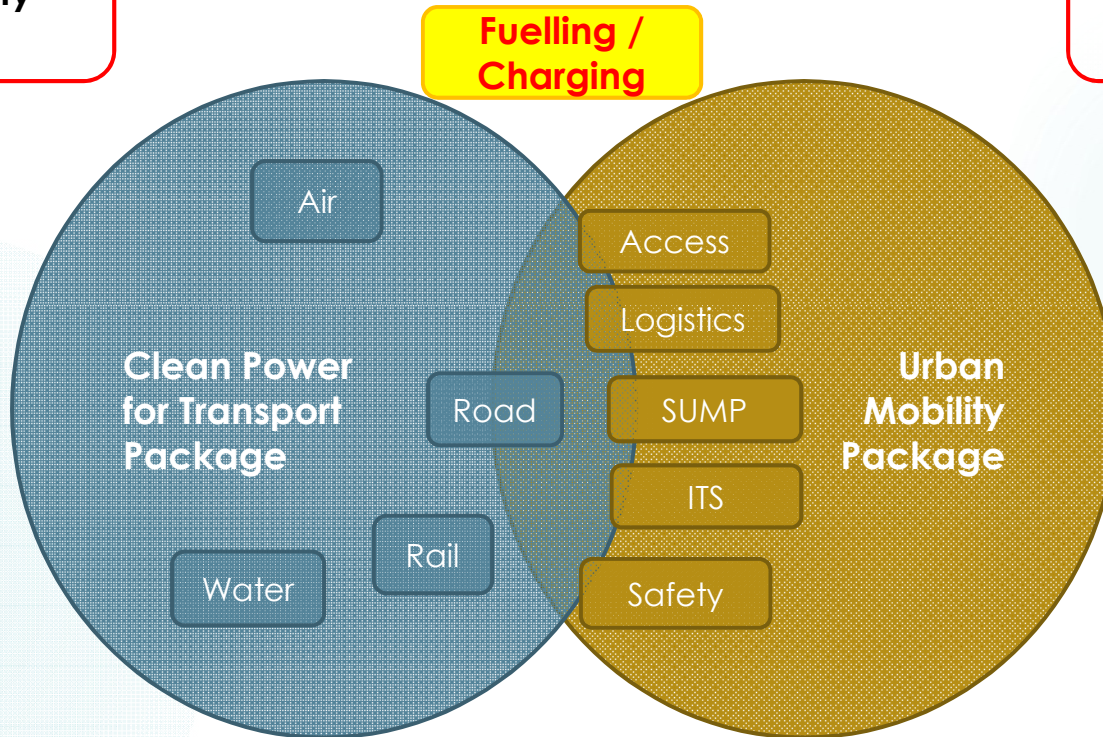
2. **Complete these statements in your own words:**

- ▶ **“Alternative fuels will help to improve mobility in my city, because ...”**
- ▶ **“Challenges for integrating alternative fuels in urban mobility are ..”**

Phase out conventionally fuelled vehicles from cities

Clean Mobility

Smart Mobility

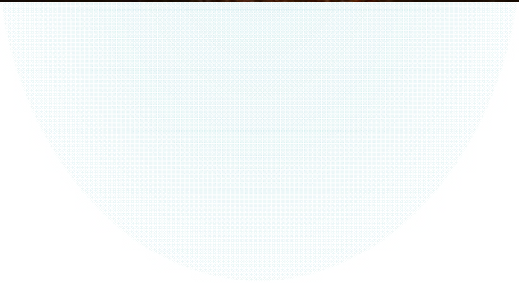
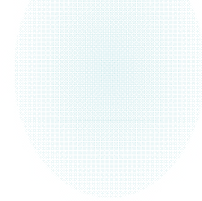


Smart Energy



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Conventionally fuelled



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Alternatively
fuelled



Alternative fuels will help to
improve urban mobility in my city,
because:

.....



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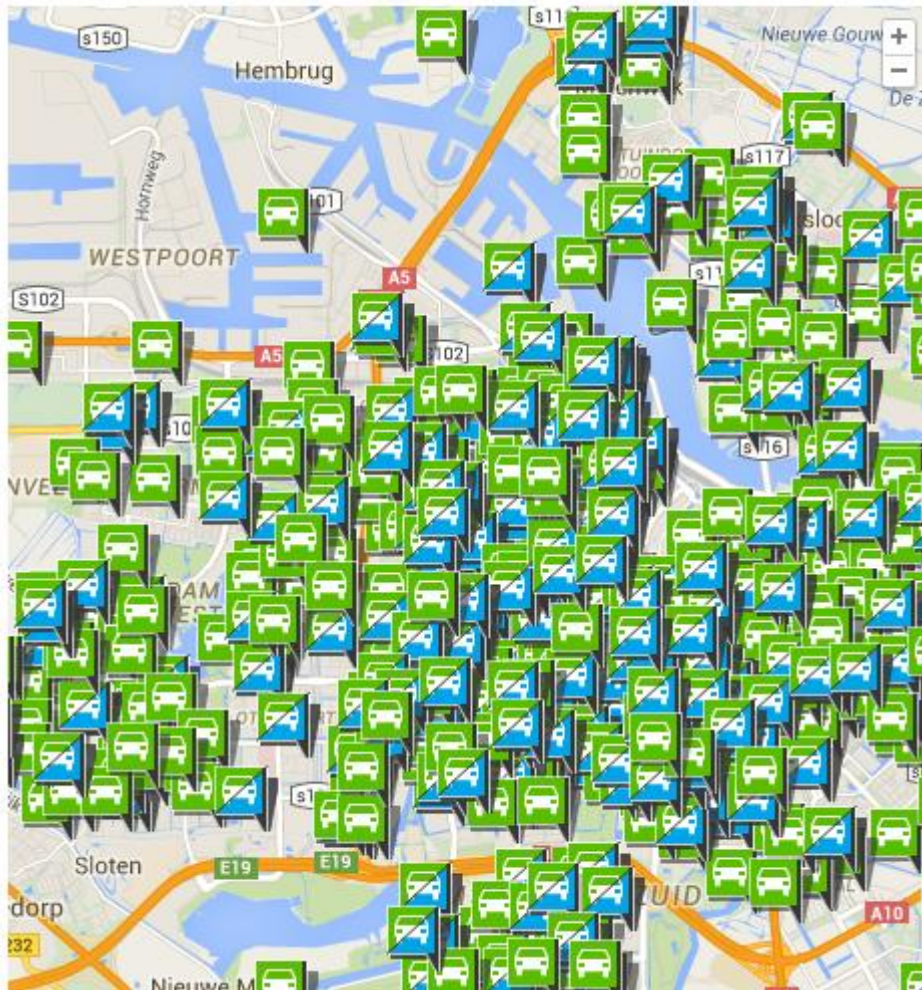
Alternative fuels will help to improve urban mobility, because:

- ▶ Local air quality can be improved (mainly Pm and No_x)
- ▶ CO_2 emissions (well to wheel) can be reduced
 - especially when electricity is generated from CO_2 neutral sources
- ▶ Oil dependence can be reduced
- ▶ Electric vehicles can be integrated in the urban (energy) system (local storage)
- ▶ It paves the way for further automation of vehicles?
 - Distance parking etc
 - Electric vehicles could become 'horizontal elevators' (e.g. Kavalir)
- ▶ Electric vehicles can be smaller in the future?



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A desired future for urban mobility?



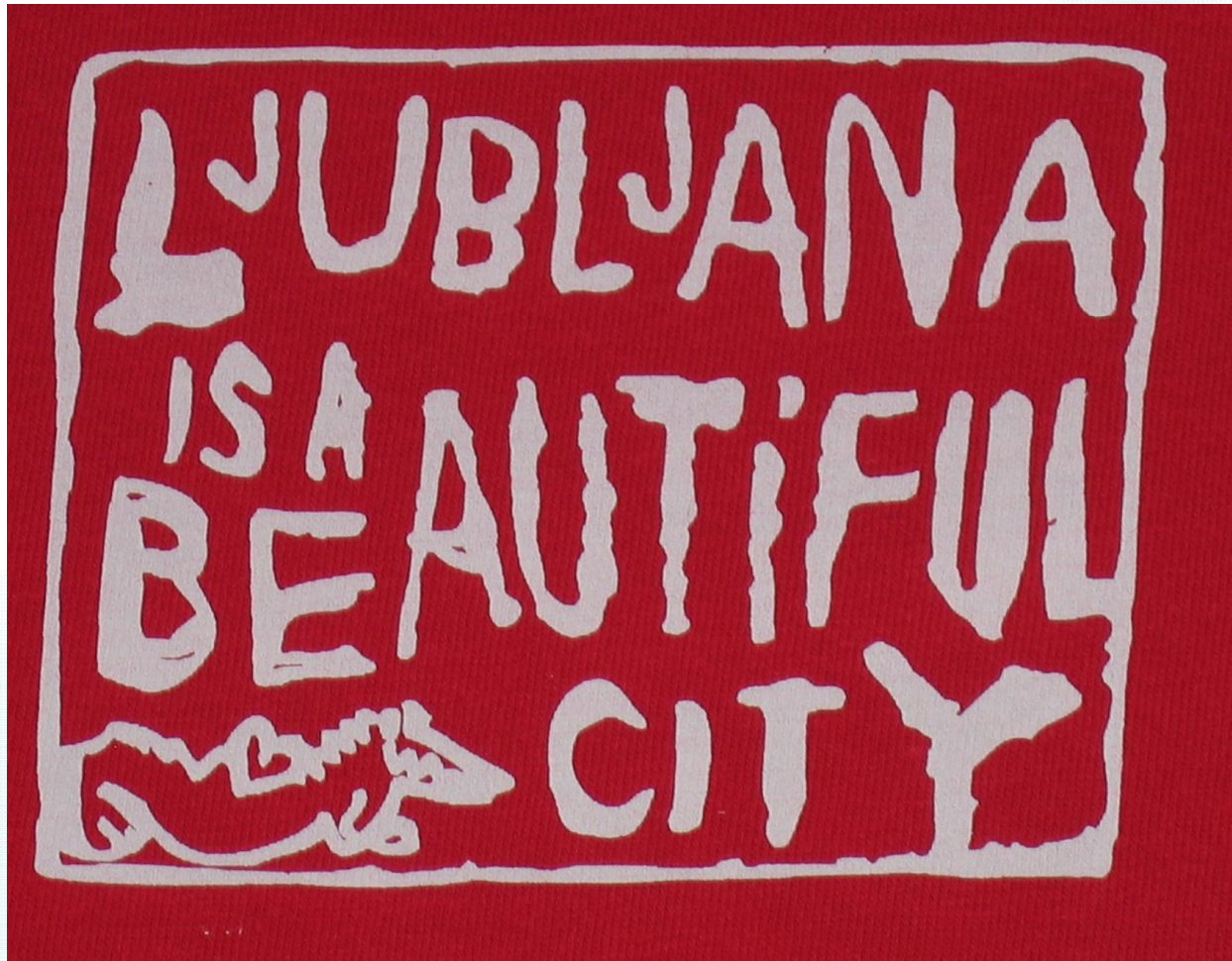
Challenges for integrating
alternative fuels in urban mobility in
my city are:

Challenges for integrating alternative fuels in urban mobility:

- ▶ **How to avoid an increase in usage of private (electric) vehicles in urban areas?**
 - EV = short distance, Urban = short distance → EV = urban
 - Free parking /charging / using of bus lanes
 - Implementation of charging points: where to put them? (charge & ride)
- ▶ **How to take advantage of the strong trend towards 'using' in stead of 'owning' vehicles in urban areas?**
 - Smart organisation of mobility in urban areas: public transport and cycling/walking preferred modes above private car use (EV and conventionally fuelled)
 - "Mobility as a service" requires more than putting another fuel in the tank
- ▶ **How to decrease road space used for mobility in (dense) urban areas?**
 - 20 – 25% of space is used for infrastructure (moving & parking)
- ▶ **How to ensure a safe mobility system?**
- ▶ **Where does the energy come from?**



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Thank you!

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