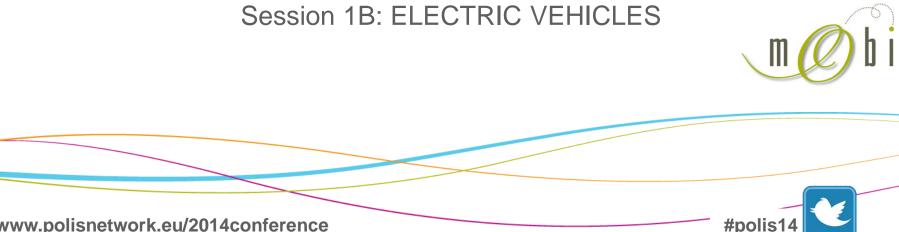


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# Living Lab, tool for fire starting attitude change?: Study of ex-post attitude & purchase intention.

### Sylvia Heyvaert Vrije Universiteit Brussel, research group MOBI



www.polisnetwork.eu/2014conference

## Flemish living Lab Electric Vehicle 2011-14

### **Living Labs** for **user-driven** open innovation

AN OVERVIEW OF THE LIVING LABS

= open innovation environment in real-life settings, in which user-driven innovation is fully integrated within the co-creation process of new services, products and societal infrastructures.

Vicomse Proeftuin

Elektrische

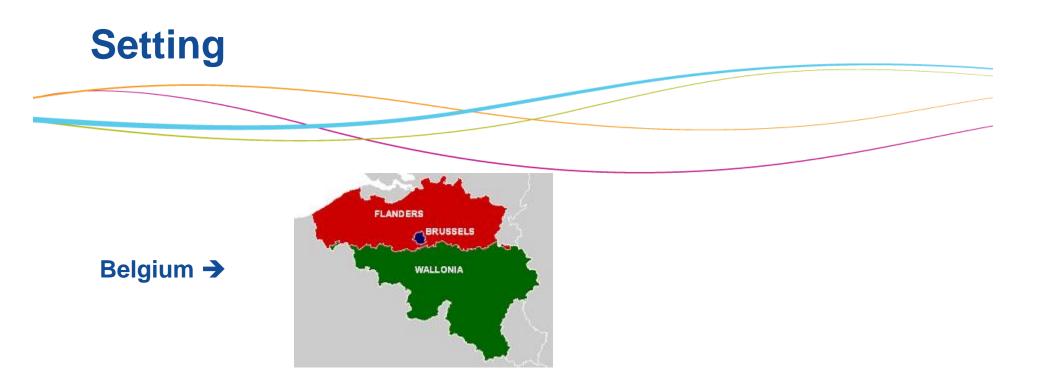
Voertuigen

http://www.proeftuin-ev.be/



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- Flat roads
- Mean travel distance/day = 39,52 km (Flanders)
- **Car use: 48% of all trips < 40 km**
- **3**,4 milj private garages, parking's and drive ways





# iMove - platform

B2B population: fleet and company cars

Cities/communes: fleet cars and specific use

## B2C population: private persons



• 50 cars

193 users

- March 2012 . March 2013
- 4 groups
- 10 weeks
- Daily family use
- Different vehicle brands



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#### **Data collection**

- Pre-survey
- **Travel diary via smartphone**
- Post-survey
- Logging car
- **Logging charging post: private pole MODE 3**



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# Facts and Figures

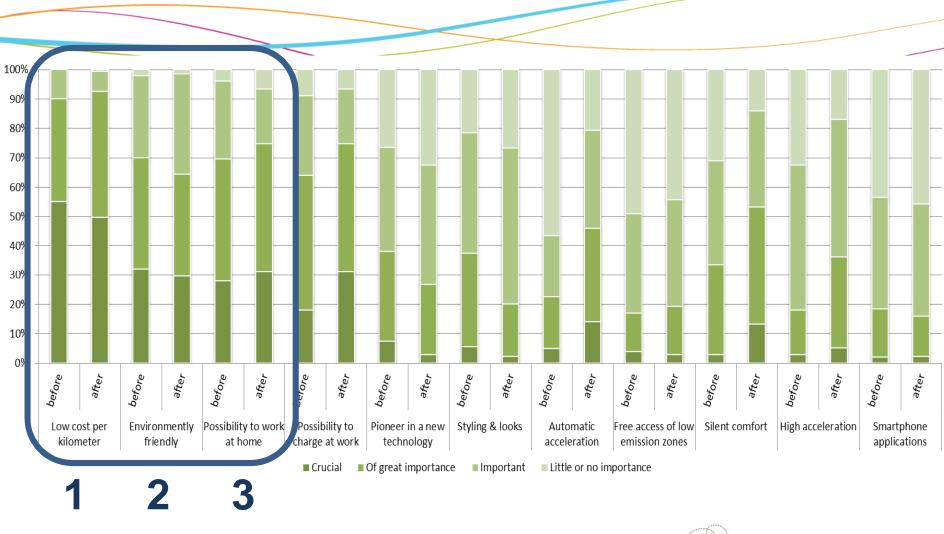
	Total	Week days	Weekend days
# trips	40.125	30.481	9.644
Total distance	369.815 km	284.460 km	85.356 km
Mean distance /trip	9,22 km	9,33 km	8,85 km
Max distance on 1 day		218 km	219 km
Mean distance/day	24,7 km	26,3 km	20,4 km



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## Importance of EV advantages

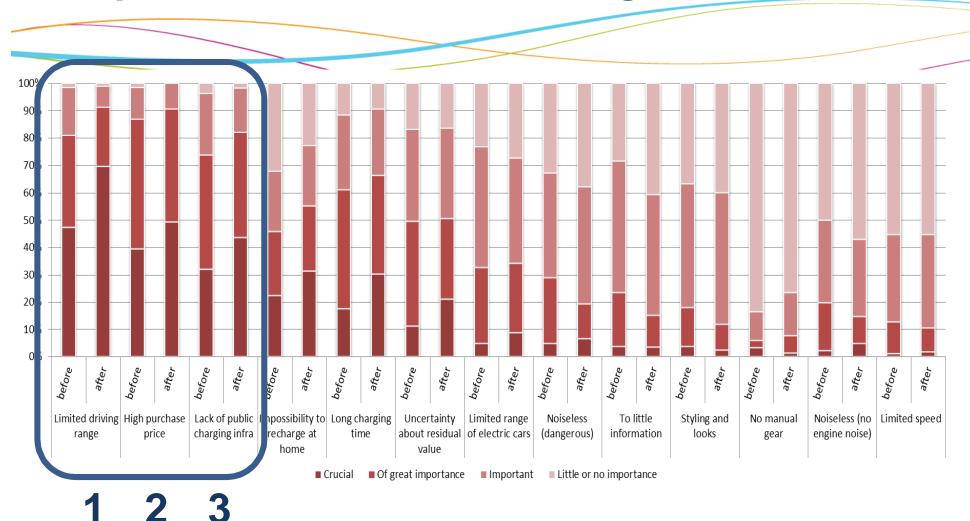




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## Importance of EV disadvantages





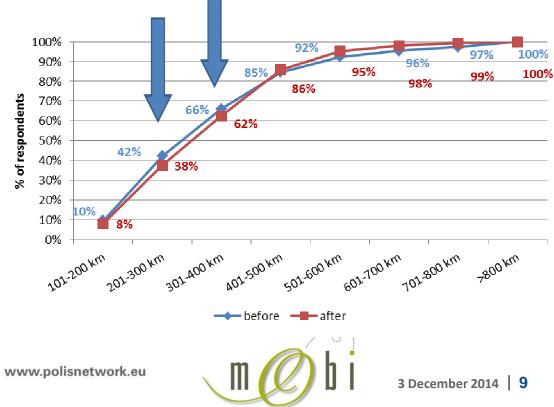
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## **Electric range** - preferred





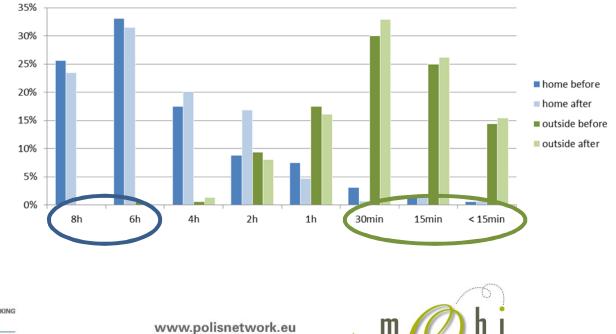






At home

#### Alongside the road

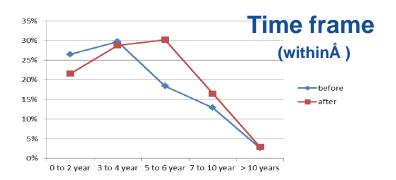


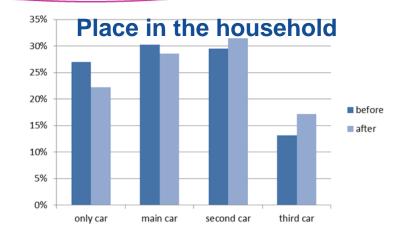


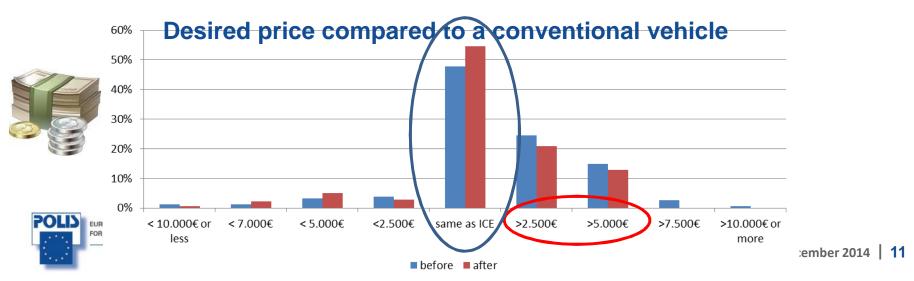
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## **Purchase intention**

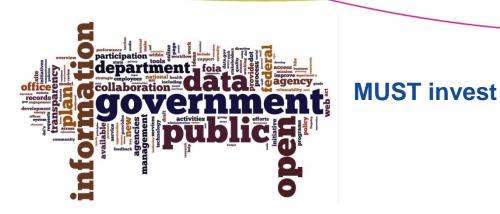
#### **2** 93% is willing to purchase EV







# **Role of government**



- **1. Standardisation of charging infrastructure**
- 2. Installation of public fast chargers



- 3. Tax incentives for EV purchase
- 4. Exemption of registration and road tax









- **5 testers out of 132 (4%) bought an EV** (Nissan Leaf, BMW i3, Renault Fluence)
  - Tax aspect
  - Environmental aspect

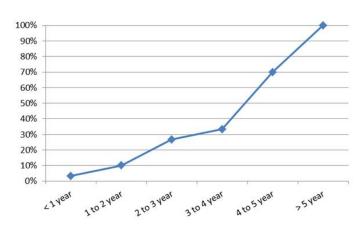
#### **23% of non-buyers still willing to purchase**

Convincing factor	Top 1
environmental friendly	40%
low cost per kilometer	37%
Silent comfort	7%
pioneer in a new technology	7%
possibility to charge at home	3%
automatic acceleration	3%
possibility to charge at work	3%



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# Conclusion

**I** Living Labs => create awareness, publicity, free PR

 Range and price remain major stumbling blocks BUT which has to which should be tackled first?
Golden driving range: up to 300 km !!!!

#### **Government should play active role via**

- Positive tax incentives for EVs for companies AND private persons
- Deployment infrastructure







# Thank you for your attention!





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