Introducing shared electric car fleets: case studies from project eBRIDGE.





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http://www.ebridge-project.eu



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Introduction



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eBRIDGE - Urban Mobility 2020: empowering electric fleets in European cities

Mobility is a universal need and a driver of economic development. European cities have to allow for thousands of people and goods moving in and around them on a daily basis, making urban life an exciting, but challenging experience. Traffic jams, bad air quality, noisy environments and constant delays are part of our common routines as urban dwellers, clearly reducing quality of life and increasing our costs. But in eBRIDGE we think there are smarter ways to move around cities, and we call them Urban Mobility 2020.





http://www.ebridge-project.eu

AIMS:

Engage fleet managers and car users with electric mobility

•Help key actors with the **implementation** of electric vehicles in their fleets

•Reach **decision makers** at companies, local authorities, and institutions interested in introducing electric vehicles to their fleets and/or starting an electric fleet.

•Make car users more **confident** in the use of electric vehicles and introduce electric mobility in their daily travel.



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NEED FOR MONITORING!!!





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Common issue with policy and interventions:

Little or no monitoring, Little or no follow up

Cannot judge effectiveness of intervention!



COSTS SAVINGS



2019 CERIDGE





VIDEO









Overall attitude towards EVs - users vs non users



IMPROVED EXPERIENCE



General experience with the vehicle - 2013



I'm Driving Electric!



© I can go to most places in Carmarthenshire: most recorded trips are over 40 miles without recharge. Our record holding trip is 70 miles!

© Trips cost less so the Council can use funds where needed.

Car is charged at the car park - no need for petrol station trips.

© Electric cars are more fun to drive!

No exhaust - no local pollution

Quiet and Quick!



Next time consider Driving Electric! c



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Carmarthenshire: most recorded trips
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Normative messaging incl. emails



ATTITUDE CHANGE

Negative(-3)

Berlin (no data)

-2

-1

Bregenz Carmarthen



0

1

Lisbon

2

Valencia

Positive(3)

Vigo

Overall attitude towards EVs - 2013



Normative messaging incl. emails





Overall attitude towards EVs - email intervention

PBRIDGE



Employees who have used Pool Cars per Quarter







FINDINGS

(a) potential for further use and expansion of EVs is **positive**;

(b) mitigating **cost** would **decisively** help EV adoption;

(c) EV use is more likely to remain in **cities** or **limited geographic areas**, due to limited battery range and recharging infrastructure;

(d) infrastructure needs to be **interoperable** -not all types of charger can serve all types of EV currently;

(e) psychologically informed **interventions** can have small but tangible effects on user perception of Evs

(a) + (b) + (c) suggest that viable EV solutions should involve:

- *shared* (rather than private) ownership of EVs;

- in areas with *dense recharging infrastructure* (e.g. cities) rather than areas with sparse recharging network;

- for **personal or very light goods/equipment** (rather than heavy goods/equipment) transport.



FINDINGS

EVs are **not 'one size fits all'** vehicles, but operate better within targeted uses;

Car sharing schemes are necessary if EV use is to be broadened and increased in the short- to mid-term;

Individual ownership is hampered by **high costs**, and this is likely to continue in the future.



OUTPUTS

•eBRIDGE Start Up Kit: Guidelines + Toolkit to assist key actors with the implementation of EVs in their fleets, and optimise measures to increase overall performance.

•Increased number of decision makers at companies, local authorities, institutions and further stakeholders interested in introducing EVs to their fleets and/or starting an electric fleet.

•Improved attitude towards electric mobility: car users were be more confident in the use of EVs and introduce electric mobility in daily travel decision-making.

•More free materials, videos and reports at http://www.ebridge-project.eu



Thank You for your attention.





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