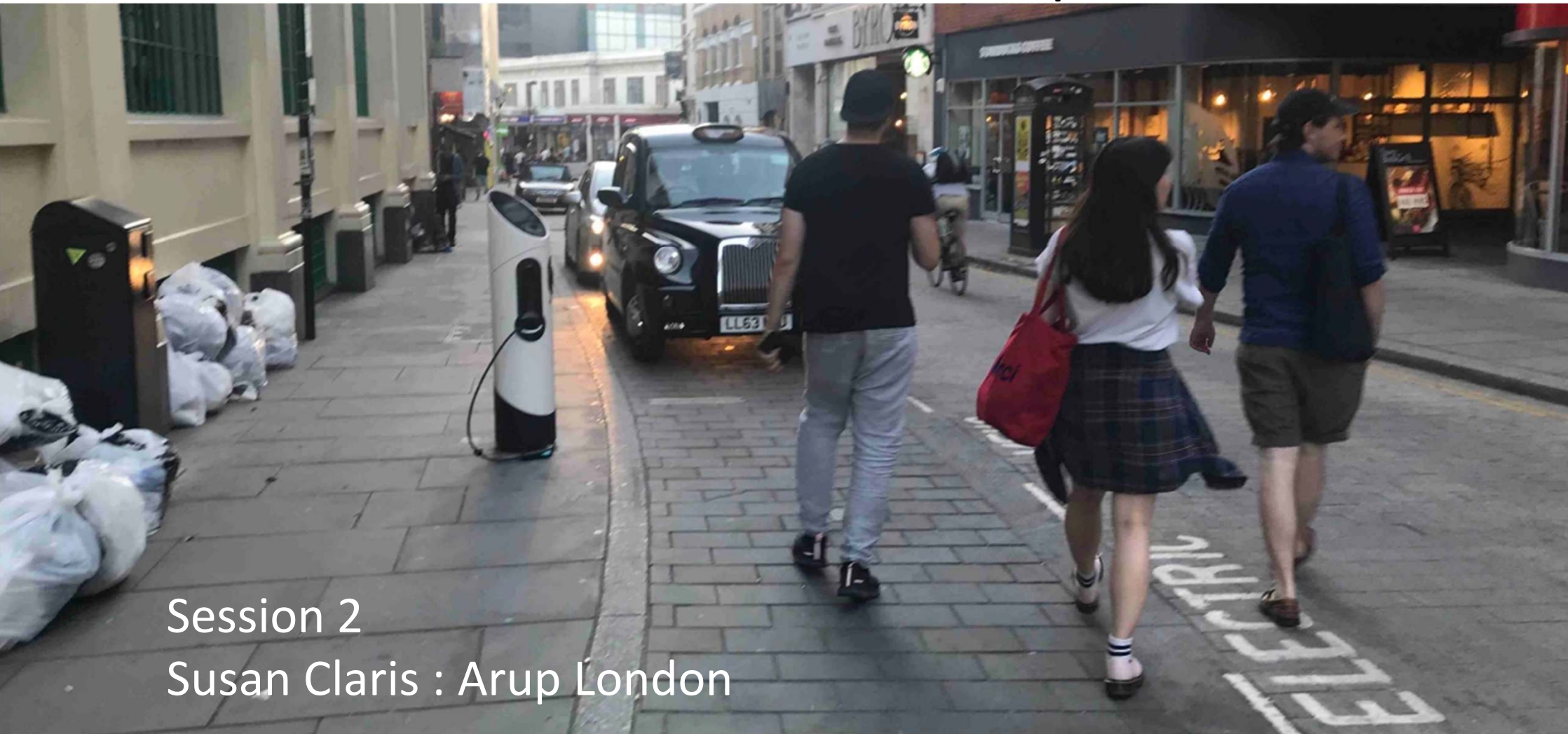


Electric Vehicles : Infrastructure and Impact

#EVimpact



Session 2
Susan Claris : Arup London

London Living Streets Urban Design Group

ARUP

ReCharge Parklets

Susan Claris

London Living Streets

Electric Vehicles – Infrastructure and Impact

11 October 2018

The Guardian 4 May 2018

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Walking the city
Cities

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Laura Laker
Fri 4 May 2018 06.00 BST

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This article is over 4 months old

Highly charged: complaints as electric car points block city pavements

In the rush to accommodate increasing numbers of electric cars, some cities are letting bulky charging stations take space from pedestrians



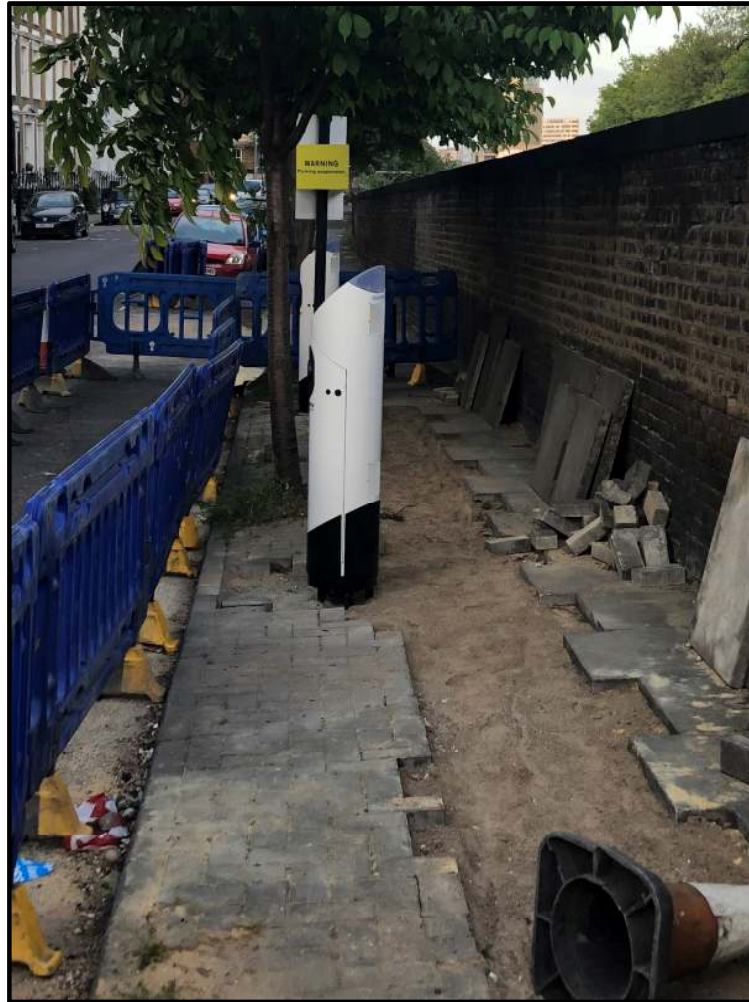
▲ An electric car charging point blocks a pavement in London. Photograph: Laura Laker

Cities across the world are rushing to install charging points to encourage and keep up with demand from increasing numbers of electric vehicles. By the end of last year there were almost 600,000 street charging points globally.

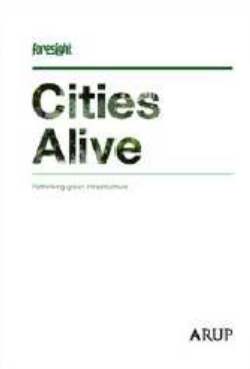
But while some cities, such as Paris, are introducing charging points inconspicuously, many others are not. In some areas of London chargers have been taking over pavements and blocking pedestrians.

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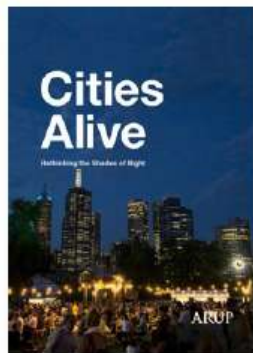
And then it got personal 17 May 2018



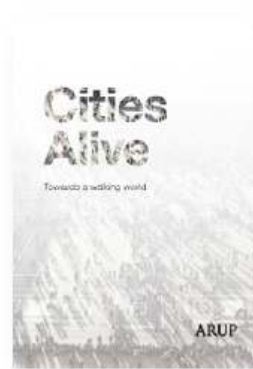
Cities Alive



Rethinking green
infrastructure
2014



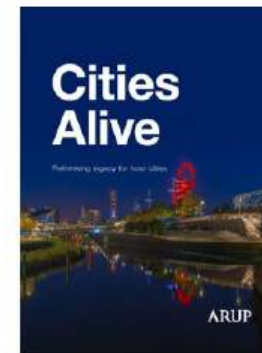
Rethinking the
shades of night
2015



Towards a
walking world
2016



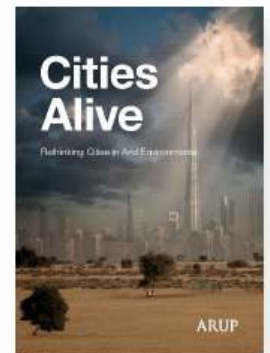
Green Building
Envelope
2016



Rethinking legacy
for host cities
2017



Designing for
urban childhoods
2017

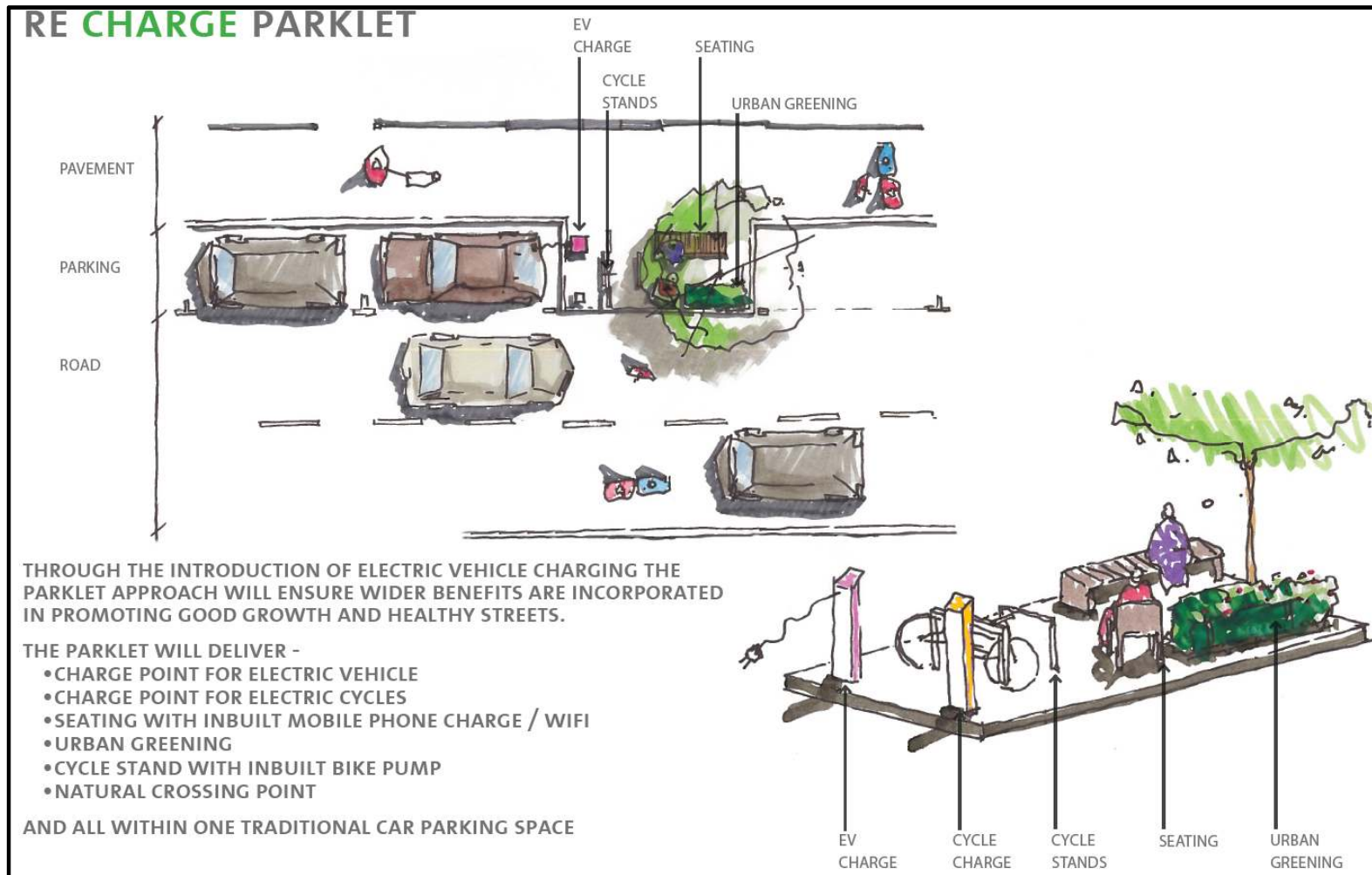


Rethinking cities in
arid environments
2018

Parklets



ReCharge Parklet late May/early June 2018



Cycle City, Active City Manchester, 28/29 June 2018



Cycle City, Active City Manchester, 28/29 June 2018



Meanwhile..... September 2018



@mum_on_bike 11/9/18



@johnstreetdales 24/9/18



www.arup.com/walkingcities

susan.claris@arup.com



@susanclaris

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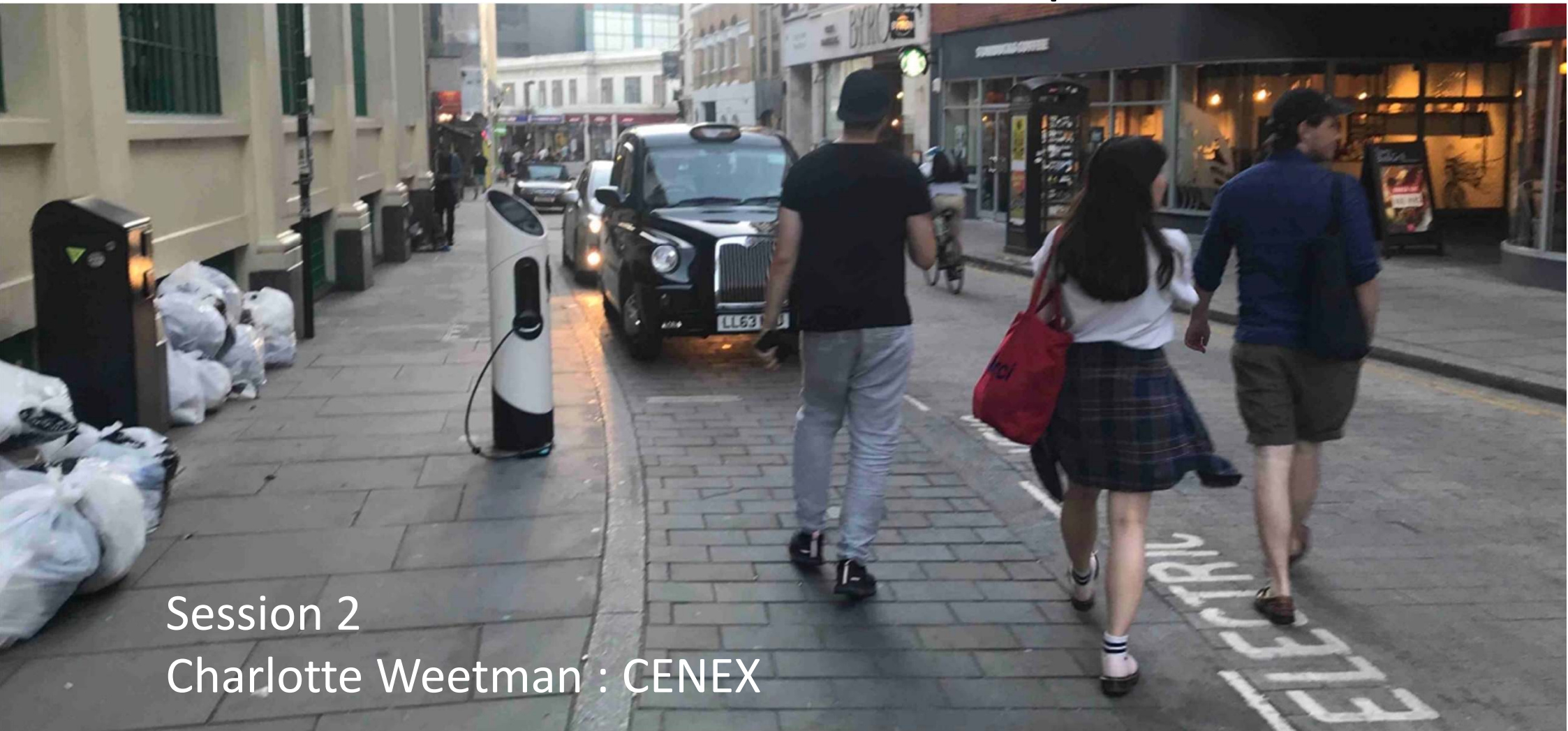


Session 2
Samantha Tharme: City of London

London Living Streets Urban Design Group

Electric Vehicles : Infrastructure and Impact

#EVimpact



Session 2
Charlotte Weetman : CENEX

London Living Streets Urban Design Group



Climate-KIC



cenex

InclusivEV; new market for electric car sharing

Charlotte Thiery Weetman

Programme Manager Electric Mobility

Charlotte.Thiery-weetman@cenex.co.uk





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Electric cars too expensive?

Renault Zoe cost £25,000



Electric 4p mile

Renault Clio cost £15,000



Petrol 13p mile

Total ownership cost reduces the more the vehicle is used



Challenge

- Low income
- Illegal levels of pollution
- Old cars
- Poor public transport



The opportunity

- 30% of the average European city is high density and low income.
- 45 million households high density and low income
- 30% penetration = 54,000 vehicles and annual revenue of €700 million
- CO2 saving (well-to-wheel) of 150,000 tonnes and Air Quality improvements



Project Overview

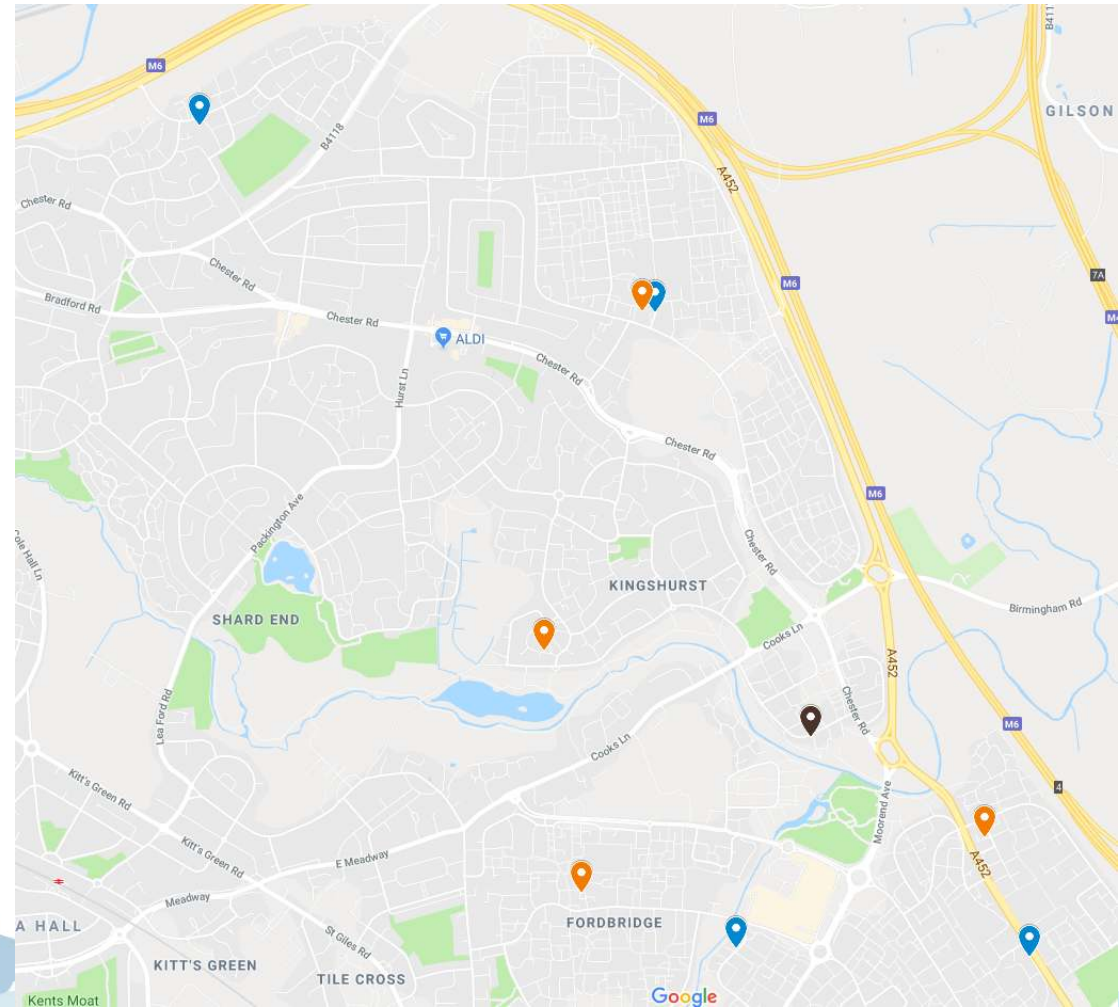
- €1.8m EIT Climate KIC and
- €2m private investment from ECar
- 3 year project

Proving investment model and communicating to investors and car share operators



Birmingham

- 2-4 cars per hub
- 1,000 homes within 500m
- 10,000 driver without a car
- V2G investment from UK Govt.
- Challenges for project deployment



New Innovations

Pay as you go – empowering low income service users

Real time state of charge – confidence in vehicle range

Mobility as a Service - integration with public transport

V2G – delivering additional value when car not being driven

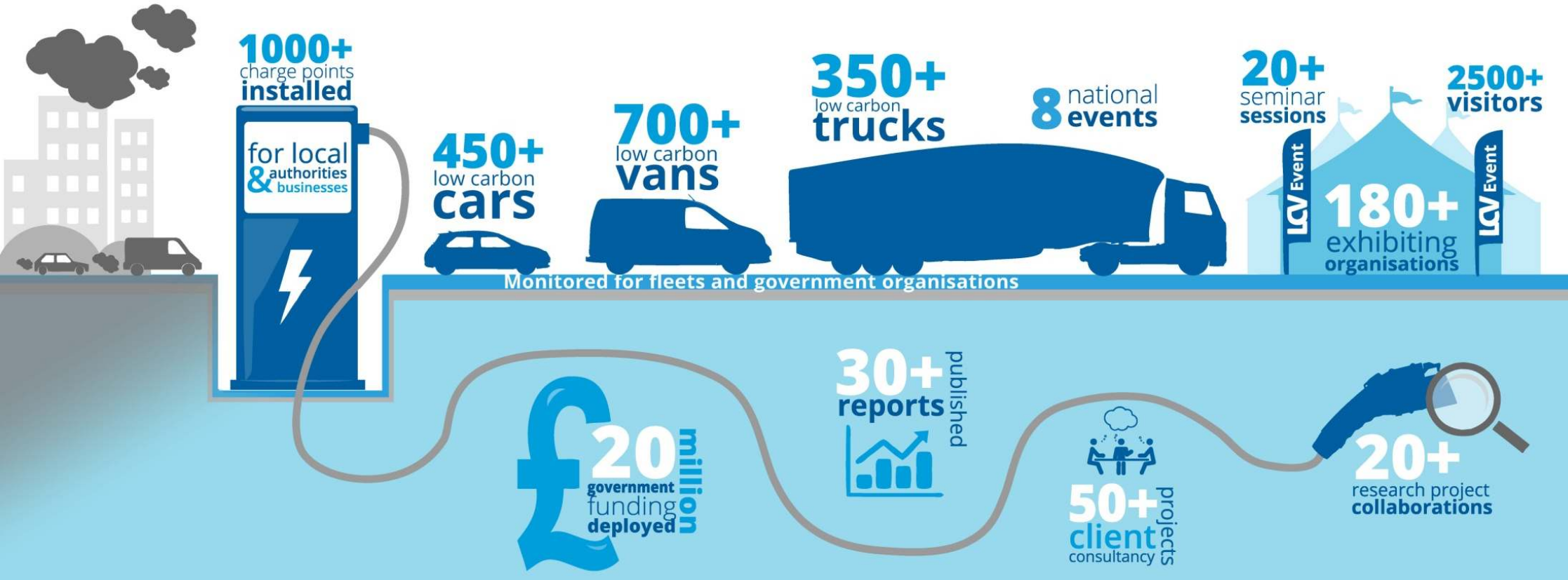


Thank you for listening

Charlotte Thiery Weetman

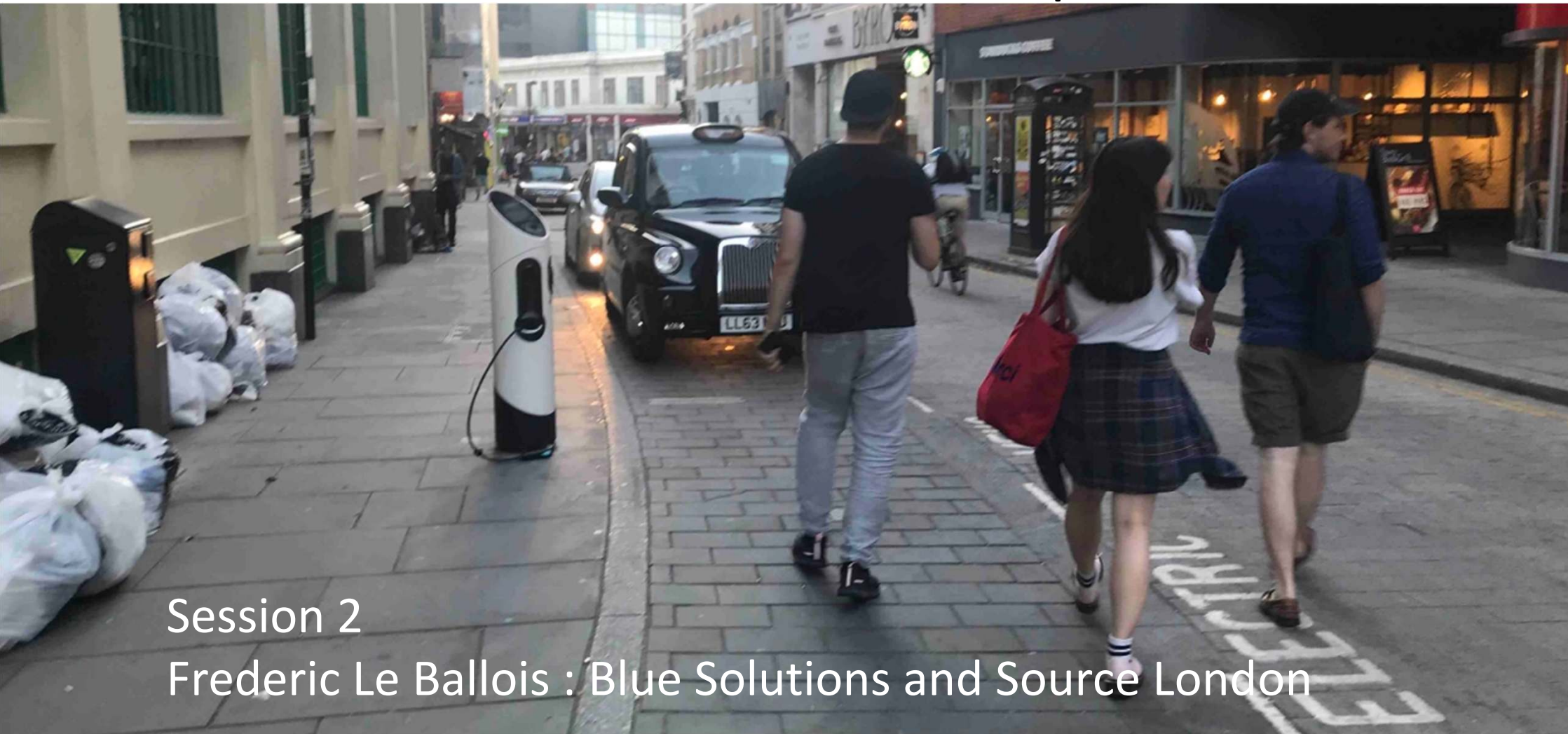
Programme Manager Electric Mobility

Charlotte.Thiery-weetman@cenex.co.uk



Electric Vehicles : Infrastructure and Impact

#EVimpact



Session 2

Frederic Le Ballois : Blue Solutions and Source London

London Living Streets Urban Design Group

EV infrastructure optimisation

Fred Le Ballois – Project Manager

27/09/2018



Source London and Bluecity

Source London aims at encouraging people to switch to EV by:

- Providing Reliable infrastructure.
- Providing in app charge point booking facility.
- Offering 24/7 support to members.



Bluecity aims at encouraging people to experience EV by:

- Offering an affordable trial infrastructure.
- Making it easier for people to understand whether they can go electric.

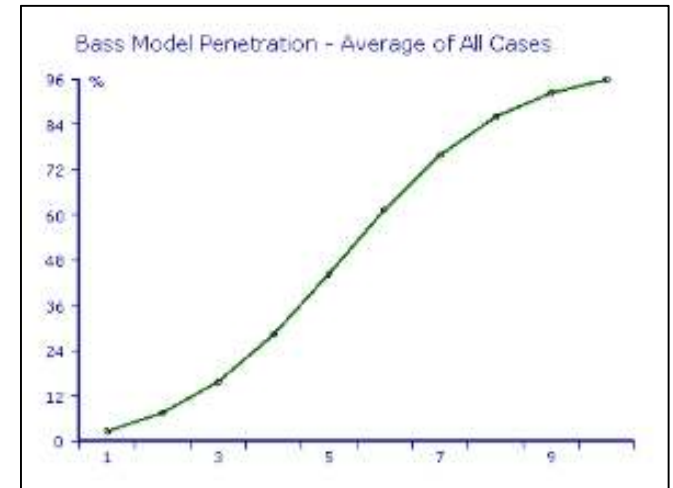
Source London is committed to facilitate the switch to electric mobility

An EV car club can work

1 car club vehicle removes around 10 cars from the road.

So If this car club

- Was electric
- Run on green energy electricity
- Was visible to all
- Was convenient and affordable
- Was sharing existing charging infrastructure



Electric Vehicles : Infrastructure and Impact

#EVimpact



Session 2
Oli Freeling-Wilkinson, Urban Electric

London Living Streets Urban Design Group

urban | electric

urban residential electric vehicle charging

Oli Freeling-Wilkinson | Keith Johnston | October
2018



the team



Oli Freeling-Wilkinson
Co-Founder

Former racing driver and investment banker, cofounded Big Data FinTech company Knowsis (acquired in 2016 by a hedge fund).



Keith Johnston
Co-Founder

15 years experience in electric vehicles, launched the G-Wiz electric car, selling 1000 electric vehicles in London between 2004 and 2008.



Future hire
(Autumn 2018)

The team will be enhanced by an experienced executive who has founded and exited an electric vehicle charging company.

the mission

facilitate the switch to electric vehicles
**without negatively impacting
urban spaces**

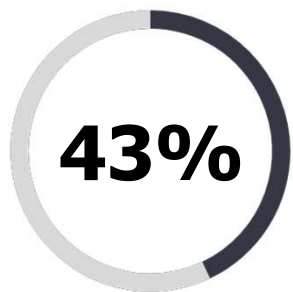
but... there is an **unsolved barrier** to
electric vehicle adoption

**90
%**

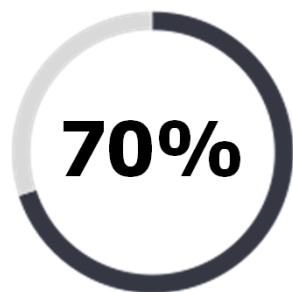
**of EV charging
takes place at
home**

[EVFleetWorld](#)





**of UK
households
park on-street**

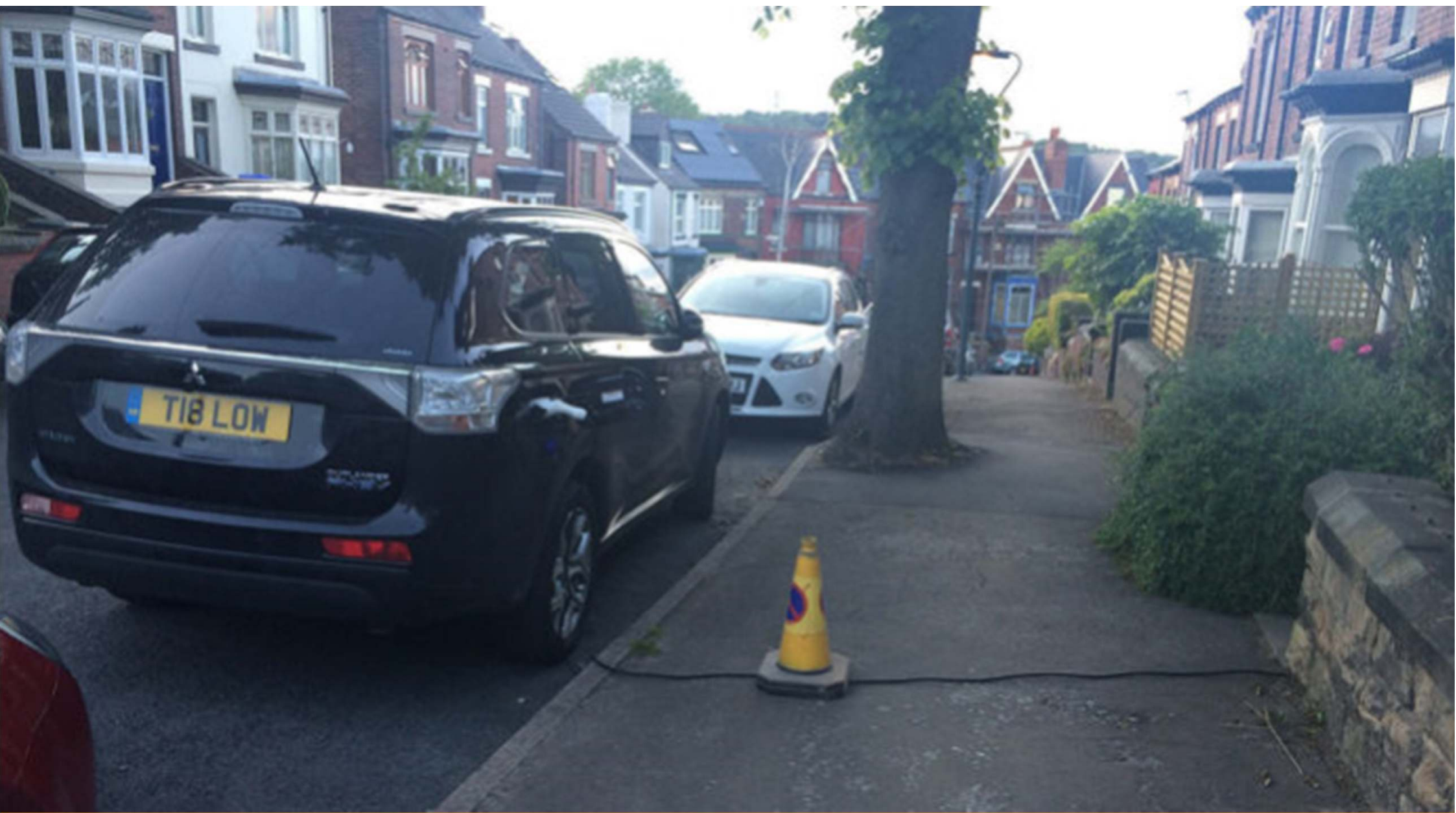


of Londoners

National Grid









no urban **#rEVolution...**

the solution

#CleanStreets

UEone

Retractable EV charging
bollard

Ground Level



875 mm

405 mm



app operated



smart cable



up to 7kW power





an opportunity: local authorities

Benefit from an electrified #CleanStreets future by profiting from the rollout of **UEone EV charging infrastructure.**

details to be announced Q1 2019

an opportunity: car ownership



- 
- a workable solution to accelerate EV adoption in urban areas TODAY
 - home charging = sustainable way to support EV growth (EVs as grid assets)
 - an opportunity for local authorities and new car ownership models
 - the **UEone** is just the start. CHARGE POINTS CAN AND WILL CHANGE!
- 

| electric

MakeItHappen@urbanelectric.london

Electric Vehicles : Infrastructure and Impact

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