## ELEVATE

## Innovative Light ELEctric Vehicles for Active and Digital TravEl

## UNIVERSITY OF LEEDS Institute for Transport Studies



#### **University of Brighton**



Engineering and Physical Sciences Research Council





**Raleigh Stride** 

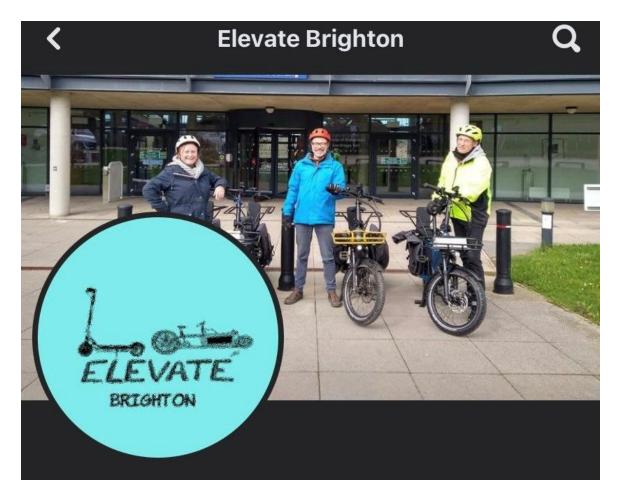




#### **Riese and Müller Multitinker**



DATA COLLECTION



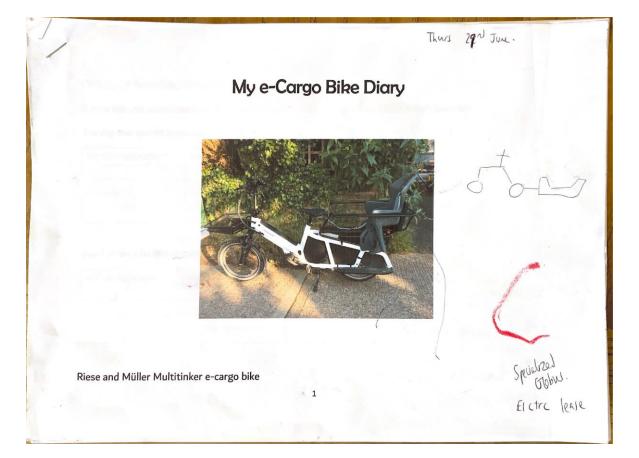
#### **Elevate Brighton**

36 likes · 42 followers

Research project looking into opinions on Ebikes, Escooters, Ecargo bikes, in Brighton!

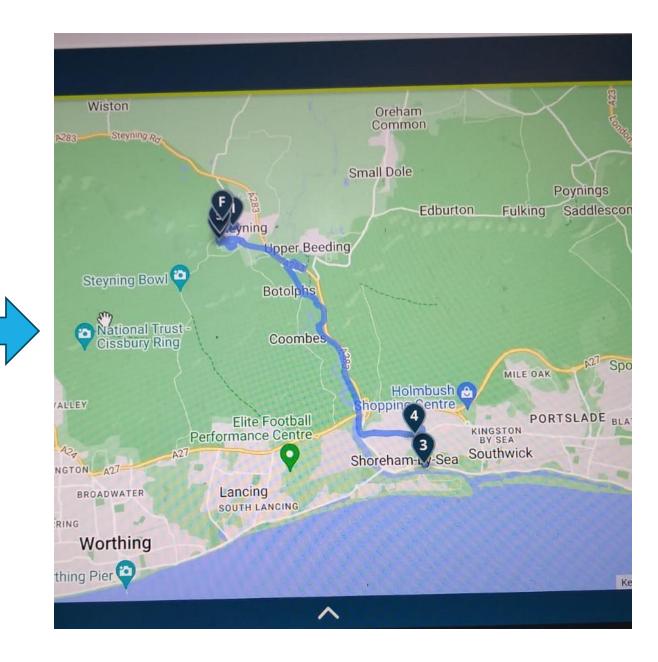
- National YouGov survey
- Facebook page
- Local survey used to gather general mobility data and recruit participants
- Facebook comments also collected

## **TRAVEL DIARIES**



## **GPS TRACKING**







## WEEKLY INTERVIEWS

Fan pictures as Albion smash Palace at the Amex

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Fan pictures as Albion smash Palace at the 17/37 Hide caption

#### **Current analysis:**

GPS data - trip frequencies, durations, times of day, routes, destinations

Travel diary data - trip purpose, weather dependency, modal substitution

Interviews coded – 80 themes – road surface, digital interface issues, mental health, multi-mode trip linking, social interactions, future imagined use... HARD(ER) DATA



 Typical Brighton use radius 30 minutes / 5-6 miles

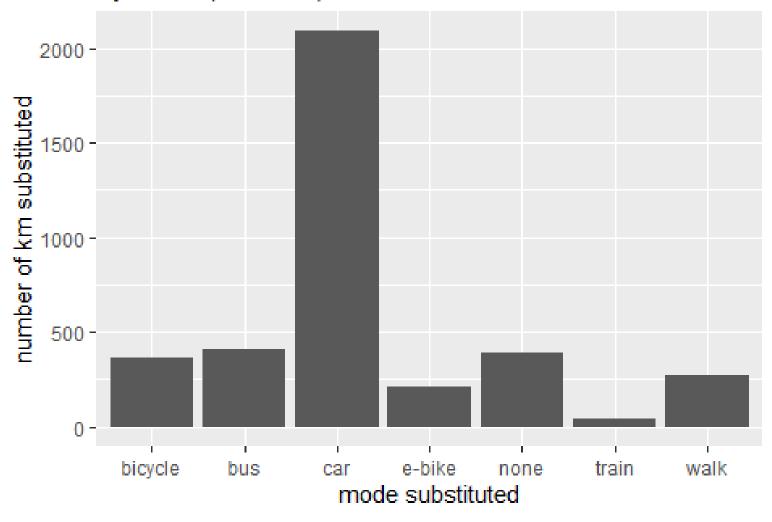
#### Can see:

- What types of road / infrastructure are used / avoided.
- Heat mapping of destinations, identifying where parking is wanted.



Typical Brighton average power input 100W ='moderate' physical activity

#### Leeds & Brighton e-cargobike trip substitution by mode(total km)



#### The e-cargo bikes:

- Substituted over 2000km of driving
- Generated around 400km of new journeys
- Encouraged people to take the e-cargo bike instead of the bus

SOFT(ER) DATA



### 'I've never been one to cycle much around Brighton'



'Would you recommend an ecargo bike to other people?

I've probably recommended it to like about 500 people this month. Definitely. Yeah.'



'All the kids wanted to get on it, and me kind of going, oh, God, like can we do it another time, it's so hot, can we do it another time, but...'



'Yeah, it felt good, I went around someone and I was like, I can't believe I just did that really confidently!' INITIAL OBSERVATIONS



## 'No need for super skills or silly clothes'





## 'Not a problem'

#### 'Drivers are more patient'



### 'You're seeing more of them around'

# PROBLEMS AND SOLUTIONS

### **Riese and Muller Multitinker Vario 20**

£5,839.00

Surge Boost - £583.90 of free accessories with this bike 🕐

Finance Available - Contact us for options. ③

Gates Carbon Drive Belt 65kg Passenger Limit



Key Feature Top quality long tail cargo bike with Bosch Smart System & low maintenance drivetrain



Motor Bosch Performance Line CX (smart system) Gearing Enviolo h

 $\blacksquare$ 

Battery

Enviolo hub gears & Gates Carbon B drive

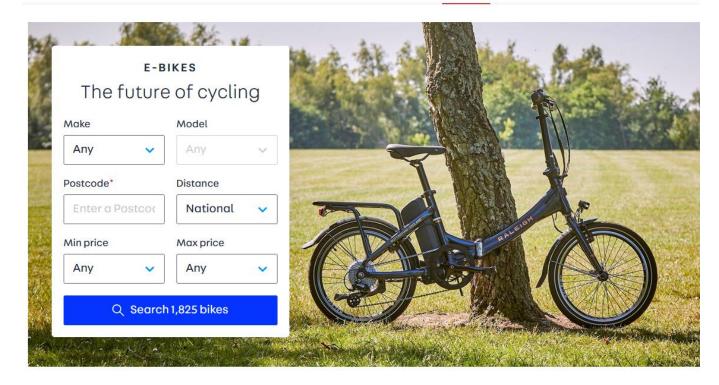
Bosch PowerTube 625 Horizontal



#### Cars Vans Bikes Motorhomes Caravans Trucks Farm Plant



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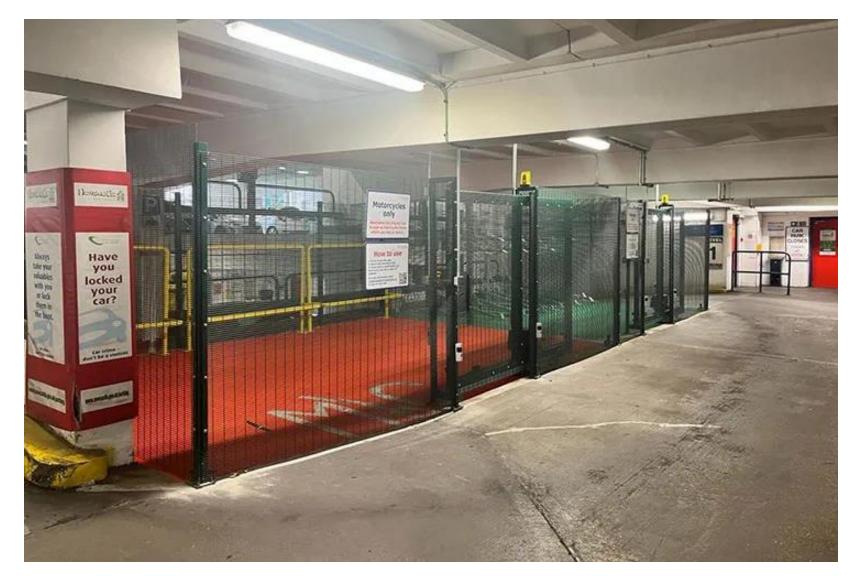


Is an e-bike right for me?

# Bike2Work Scheme.co.uk Tax Free Cycles



In-house storage generally impractical – need large on-street hangars



In-town parking not secure – perhaps a dedicated space in multistorey car parks? What next for ELEVATE?

Follow our blog:

https://blogs.brighton.ac.uk/elevate/

Winter trials ending May 2024

Analysis continuing over the summer



LITTLE GRAZERS – e-cargo bike as a practical, fast delivery vehicle