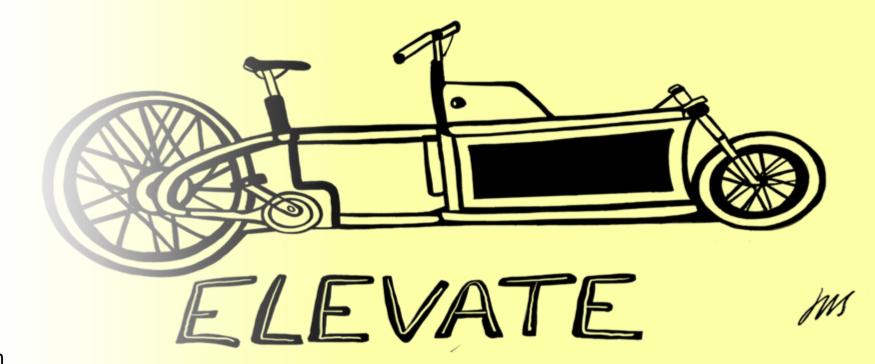
Contents of this slide pack

- The analysis presented in this slide pack is preliminary and has yet to be subjected to peer review.
- If you wish to use or cite any of the findings, please first contact <u>i.Philips@leeds.ac.uk</u> .for the latest results and citation.
- Outputs will be regularly uploaded on to the project website https://blogs.brighton.ac.uk/elevate/



ELEVATE

Innovative Light ELEctric Vehicles for Active and Digital TravEl



UNIVERSITY OF LEEDSInstitute for Transport Studies



University of Brighton



Engineering and Physical Sciences Research Council





Raleigh Stride

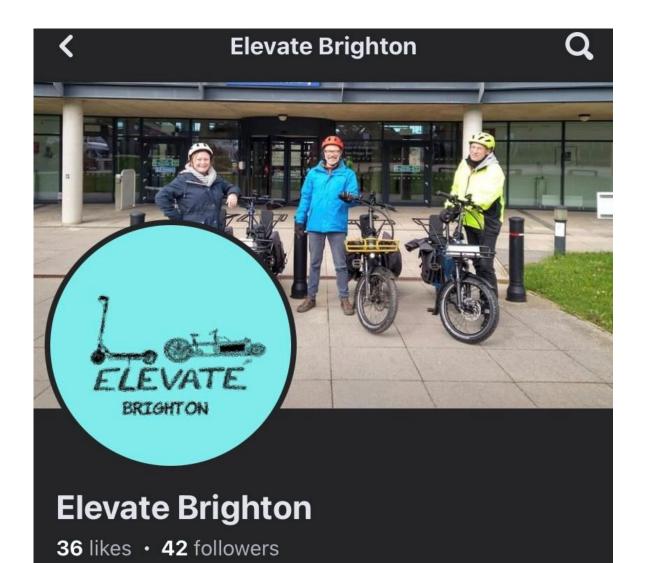


Tern GSD



Riese and Müller Multitinker

DATA COLLECTION

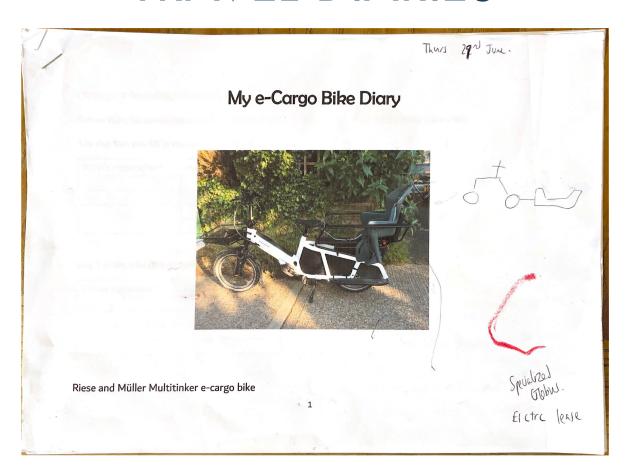


Research project looking into opinions on Ebikes,

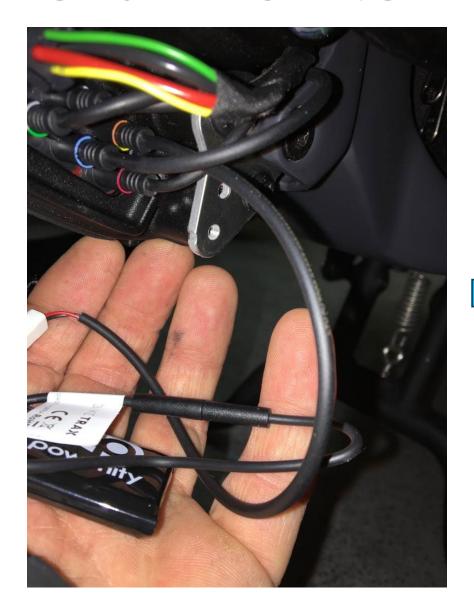
Escooters, Ecargo bikes, in Brighton!

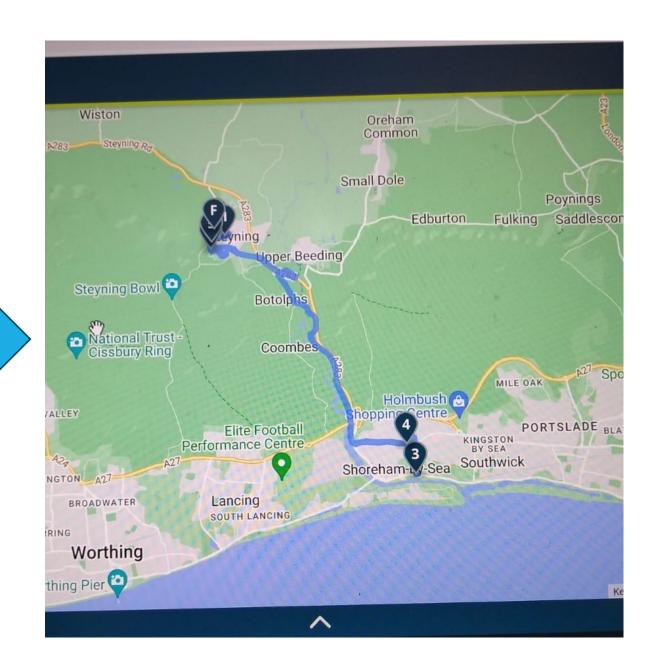
- National YouGov survey
- Facebook page
- Local survey used to gather general mobility data and recruit participants
- Facebook comments also collected

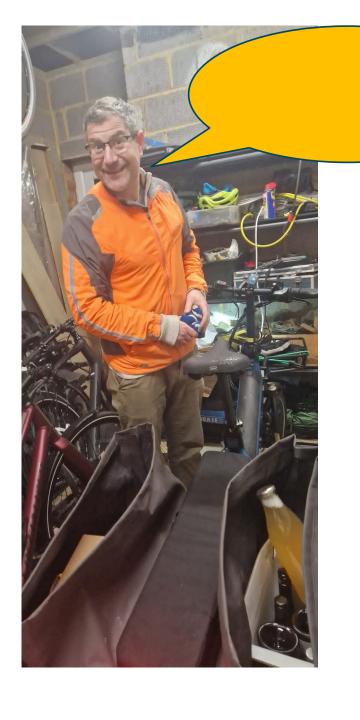
TRAVEL DIARIES



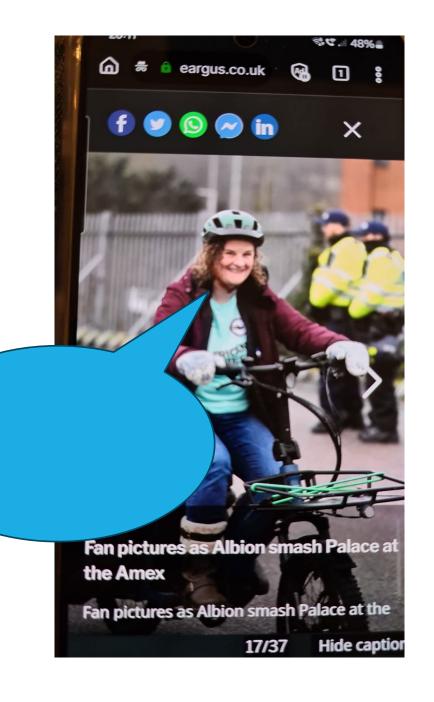
GPS TRACKING







WEEKLY INTERVIEWS



Current analysis:

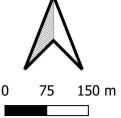
GPS data - trip frequencies, durations, times of day, routes, destinations

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

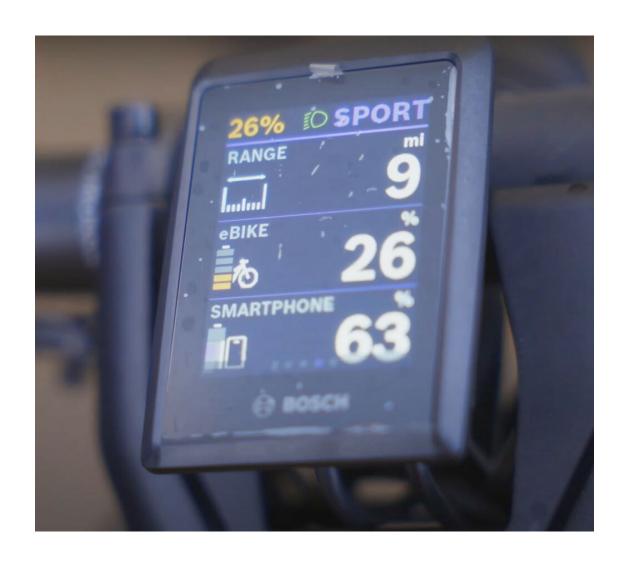




 Typical Brighton use radius 30 minutes / 5-6 miles

Can see:

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



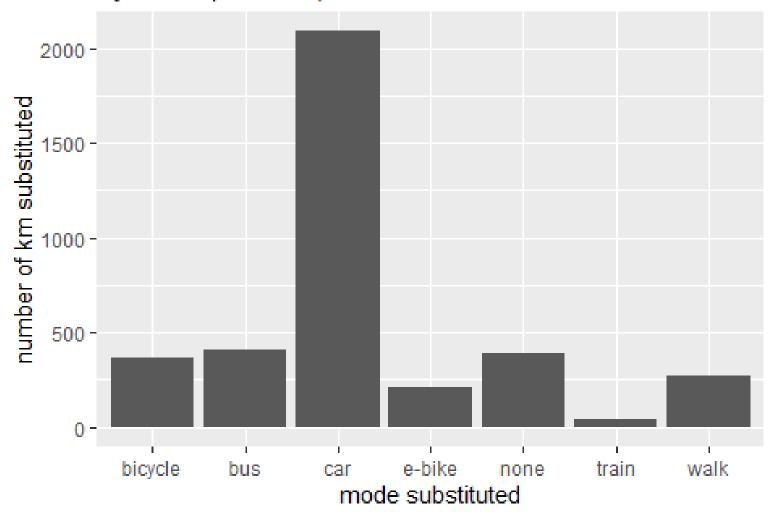
Typical Brighton

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. ①

Gates Carbon Drive Belt 65kg Passenger Limit



Key Feature

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



Battery

Bosch PowerTube 625 Horizontal



Motor

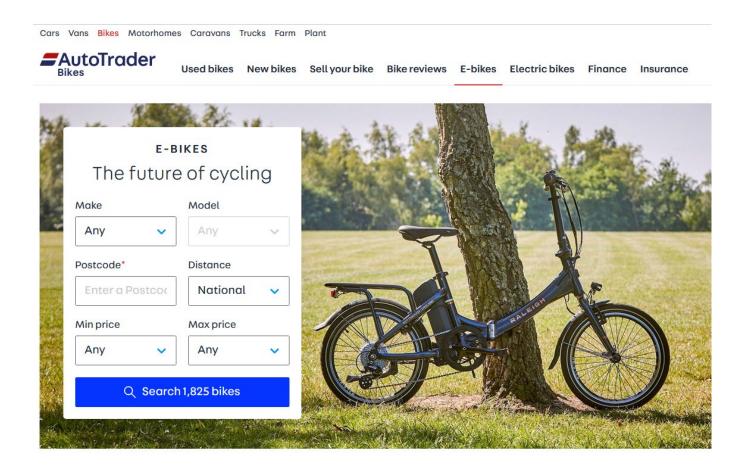
Bosch Performance Line CX (smart system)



Gearing

Enviolo hub gears & Gates Carbon E drive

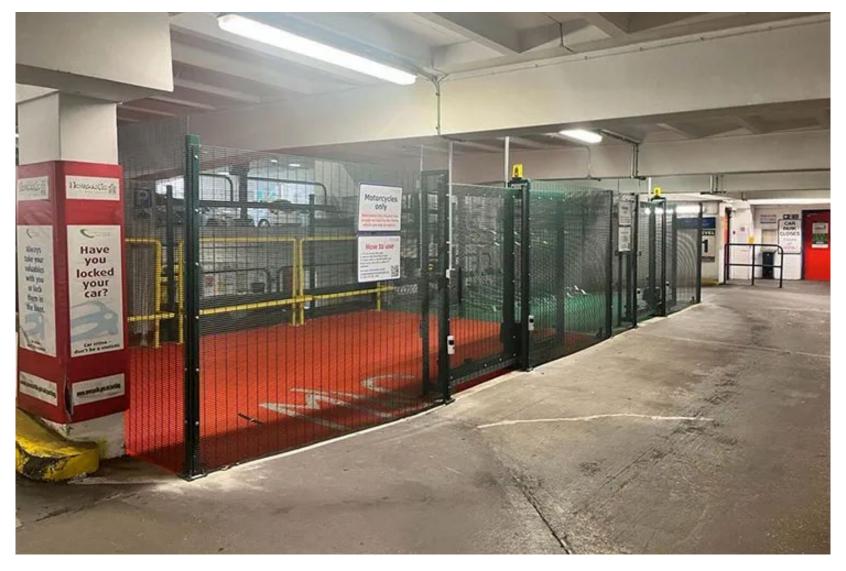




Is an e-bike right for me?



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