RGS Symposium -Future of rural mobility 27 March 2024

E-bikes
outside cities what next?

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Introduction

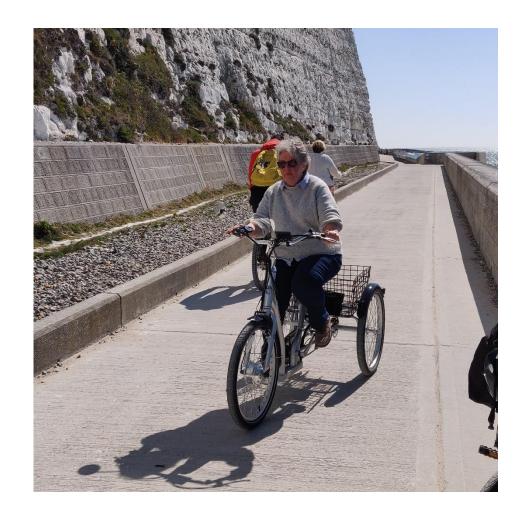


- What's in a name e-bikes or micromobility?
- Potential for increased use outside big cities
- Case studies
- Suggestions

What's micromobility



- E-bikes, e-trikes, e-scooters, what else?
- What e-bikes?
 - Private e-bikes
 - E-bikeshare
 - E-cargo cycles
 - Adapted cycles



Private e-bikes



- Good for hilly areas
- Enables longer journeys (on average, 4x standard cycles)
- Helpful for disabled people as well as those with lower fitness
- Higher use by women, older people, people with health issues



Promoting private e-bikes



Cycle loans ('try before you buy')

- Over longer periods than bike share (typically 1 week 2 months)
- Can be converted into discounted purchase
- Usually in partnership with community development bodies
- New pilots funded by DfT in 4 locations

Bike libraries

- Range of different cycles
- Static or mobile
- Way to try out different equipment
- Works alongside Bikeability cycle training

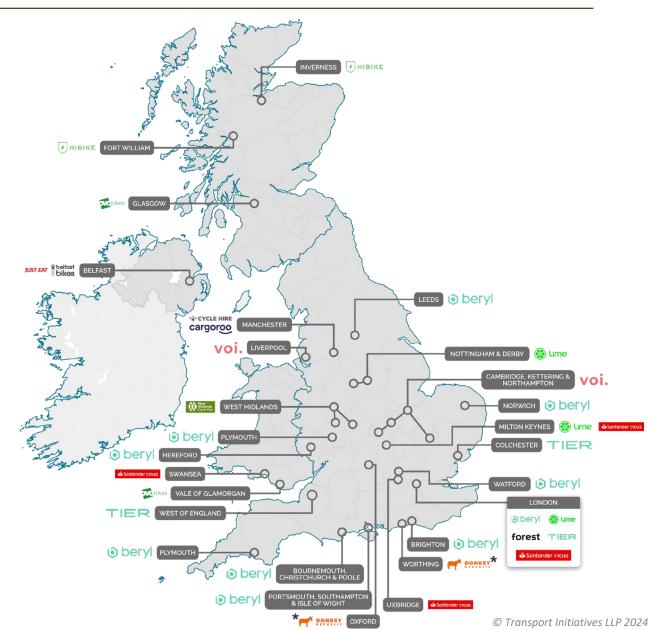




What is bike share?



- "Self-service, short-term, one-way bike rental system in public space"
- Multiple trip purposes including work, commuting, utility & leisure
- Usually with custom-built cycles, accessible to most & easy to use
- Public membership, payment & access systems
- Process to maintain & redistribute bikes
- Back-office support including registration, payments & other support



Growth of bike share



Fleet size



2021-22 UK bike share statistics (CoMo UK Bike Share Annual Report 2021, published May 2022)



2022-23 UK bike share statistics (CoMo UK Bike Share Annual Report 2022, published May 2023)

Who uses bike share

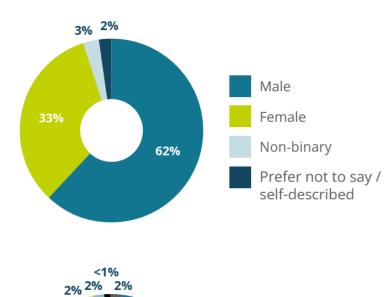
17 or younger

55-59

60-64

65-74





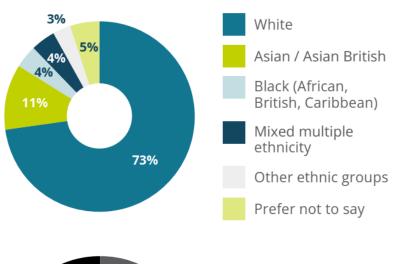
17%

14%

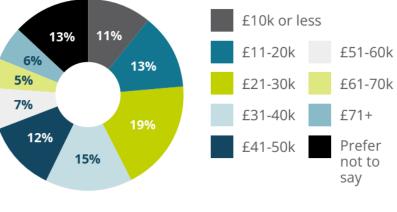
22%













Some key data on bike share



BIKE SHARE MOTIVATES PEOPLE TO PICK UP CYCLING



53%

of bike share users started cycling again cycle for the first after at least one year time ever

used bike share to

BIKE SHARE SERVES AS AN ESTABLISHED MODE OF TRANSPORTATION



use it for commuting at least once a week

BIKE SHARE INCREASES LEVELS OF PHYSICAL ACTIVITY

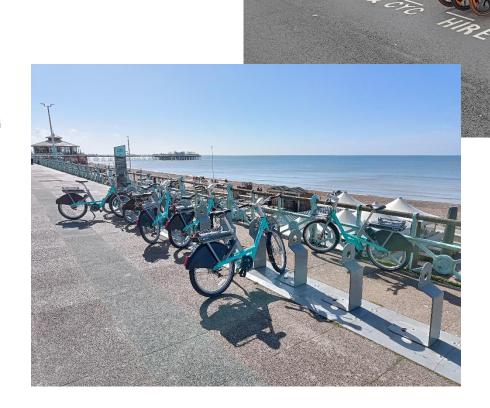


of users agree that bike share provides them with exercise

BIKE SHARE IS A COST EFFICIENT WAY OF TRAVELLING



of users agree that bike sharing saves them money





What does bike share achieve







66%

of users have been cycling more frequently since joining a bike share scheme

BIKE SHARE IS PART OF MULTI MODAL TRIPS



64%

of users combine bike share with other means of transport, mainly with bus or train rides

BIKE SHARE REDUCES CAR USE



37%

would have made their most common bike share trip by car (as driver, passenger, or by taxi or hire vehicle), had bike share not been available

BIKE SHARE REDUCES CARBON EMISSIONS



71kg

of CO₂ emissions are reduced on average by every bike share user each year as a result of the mode shift caused by shared bikes



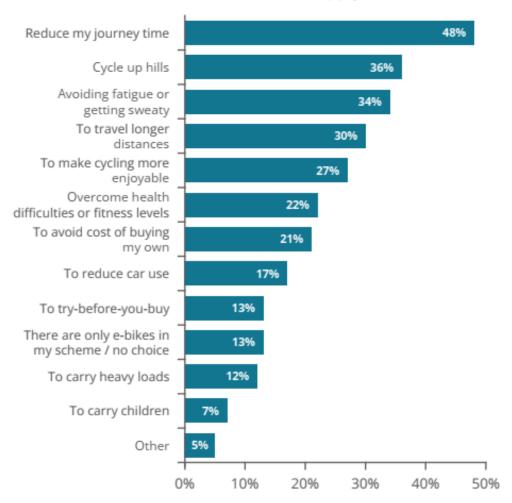


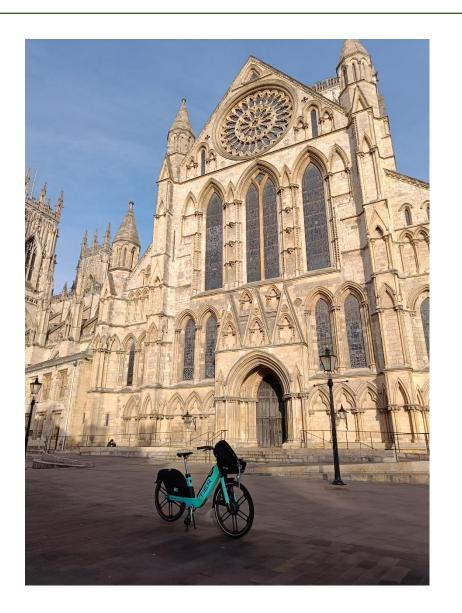
E Bikes



Which of the following reasons apply for why you use electric bikes (e-bikes) and electric cargo bikes (e-cargo bikes)?

(Tick all that apply)



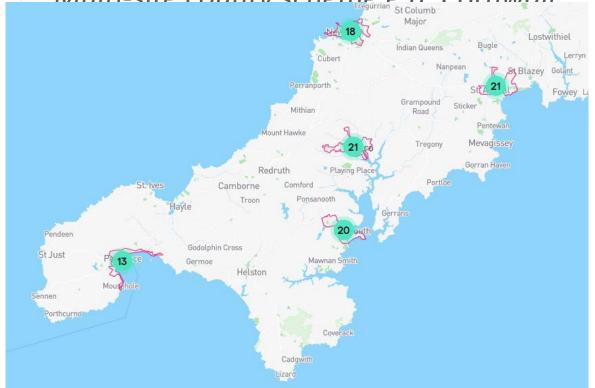


Potential for increased use outside big cities



- Medium size towns e.g. Stevenage
- Small town schemes e.g. Hereford (75 ebikes, 145 standard bikes, 4 cargo bikes)

Multi-site county scheme e a Cornwall



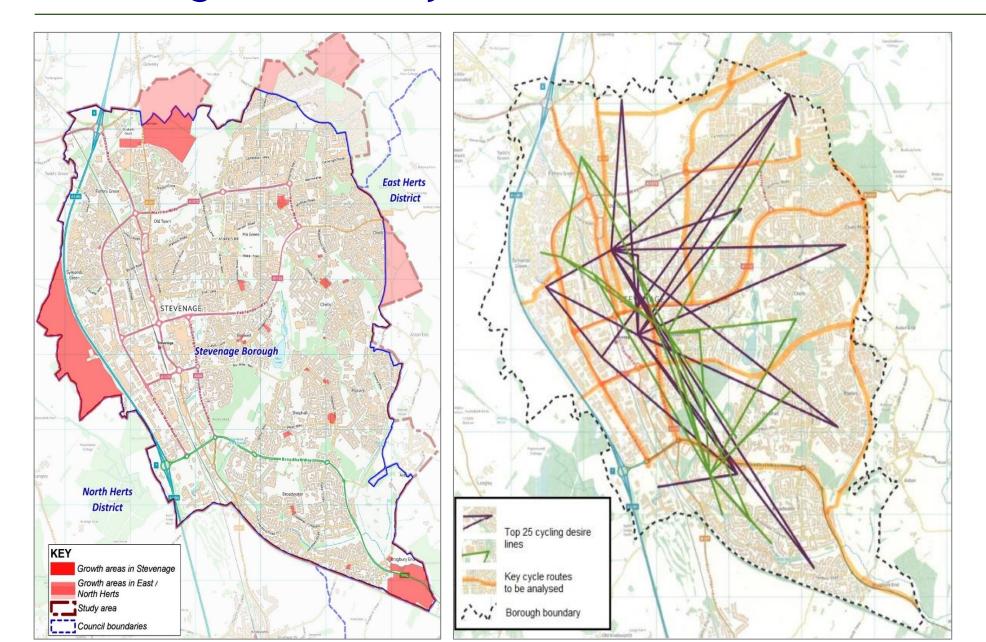


Pay-as-you-go ebikes available to rent for as little as 1 hour, 24/7, 365 days/year

Community schemes e.g. Staveley, Strawberry Line cycles

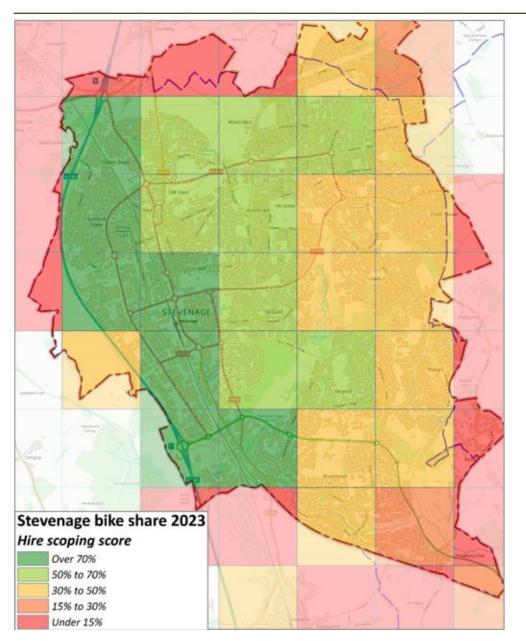
Stevenage case study

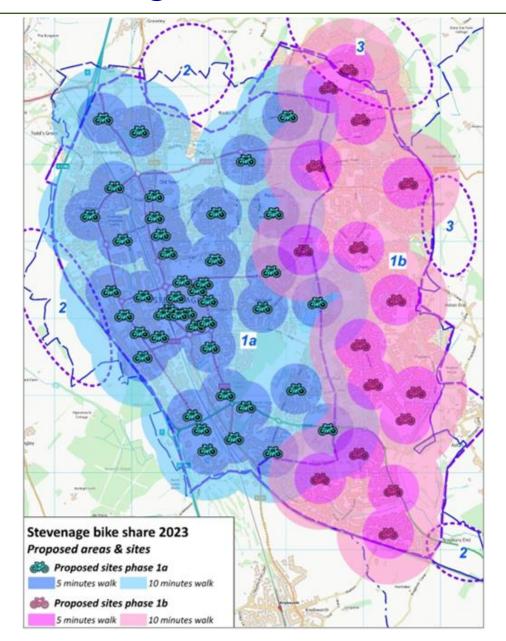




Potential for bike share in Stevenage







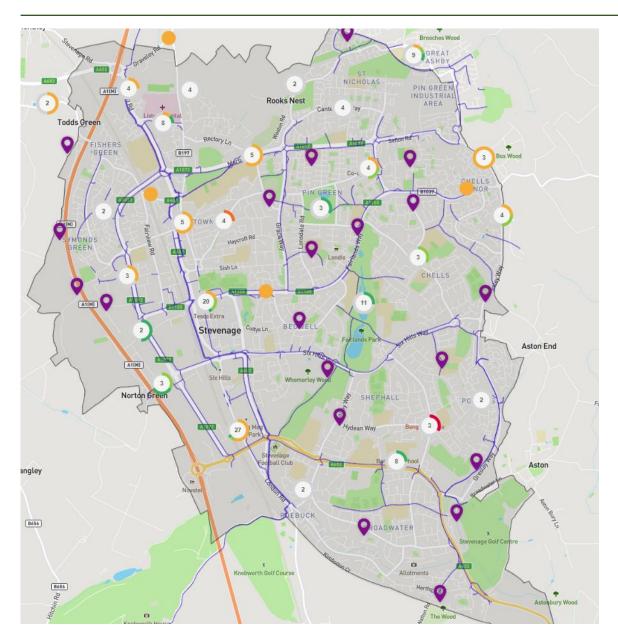
Potential for bike share in Stevenage



Dissatisfied

Neutral

Unhappy



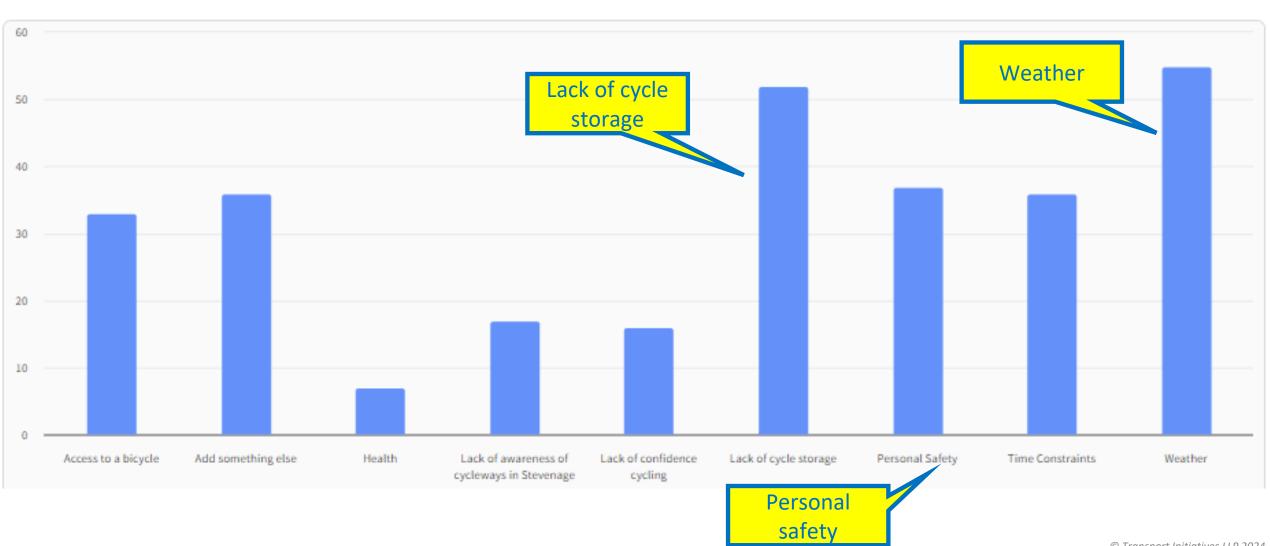
How do you feel about a cycle share scheme in Stevenage?



Potential for bike share in Stevenage



Is there anything that currently discourages you from cycling in Stevenage? (Please select as many as apply)



E-cargo & adapted cycles

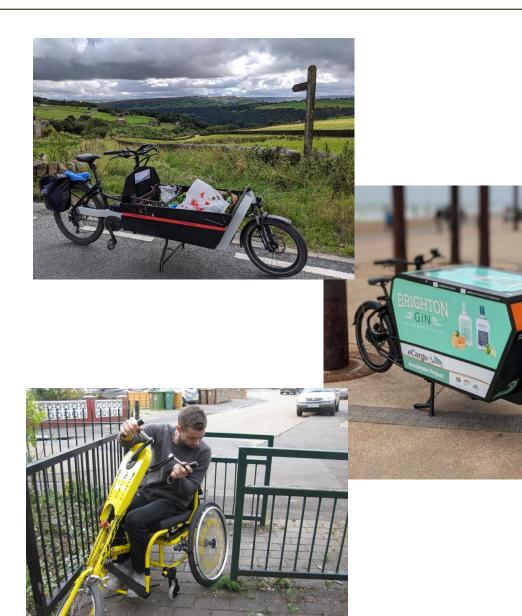


Cargo cycles

- More sustainable than vans
- Can go where cycles can
- Good for small local businesses
- May need training
- Examples Cargodale, Brighton ecargo bike Accelerator

Adapted cycles

- Helpful for wide range of disabilities
- More expensive than standard cycles
- Larger & heavier than standard cycles
 may require specialised parking
- Examples Wheels for Wellbeing



Mobility hubs



- Main mobility hub
 - Bus, bike share, car club, e-cargo bike, taxi, EV charging
 - Sheltered waiting space, open social space, café / refreshment
 - Printed & real time information, totem
 - Cycle parking, bike repair stand
 - Click & collect
 - Localised provision within town/ village hub
- Possibility of co-location with community hub / other facilities







Maximising the impact of e-mobility



- Consider capital <u>and</u> revenue
- Operational plan is crucial
- Community support & ideally involvement
- Integration with public transport (maybe even ticketing)
- Link to new developments
- Consider other infrastructure issues
- School Streets
- Greenways
- Quiet Lanes

