

Future of Rural Mobility Study 19th May 2020 Valerie Hastie

valeriehastie@midlandsconnect.uk



Midlands Connect

"Midlands Connect is the strategic transport partnership of our region. We turn evidence into investment for long-term projects that will deliver real economic, social and environmental benefits for the Midlands and the UK"

The Future of Rural Mobility Study



The Future of Rural Mobility Study (FoRMS)

October 2019

Gary Bosworth, Charles Fox, Liz Price & Martin Collison University of Lincoln Commissioned the University of Lincoln on behalf of our partners

Focused on the human and business needs of rural areas

Assessed new and future mobility tools

Toolkit/menu of options including technical and non-technical



Future of Rural Mobility

Stakeholder engagement







RSN survey

Key needs: access to health, local services and affordable housing

Broadband, mobile phone coverage and public transport are a means to address rural needs

Workshops

Interviews









Rural areas

- Not homogenous
- Varied economy
- Ageing population
- Reduced bus services
- 'Last mile' concept

The transport and access issues faced by our rural communities and businesses are substantially different to those in more urban settings.



Personas/use cases



Midlands Connect

Use case/personas	Current transport context	Technology opportunities	Barriers to the tech
Urban commuters travelling from the rural to town/city	May drop children at school en route; may need to stay away from home	Potential to: work at home, use effective demand responsive transport, use workspaces in rural hubs	Barriers: not all jobs suited to home working; mobile, broadband, 5G patchy if available
Residents not in education or employment but seeking to be so	Hard to access education and employment, car may be unaffordable, struggle to access healthcare	Potential to: use wheels to work, bikes/e-bikes, effective public transport/DRT with connectivity	Barriers: cost to the user, local roads not suitable for bikes, mobile, broadband and 5G patchy, insufficient buses

Geography of need



Market towns may have park and ride/chose, more regular bus services and reasonable mobile and broadband coverage. Last mile can be active travel. **Real time information on buses, app based demand responsive transport, car share via an app, deliveries to hubs.**

Rural fringes have poor public transport, patchy mobile and broadband coverage, reliance on private cars. Part/full time home working, real time information on buses, app based demand responsive transport, car share via an app, deliveries to hubs.

Rural villages may have limited or no public transport, mobile and broadband likely to be very patchy, heavy reliance on private cars. Home working, real time information on buses, village hubs, bundling demand for transport.

'Last mile' may be much longer distance to final destination. Demand responsive transport to access bus stops or the train; semi-autonomous pods, provision at village hubs if service users can get there.



Midlands Connect

SCHEEMDA ELECTRIC DRIVERLESS SHUTTLE

Scheemda Ommelander Hospital electric driverless shuttle (Arriva)





Potential technologies for rural mobility

Current, emerging and future technologies

Wide range of opportunities, but not all are suited to rural areas

Other opportunities



Future of Rural Mobility

Study recommendations

Fresh approaches:

1. Investigate the potential for hubs to allow improved connectivity.

New technology:

5. Invest in digital infrastructure to support improved bus services and subsidise smaller operators on less profitable rural routes.

Improved regulation:

15. Review the highways legislation for rural footpaths, cycle-paths and bridleways, also rural roads without pavements to facilitate growth in electric micro-mobility.









Our research identified that the needs of numl areas wary considerably between regions and even between nearby nullsage. The text in the bows above provides some generation commentary about the porticial of new holling technologies to medic certain nural needs. Ref text highlights barriers that must be addressed too. The textils is that starting point for loadly-focused conversations to inform investment and glamming decisions as well as community-be about toos that entirace exclosing to improve numl living.

A blank version is downloadable at: htt A balank version is useful and we suggest that this is printed at least on A3 and used for local consultation with rural communities, and for conversations with transport and technology providers to inform strategic priorities for rural mobility.

The Rural Needs Framework

Enhancing existing public transport (smart ticketing, dynamic scheduling etc.)

Tool

Co co

Acc ser (sh PO

UNIVERSITY OF

Rural need



Self-drive, carpool and ride-share innovations

mmunity hesion	Encourage public transport use; simplify payments and provide confidence to travellers.	Potential to generate more social mixing and companionship.
		Social enterprises and volunteers to operate schemes.
		Scope for drivers to offset cost of travel by offering lifts.
cessing key rvices hops, banks, etc)	Sustain market town high streets through increased footfall.	Highly realistic for journeys that are not time critical. • Requires cultural change.

Future of Rural Mobility



The Future of Rural Mobility Toolkit





Future of Rural Mobility