1 Prioritising transport barriers and enablers to mobility in later life: A case study from Greater

- 2 Manchester in the United Kingdom
- 3

4 Abstract

- 5 Introduction:
- 6 There are many barriers to mobility for older people which are detrimental to older people's health
- 7 and wellbeing. This research got older people to prioritise their transport barriers in terms of their
- 8 importance as a barrier to getting out and about, and the likelihood that that barrier occurs locally to
- 9 them. Following this, older people then co-developed and prioritised solutions to the barriers,
- 10 prioritising them in terms of potential effectiveness and perceived ease of implementation.
- 11 Methodology:
- 12 Using a case study of Greater Manchester in the United Kingdom, a series of focus groups in
- 13 different locations got older people and stakeholders to prioritise issues and solutions for older
- 14 people's mobility around neighbourhood, public and community transport and policy and practice
- 15 themes.
- 16 Results:
- 17 Participants tended to prioritise issues that affected their safety. Poor quality pavements, sharing
- 18 pavements with cyclists and mobility scooters, poor crossing facilities and bus drivers driving off
- 19 before they had a chance to sit down were all major issues and all related to the potential for falls.
- 20 Poor information and signage was another issue with public and community transport. To help put
- 21 things right, it was strongly suggested transport staff need age friendly awareness training.
- 22 Participants also wanted more involvement with decision making over transport and the built
- environment with a need to move beyond the current forms of consultation.
- 24 Conclusion:
- 25 Overall, there was a constant tension between older people portraying themselves and being seen
- as frail and needy and as resourceful, proactive and engaged. This makes the transport offering
- 27 difficult to achieve, schemes aimed at plugging deficits are seen as inappropriately patronising, yet
- 28 schemes not aimed at older people can make them feel misunderstood or ignored.

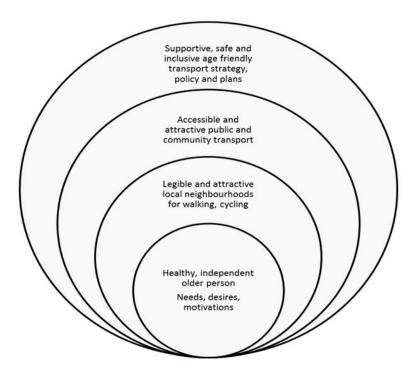
29 Key words

- 30 Ageing; public transport; mobility; community transport; walking; transport policy
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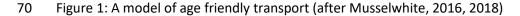
32 Introduction

33 Being mobile and being able to use transport to be mobile is extremely important for older people's

- 34 health and wellbeing (Holley-Moore and Creighton, 2015; Musselwhite et al., 2015; Musselwhite,
- 35 2015: Ormerod et al., 2015). In most wealthy and many low and middle income countries, high levels
- of mobility are undertaken in order to stay connected to communities, friends and family and to
- 37 access shops and services (Mackett, 2018). The car has been central to this hyper-connectivity,
- 38 affording more choice over the location of work and home (Musselwhite and Curl, 2018). Society has
- 39 become so organised around the car, that those without a vehicle can become socially excluded.
- 40 Such institutional car-ism occurs without acknowledging the wider negative consequences of priority
- 41 planning around the car, such as excluding non-car users, pollution, severance of communities and
- 42 accidents and associated casualties (Musselwhite, 2018a).
- 43 In many western cultures the growth of car use has been across the life-course but there has been a
- 44 significant and unprecedented increase in the number of older drivers on the road (Mackett, 2018).
- 45 At the same time walking, cycling and non-urban bus use has been in decline across all ages
- 46 (Mackett, 2018). The decline in use of such services, especially bus services, means they may be
- 47 infrequent in nature and hence difficult to use. This has significant consequences for older people
- 48 when they have to give-up driving and use other modes of transport, which they may not have used
- 49 for many years (Musselwhite and Shergold, 2013). Older people are more likely than any other age
- 50 group to suffer mobility deprivation, in that they cannot access the places they want because they
- 51 cannot physically get to them (Holley-Moore and Creighton, 2015; Mackett, 2018).Older people are
- 52 more likely than any other age group to give-up driving (Musselwhite and Shergold, 2013,
- 53 Musselwhite, 2015). Hence, it is vitally important for older people to have mobility options across
- 54 many different modes of transport and mobility.
- 55 It was decided to use a theoretical model to help position how different parts of the transport
- 56 environment may affect the older person. Musselwhite (2016, 2018) has devised an age friendly
- 57 transport system approach utilising Bronfenbrenner's (1979, 1989, 2005) ecological model, to show
- 58 how different elements of the environment interact with each other and impact upon the individual
- 59 and are impacted upon by the individual. Musselwhite's (2016, 2018) model starts with the person
- 60 in the centre, with concentric circles spreading outwards to laws, policy and plans at the outside,
- 61 connected at the neighbourhood and public and community transport provision between them (see
- Figure 1). This was chosen to allow data to be collected around different types of mobility from
- 63 neighbourhood to public and community, with laws, policy and plans overarching them, while
- 64 respecting that these influence one another. This model was chosen over others, for example, needs
- based models (Hjorthol, et al., 2010; Musselwhite and Haddad, 2010, 2018), mobility capital-based
- 66 models (Musselwhite and Scott, 2019) or non-literal mobilities continuums (Parkhurst et al., 2014) as
- 67 these do not easily distinguish between the different physical modes of transport as readily as
- 68 Musselwhite's (2016,2018) model does.



69



71

72 Neighbourhood level

Walking is good for health. There are direct benefits of continuing active travel in later life. Regular 73 74 walking or cycling has been found to reduce cardiovascular disease by around 30% and reduce all-75 cause mortality by 20% (Hamer and Chider, 2008), through reducing the risk of coronary heart 76 disease, stroke, cancer, obesity and type 2 diabetes (NICE, 2013). It also keeps the musculoskeletal 77 system healthy and is good for mental health (NICE, 2013). Improving the public realm to be more 78 accessible (providing public toilets, benches, wide and well maintained pavements), legible (maps, 79 spaces that make you feel you should be there) and desirable (use of quality materials, landscaping, 80 arts and vegetation to make you want to be there) can help older people walk more often (Musselwhite, 2018b). However, there are a number of known barriers to walking that are 81 especially an issue for older people, including poorly maintained pavements, for example that are 82 83 frequently cracked hamper walking (Newton and Ormerod, 2012), poor surfaces, caused by fallen 84 leaves, rain, ice or snow (Wennberg, 2009) and cluttered or shared pavements, with pavement 85 parking, street furniture or narrow or non-existent pavements creating barriers (Musselwhite, 86 2018b). Dark or poorly lit streets especially in inclement weather or at night have a negative effect 87 on older people using the street, both in terms of concerns about falling and because of safety fears

- 88 (Shumway-Cook, et al., 2003). Inability to cross the road has been cited as a crucial factor that
- 89 reduces older people's confidence with getting out and about, and can mean older people make
- 90 large detours to avoid crossing dangerous roads, make fewer trips or even stay at home (Lord et al.,
- 91 2010; Zijlstra etal., 2007). Crossing times are set for a walking speed of 1.22meters per second (m/s)
- 92 in most countries, and this is too fast for older people. Musselwhite (2015) found 88% of older
- 93 people cannot complete the crossing in this time. Similarly, previous research suggests older people
- cross the road at between 0.7 and 0.9 metres per second (e.g. Asher et al., 2012, Newton and
- 95 Ormerod, 2008).

96 Public and community transport

97 Public buses play an important part in connectivity for older people, especially those who have given

98 up driving. Bus use is especially high among older people where there are concessionary or free

99 fares, as in the United Kingdom. Not only does the bus keep people connected, bus use is also

- 100 correlated with health and wellbeing, being a protective factor in obesity for older people (Webb et101 al., 2011).
- 102 There are still many barriers to using a bus, even if it is free, that prevent or make it difficult for older 103 people to use it. Gilhooly et al. (2002) found the highest barrier to public transport use amongst 104 older people was personal security in the evening and at night (79.8% of over 70s agreed), followed 105 by transport running late. A report using accompanied journeys in London highlighted similar 106 problems for older people including crowds at the bus stop or on the bus, prams taking up the seats 107 or area at the front of the bus, steps up to the bus being too high (or driver stopping too far from the kerb) and fear of falling over when the bus moves off (TfL, 2009). These continue to be a barrier 108 despite low-floor and easy to access buses and raised bus stops (Mifsud et al., 2019). Broome et al. 109 110 (2010) in an Australian study found that for older people, driver friendliness, ease of entry/exit and 111 information usability were prioritised barriers and facilitators for older people. Age UK London (2011) quantified this by surveying bus driving behaviour in 550 journeys in inner London and 541 112 113 journeys in outer London. In 42% of cases, passengers were not given enough time to sit down 114 before the bus was driven away from the stop. In 25% of the cases the bus did not pull up tight to 115 the kerb at the bus stop.
- As an alternative to conventional public bus services, there can be provision of specialist transport
- services, often operating door to door for people who cannot access public or private transport,
- 118 known as specialist transport service or community transport or transit. Such services usually run on
- demand rather than a scheduled timetable. There are some barriers to community transport use
- 120 (Musselwhite, 2018c) and services can be fragmented across the country as they rely on third sector
- 121 or charity provision (Mohammed et al, 2019; Mulley et al., 2012). People who may well benefit from
- such a service can sometimes feel the service is not for people like them; there is sometimes the
- 123 perception that it is for people with disabilities, rather than for everyone with accessibility issues
- 124 (Musselwhite, 2018c; Ward et al., 2013). Journeys typically are based around providing transport to
- shops, services and doctors and hospitals, but there needs to be more "discretionary" journeys
- 126 provided to places of leisure and fun (Musselwhite, 2017).
- 127 Governance, policy and societal norms

- 128 Transport policy tends to focus around the needs of business and work and focusses on inter- and
- 129 intra-urban mobility with a focus on provision in supporting core work hours 9-5 (Musselwhite,
- 130 2018a). Older people's needs may therefore not be met, as their needs differ, for example they
- 131 often work part-time and avoid rush hour travel if they can and have greater caring responsibilities.
- 132 Even though there is scope for greater impact from policy if directed around lifestages (e.g.
- 133 retirement from work, becoming a grandparent, becoming a carer), age is very rarely mentioned in
- 134 policy contexts (Avineri and Goodwin, 2010).

135 Aim of the paper and gap in knowledge

- 136 As can be seen there are many barrier's to transport mobility for older people. This paper reports
- 137 research which aimed to offer a wider context to the barriers, allowing older people to discuss and
- 138 broaden the barriers and relate them to their local context. Within these discussions older people
- ranked the barriers in terms of their importance as a barrier to getting out and about, and the
- 140 likelihood that that barrier occurs locally to them. Once this prioritisation had occurred, older people
- 141 then co-developed and prioritised solutions to the barriers, prioritising them in terms of potential
- 142 effectiveness and perceived ease of implementation.

143 Method

144 Design

A case study approach was adopted using one overarching region, within which data collection in 145 146 different distinct areas were carried out, using an interactive workshop style focus group. In-depth 147 focussed data was collected around the three layers based on Musselwhite's (2016,2018a) age 148 friendly model (figure 1): neighbourhood, public and community transport, and governance, policy 149 and norms. As such it was deemed appropriate that the priority sorting of key barriers and enablers 150 to mobility and transport should be performed by older people themselves. This co-production 151 approach was commensurate with a social approach to transport, where older people are the 152 experts in their own use of their transport within their local environment. In order to maximise the 153 social aspects of mobility, focus groups were selected with older people who lived locally. This 154 method would generate in-depth qualitative data from a bottom-up perspective and enable a 155 geographical context to the findings would take place. Previous research suggests that the provision 156 of age friendly transport varies between places for a variety of reasons including economic, political 157 and topographical issues (Musselwhite and Curl, 2018), hence focus groups in different geographical 158 locations within the case study area were deemed important.

159 Case study location

160 Greater Manchester was the location for the case study. Greater Manchester became the UK's first

age-friendly city region as recognised by the World Health Organization and has an unrivalled

- approach to bringing together stakeholders involved in improving the lives of older people in the
- 163 region. The Greater Manchester Ageing hub, run from the Greater Manchester Combined Authority,
- brings together all ten local authority councils in the region, the health and social care partnership,
- 165 public health, Health Innovation Manchester, fire and rescue, housing providers, the Centre for

- Ageing Better, the universities and health science network and Greater Manchester Centre for
- Voluntary Organisation. As such this was an ideal opportunity to run the prioritisation exercises withpotential to have real impact in the local transport system across Manchester.
- 169 In the Greater Manchester area, there are 431,000 over 65s, making up around 15.6% of the
- 170 population. Greater Manchester has a higher than average amount of deprivation 36% of Greater
- 171 Manchester population live in 20% of UKs most deprived neighbourhoods (Phillipson 2017). Self-
- 172 reported quality of life with respect to health (including mobility, self care, usual activities,
- pain/discomfort and anxiety/depression) among the over 65s is lower in Greater Manchester
- 174 compared to the average for England (Phillipson, 2017).
- 175 Focus groups were set up in conjunction with age leads from each area and took place during the
- summer of 2018. The selected areas for the focus groups within Greater Manchester were Salford,
- 177 Tameside, Bolton, Bury, Oldham and Wigan. The six selected areas are chosen to add heterogeneity
- to the findings. Wigan (18.4%), Bury (17.8%), Tameside (17.3%) and Bolton (16.8%) have higher than
- the Greater Manchester percentage of people aged over 65 (15.6%) in their areas. Oldham (15.8%)
- has average numbers of older people in their area and Salford (14.6%) by contrast has a lower
- 181 percentage of older people. In addition, Tameside and Wigan have higher than average number of
- 182 people living with disabilities in their area that may affect mobility and Oldham and Salford regularly
- appear in the most deprived areas in Britain on a number of factors including index of multiple
- deprivation but also single structures on housing, health and jobs (ONS, 2016). These two areas,
 along with Bolton are also noted for having high levels of deprivation especially for an ageing
- population (Income Deprivation Affecting Older People (IDAOPI)) (Bullen, 2015). Bury, by contrast is
- far less affected by a range of deprivation indices across all ages (Bullen 2015; ONS, 2016).
- 188 Mobility across Greater Manchester is commensurate with the picture of other large urban British 189 cities. As people age, there is less reliance on the car as a mode of transport and an increase in 190 public transport use, coupled with less walking (TfGM, 2019). Increases in trips are found for leisure
- 191 purposes in 60-69 year olds, including shopping, sport and entertainment, holidays and personal
- business (TfGM, 2019). Shopping and personal business trips fall for 70 years and over, but make up
- a higher % of overall trips made (TfGM, 2019). Visiting friends decreases for those aged over 70, as
- 194 does escorting others. Both are highly valued activities (Musselwhite and Haddad, 2010). Visiting
- 195 family and friends is cited in previous research as something older people want to do more of but
- are stopped by transport barriers (Mackett, 2018). This again is largely commensurate with the
- 197 national picture (Mackett, 2018)

198 Participants

Focus groups consisted of older people from the local area, recruited by local leads working with the community in that area. Each group had at least one additional stakeholder who worked locally with

- 201 older people. These stakeholders were people who ran local community groups that supported older
- 202 people's issues in the area and were either a paid community leader or in some cases a volunteer.
- This was done as these local experts would have a collation of issues and solutions about transport from older people with whom they had worked. This was intended to help generalise the findings to
- wider audience than the older people at the focus group, with the stakeholders drawing on wider

- expertise. Across all groups 45 older people took part, along with 8 people working with older
 people in the local community. The groups were held in convenient locations for older people to
 attend and how the participant arrived at the focus group was recorded. The majority of
 participants arrived by car as driver or passenger unless otherwise noted:
- The Bolton group had 9 older people (with 2 arriving by bus, 2 had walked) and 1 local
 worker. Four were male, 5 female. One was aged 80-89, 4 were aged 70-79 and 5 were aged
 60-69. Five had long standing health conditions.
- Bury had 5 older people (all arrived by car), with 1 local worker. Three were male, 2 female.
 All were aged 70-79.
- Oldham had 8 older people (all arrived by car) and had 2 local workers taking part. All were
 female. Five were aged 80-89, 1 aged 70-79, and 2 aged 60-69. All had long standing health
 conditions.
- Salford had 6 older people (2 arrived by bus and 4 lived at the venue) and 1 local worker.
 Three were male, 3 female, 3 aged 80-89 and 3 aged 70-79. Three had long standing health conditions.
- Tameside had 10 older people (3 arrived by taxi, 1 walked, 3 used the bus and 1 cycled then
 got the bus there) and 1 local worker. Five were male, 5 female. Three were aged 80-89, 5
 aged 70-79 and 2 aged 60-69. Three had long standing health issues.
- Wigan had 7 older people (2 arrived in taxi). and 2 local workers. Four were male and 3 female. Four were aged 80-89 and 3 aged 70-79. Three had long standing health issues.
- Hence some areas had more car users than others. People were encouraged to think of themselves as using the mode of transport discussed rather than their usual mode and to think outside of using the car. Hence for participants who still drove, discussions were caveated with "if you didn't have access to a car...".

230 Tools

The focus groups were semi-structured in terms of firstly using prompts on cards to present some 231 232 key issues and solutions to the participants, and then allowed scope for people to bring in their own 233 ideas. Literature identified previous knowledge on the topics which formed as a basis for the focus 234 groups. Cards were developed around the key issues and solutions identified in previous research for 235 each of the three levels of the age friendly transport model (Musselwhite, 2016, 2018). The 236 advantage of using a semi-structured focus group approach allowed the participants to add their 237 own issues after the cards were presented and participants were encouraged to do so t. A board was 238 presented for each topic covered that the cards could be stuck to. The board had dimensions on an x 239 axis of importance from highly important (on right hand side) to less important (on left hand side) 240 and transecting this a y axis of likelihood of that issue being present from highly likely (at the top) to 241 very unlikely (at the bottom). A grid resulted with issues in one of four zones (see figure 2). The 242 board was identical for prioritising issues on all three layers (neighbourhood, public and community 243 transport and policy and practice). A slightly modified board was used for the solutions, which had a 244 similar x and y transecting axes, with the x axis being ease of implementation (from easy on the

right, to hard on the left) and the y axis being effectiveness (from high at the top, to low at thebottom), again this resulted in a 2x2 grid as in figure 3.

247 Procedure

248 Each focus group lasted around one and a half hours. Each workshop got participants to prioritise a 249 list of key issues they have with transport in different domain outlined in the model of age friendly 250 transport. The cards were introduced and participants discussed them and then placed them on the 251 grid. The prioritization exercise forced participants to sort the issues and solutions across all groups 252 and give four levels of priority (from immediate priority to least priority) based on most common 253 responses (caveats are given where appropriate) based on importance as a barrier to getting out and 254 about and frequency of occurrence. After each new card was added participants were able to shuffle 255 the cards on the board around. At the end when all cards were produced, participants were asked if 256 anything else needed covering. They had one final look at prioritisation and came to an agreed set of 257 priorities. For solutions, a similar grid followed with slightly different categories – participants were 258 asked to place in order of potential impact and then in terms of ease of introduction.

259 Analysis

All focus groups had their audio recorded and the final agreed charts captured using photographs. A 260 261 basic thematic analysis took place on the discussion taking place during the sorting exercises to bring 262 together key themes and messages. The coding was a mixture of emic and etic, based both around 263 what would be expected to be found based on previous research, while also capturing new findings 264 and making new themes. Alongside this was the value given by the participants on the final charts of 265 each 2*2 grid. There was often strong agreement both within and between groups, which helped 266 keep the overarching collated priority order quite clear. Where there was contention however, this 267 is brought out in the text of the findings along with justification for their final position in the 268 protestation.

269

270 Findings

271 Findings are discussed under each of the three levels of age friendly transport (as seen in figure 1)

272 (Musselwhite, 2016). Then within each level, the findings are discussed as prioritised by older people

themselves in the focus groups. Lack of audible traffic lights was a topic developed by participants

themselves in Tameside as an important but slightly less common issue, all other topics were

275 presented by the researcher but embellished by the participants themselves as discussed below.

276 Neighborhood level and walking

Older people within and between focus groups almost unanimously placed the order of priority the
same for the neighbourhood walking level (see figure 2). These were placed in order starting with
top priority being around poor quality of pavements, followed closely by obstructions on the

280 pavement and sharing the pedestrian space with others, including cars, bicycles and mobility

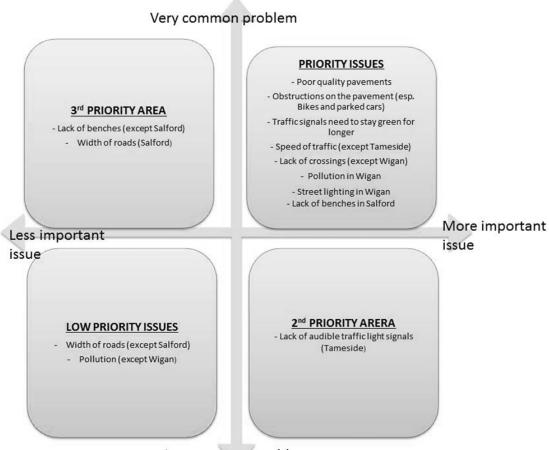
281 scooters.

- 282 "as a pedestrian you struggle past these illegally parked cars" (Bury, male, focus group).
- 283 "near misses you know, terrible, police don't do anything about it, turning pavements into
 284 roads" (Salford, male, focus group)
- 285 Buses were added to this list for Oldham, but not other groups.
- 286 "buses come so fast legitimately into that area", (Oldham, female, focus group)

The third prioritised issue was pedestrian crossing times, followed by speeding traffic (except for those in Tameside, who although felt it was prevalent believed it to be less of an important issue than other groups). The quality of pedestrian crossings was next priority. People tended to agree

- than other groups). The quality of pedestrian crossings was next priority. People tended to agree that there was a general lack of enough pedestrian crossings and there was concern also about a
- 291 lack of dropped kerbs and also tactile surfaces on pavements, especially when it is poorly
- 292 maintained,
- 293 "You know the slabs for blind people. Those are very bad to walk on when you have mobility294 issues." (Tameside, female, focus group)
- Lack of benches and toilets were viewed as important but not that common a problem, except in
- 296 Salford where it was more of a problem. Older people in the Wigan focus groups noted two common 297 and important issues that other groups did not rate at all, street lighting and pollution.
- 298 "Pollution is a serious problem only when I am able to get out of Manchester does my
 299 chronic catarrh and sore throat stop for a few days." (*Wigan, female, focus group*)
- A lower priority was given, though it was still an issue, to width of the road across all groups,
 especially when crossing the road is necessary,
- 302 "Our newest crossing that's a problem...you do go in places where there's a new crossing
 303 you do go my God how wide is it, because it's ever so wide" (Tameside, female, focus group)

304



305

Less common problem

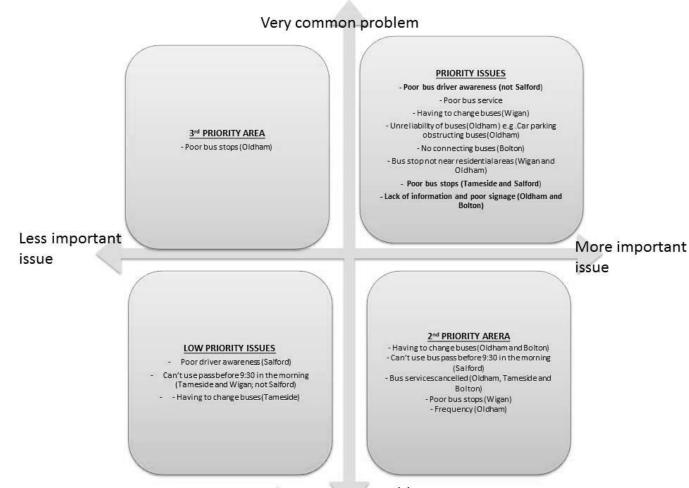
306 Figure 2: Priority issues for neighbourhood pedestrian level for older people in Greater Manchester.

307

308 Public transport use

309 As figure 3 notes the priority of issues surrounding buses are highly localised and differ among the locations the focus groups took place. Oldham participants brought in their own topics of 310 unreliability and obstruction of buses, bus stops not being near residential areas, all of which they 311 placed as key priority issues. They also brought in their own topics of having to change buses, bus 312 313 services being cancelled and poor frequency as less common but still important issues. Bolton also brought in not having connecting buses, they also place as a key priority issue, and bus services 314 cancelled as a secondary priority area issue (an important issue but less common). Participants in 315 316 Wigan also brought in the issue of buses not stopping near residential areas as a key issue. All other

317 topics were suggested by the researcher.



318

Less common problem

319 Figure 3: Priority issues on public buses for older people in Greater Manchester

320

321 There was common agreement across different groups that there was a lack of awareness among

322 bus drivers of older people's issues, typified by bus drivers driving off before the older person had

- 323 sat down on the bus,
- 324 "Some drivers can't wait for you to get in the bus and they're going...for me it's intimidating.
 325 You're frightened of falling" (Wigan, female, focus group)

326 Or not realising an older person might struggle getting on and off, for example taking longer, or

- struggling with bags and taking time to find and swipe the pass. They did acknowledge this was dueto the pressure the bus driver was under,
- 329 "They're on a timetable. The traffic is that bad and they're behind" (Oldham, female, focus330 group)

- 331 It was discussed that buses didn't stop close enough to the kerb, making it harder to board the bus.
- There was also anxiety about getting off the bus, where older people didn't trust the driver always to stop when the bell had pushed or wait for them to get up when the bus had stopped.
- This was followed by a variety of issues with the bus service itself including the bus stop not being near the main residential areas (especially in Wigan and Oldham),
- 336 "they changed it and they go on the main road and you have to walk it" (female, Wigan,337 focus group)

Buses being cancelled altogether or reduced in number (esp. Wigan) and the unreliability of the service was mentioned as an issue in Oldham. It was noted that there were issues between different operators when having to change buses. This was followed by poor bus stops and signage, especially in Oldham and Bolton. People talked about poor quality bus stops, lack of seating and in poor repair, but despite being a common issue, this was a lower priority issue than signage and information. The bus itself, the bus infrastructure, was an issue in Oldham, where it was noted how buses have drop down mechanisms that frequently fail and also noted a lack of grab rails on the bus both of which

345 were deemed important barriers to use.

346

Lower priority issues included, older people wanting to be able to use their free bus pass before 9.30
in the morning, which they currently can not do. This was especially an issue because of hospital
and doctor appointments at that time of the day. Though, there was acknowledgement that it helps
manage passenger demand,

351 "People getting to work you don't want them fighting with pensioners...We have all day... If
352 you make an appointment doctors and hospital and things like that they usually are quite
353 accommodating" (Wigan, female, focus group)

354

355 Community transport use

The key priority issue in community transport use is ambiguity over who can use the service. People discussed not knowing community transport existed at all. More commonly people had an idea of some of the services but had no clear understanding of the detail of the different types that existed. There is also evidently some confusion over who can use the services. Inconvenient and unreliability with the service making it impossible to do what they were using the transport for, were also noted but were of slightly lower priority,

362 "One of the block bookings for the lunch club arrived so late last week that the people on
363 Ring and Ride missed their soup. They have to pay for their dinner but they don't get it all."
364 (Oldham, focus group)

365

366 Policy and governance

The final area addressed in the groups was the influence of policy on transport issues. People across the focus groups wanted to be consulted in more detail about changes to transport system. Coupled with this was feeding back, including lack of confidence in reporting and time taken to make any changes was noted as very common and fairly important.

- 371 "Very important to consult people whether they take any notice is another
 372 thing....sometimes you get invited to a lot of these consultations and you go and you sit and
- 373 then you think what were the point because nothing's changed" (Bury, female, focus group)
- 374 "A lot of people think they have these consultations as purely tick box exercises" (Bury,375 male, focus group)

376 Underinvestment in areas outside of London was a very common and very important issue across

both groups. A non-joined up transport system was then seen as next most common but equally

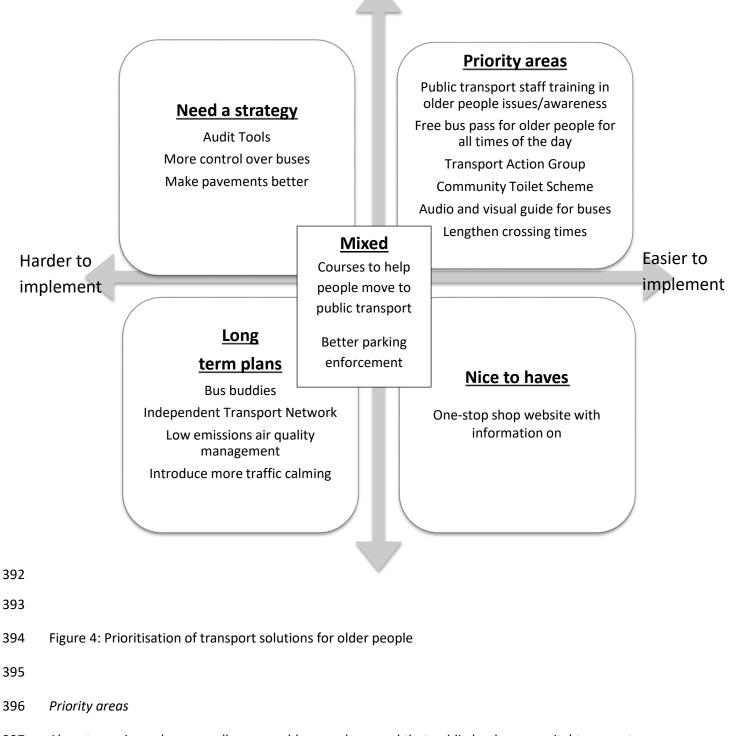
378 important issue. Underinvestment in the transport system was also noted from the Oldham focus

379 group.

380

381 Findings – Solutions

The solutions could be placed around four different groups based on their rankings made by the 382 383 participants. Priority areas are those that older people felt need to be done first and would have 384 highest effect. There were then two groups where a strategy would be needed in order to reach the goal and where a slightly longer term plan would be required. Finally, an area that would be "nice to 385 have" that would show only average levels of impact and would be hard to implement. There are 386 387 also a few solutions where groups couldn't reach an agreement, creating a mixed views category. 388 This is shown in figure 4. The solutions that were thought of by the participants were better parking 389 enforcement and introducing more traffic calming. These two solutions ended up in a category of 390 mixed views and longer term plans respectively. All others were presented by the researcher to the 391 participants in each focus group.



Almost unanimously across all groups, older people agreed that public (and community) transport

398 staff should be trained and have a greater empathy and awareness of older people's issues. This

399 was to overcome drivers driving off before the older person had sat down or not stopping to pick

400 them up. Older people felt this would be very effective and relatively simple to set up. One way of

delivering the training is to make it a mandatory requirement or to offer a kitemark style badge, "age
 friendly service" or similar. Training is provided and is undertaken by a variety of public transport

403 companies. Best practice would ensure older people, third sector and charities were involved in the
404 setting and delivery of such training. There should be some standardisation of training and also some
405 evaluation of the training.

Secondly, extending free travel for older people was wanted before 9.30am. It was felt not everyone could change the times they had to travel and making older people pay for something that had no choice on was unfair, so despite being a low down issue, a solution was highly priortised for the small number of people who may need it. The main reason for increasing the times the pass can be used was to help meet hospital or GP appointments, and to a smaller degree to help older people get out and about to go shopping and get necessities done and be back in time well before it gets dark in the winter.

The first of three solutions that emphasise older people as proactive, resourceful, and engaged is next; A local transport action group for older people to have a say over transport issues locally was the third priority solution. All three solutions where older people are proactive, resourceful, and engaged are viewed by older people as highly effective solutions, but this is the only one that was felt to be easy to implement and could happen immediately. The other two completing audit tools and having control over bus services are effective but need a strategy and are discussed below. All other solutions require older people to have the solution provided for them, rather than being

420 engaged in it themselves and these are found across the categories of solution.

421 The exact make-up of the Transport Action Group wasn't discussed in detail; moreover it was about

422 collective action to lobby for changes in transport and mobility. There was a feeling that these

423 groups should move beyond traditional tokenistic "nodding shops" and should be more about

424 "building relationships" with older people as opposed to "hit and run" consultations or "complaint

425 fielding". There is also a need to draw on a wider sample of older people in such groups and not just

426 involving the regular, confident groups of older people who are often involved in public groups.

427 Older people felt an easy solution and quick win would be to run a community toilet scheme where428 local businesses allow the public to use their toilets in exchange for a fee from the local authority.

429 Older people wanted extra information at bus stops and onboard buses to help with their journey. In

430 particular they wanted audio information to accompany any visual information which could be quite

431 hard to see for many people. Two concepts were discussed, audio bus stops and talkative bus stops.

432 Audio bus stops, announce times of next buses and are set up as beacon and hub so only connect

433 with people who need it (on mobile phones for those blind or partially sighted for example).

434 Talkative bus stops are fitted with location-based services, sensors/beacons, mobile apps and

435 intelligent digital signage. People will check-in to their bus stop and let bus operators know they are436 waiting for their service.

437 Older people wanted crossings that allowed extra time for them to complete before going back to
438 green to allow traffic to proceed. Solutions discussed included technology assists such as having a

swipe card to use at the crossing, as is found in Singapore, and an app which alerts the crossing to

440 give extra time and to simply using infra-red technology or zebra crossings to lengthen the time.

441 Mixed feelings

There were mixed feelings around two concepts, making pavements clutter free and providing 442 443 courses for older people to help them give-up driving and move to other transport. Older people felt 444 increased enforcement and even a change of law to help make pavements free from obstacles 445 including street furniture and bins but especially cars and cyclists, though many acknowledged this 446 was not easy to do. Older people felt a course to help older people give up driving and use public 447 transport would be of some use but different groups gave different responses to the effectiveness 448 and ease with which it could be implemented. A mixed response included feeling people wouldn't 449 want to do the course,

450 "If my dad were alive when he had to give up his car I wouldn't like to tell you what he'd451 say" (Bury, female, focus group)

452 Strategy plans

Solutions that were felt to be highly effective but were not at a stage they could immediately be 453 454 implemented were placed in a category that would require a strategy before they could be 455 implemented. These included two solutions which involved older people in the solution itself. For 456 example, older people would very much welcome the opportunity to audit their own local area in 457 terms of barriers to transport, but having a system where that went beyond tokenism and got 458 listened to by people who could make a difference would require changes in strategy, policy and 459 possibly law. Similarly, reforming local bus services and allowing more local user involvement in 460 running the services was appealing but would require more strategic planning to work. General 461 improvements to pavements, keeping them well maintained, wide enough and having enough 462 crossing points, was a third area, albeit one of less direct involvement of older people, where more a 463 more detailed strategy or plan was needed to reach the goal.

464 Longer term plans

These were the solutions that older people felt would have moderate success but would require 465 longer term planning. At the top of such a list was a buddying support system. A support system 466 467 for new users of public transport or walking, in terms of a buddying system. Older people thought 468 having a scheme where confident users could help less confident users. This was followed by an 469 Independent Transport Network (ITN). One way of overcoming the burden and retaining a form of 470 independence is available through options such as volunteer car-pooling and journey-sharing 471 (Whelan et al., 2006). Freund (2003) proposes an innovative alternative where older people who can 472 no longer drive their own cars "sell" their car to a not-for-profit community-based organisation, the 473 Independent Transportation Network[®] (ITN). The car provides credit and funds volunteers who 474 provide door-to-door transport, in a donated car, in a close approximation to the flexibility and 475 comfort the individual used to enjoy as a driver (Brown, 2010). ITN schemes are now available in 476 many states of North America. Older people tended to think this was of generally limited benefit, 477 with plenty of alternative opportunities to mobility and would rather have seen public transport 478 improved. Older people did not really see the value in local emissions plans in relation to ageing, 479 with direct and tangible changes in provision being preferred over a wider action plan. Many older

- 480 people in the focus groups did not link pollution to an issue older people would have anyway. Traffic
- 481 calming was suggested by participants themselves in two of the groups, Salford and Wigan, but in
- 482 both cases although it was felt they were successful at reducing speeds there were concerns about
- reducing emergency vehicle time, causing pain to older people who may have long-term pain, such
- 484 as back pain and making bus journeys more uncomfortable or even meaning bus routes would be
- altered away from roads with them on, with examples given. Both groups concluded they were a
- 486 solution to be used if other solutions had been unsuccessful.

487 Nice to have

- 488 Older people discussed a one-stop shop of information on transport services and provision for older
- 489 people themselves and for people working in the field that might include statistics, latest reports,
- 490 share best practice, include blogs and advertise events. Older people felt this would be easy to
- 491 implement but be of limited value. To have any effect at all it needs to be written by older people.
- There was a feeling among the older people themselves that it was of less value to older people who
- 493 were less likely to have the Internet or be using smartphones in the first instance.

494

495 Discussion

496 In prioritising key mobility barriers, there was more agreement between groups on the 497 neighbourhood level and the order of priority was similar across groups. This is interesting given the 498 opportunities that exist for local variation, natural elements such as topography and historical 499 elements such as pavement and road layouts, which even if present is obviously not influencing 500 older people's ability to use space differently. Moreover, people felt that poor quality pavements, 501 sharing the pavements with others and poor quality crossings (slight higher priority over timing than 502 location). Speeding traffic was an issue everywhere except Tameside and lack of benches and toilets 503 the next most important and prominent issue everywhere but Salford. As might be expected these 504 key and most prominent issues are all very practical barriers and are to do with concerns over safety, 505 sharing and continuity of activity. People are very worried about having accidents in terms of having 506 a fall, associated with poor quality surfaces, about being knocked over by passing cyclists and 507 mobility scooters and crossing the road and coming into conflict with vehicles. The high concern for 508 falling on pavements suggests pedestrian accidents involving falls should be collected and counted in 509 the road accident statistics, even when no other vehicle is present, echoing calls by Methorst et al 510 (2017). This would help the issue gain prominence and aid local authorities in prioritizing and 511 resource interventions and solutions to it. Participants did not readily see an easy solution to the 512 issue of poor pavements with auditing the area and improving pavements being seen as being a 513 lower priority solution requiring strategic investment.

514 Sharing the pavement with others is a known barrier (Musselwhite, 2018) but this research

- 515 emphasized just how important this was and discussed different situations and contexts of those
- barriers. The concern again was largely over safety, being knocked over by cyclists or mobility
- 517 scooters using the pavement, especially when they felt they would not always be aware of their
- 518 presence. Cars parked or too much street furniture would push them into the road to complete

519 journeys adding to the dangers. The concern for getting knocked over by cyclists seems unfounded. 520 Of the 448 pedestrians killed in 2016 in England (DfT, 2016), only 3 were caused by cyclists and only 521 108 pedestrians were seriously injured by a bicycle, compared to 4,156 by a car. Older people are 522 most worried about the impact of cars when crossing the road, even at formalised pedestrian 523 crossings. The findings here echo previous research on how a poorly sited crossing (Lord et al., 2010; 524 Zijlstra et al., 2007) or crossing with a lack of time to cross the road (Asher et al., 2012; Musselwhite, 2015b; Newton and Ormerod, 2008)can be a barrier to older people walking. This research shows it 525 526 is a high priority issue. Older people discussed improving crossing times by having better infra-red 527 technology to aid crossing, not allowing the lights to turn back green for vehicles to proceed until the 528 pedestrian was out of the carriageway and clear of the crossing. Holding a card or possessing a 529 mobile phone app which alerts the crossing to give extra time was also discussed as potential 530 solutions to this that would be relatively cheap to install.

531 Lighting and pollution was less of an issue, with both being noted only as issues in Wigan. Previous 532 research discusses issues with lighting effecting older people's feelings of safety (Shumway-Cook et 533 al., 2003). Given the urban nature of the work it is likely most roads and pavements will be well-lit 534 and different level of priority might be found in more rural areas without street lamps. It is unknown 535 why this was more of an issue over lighting in Wigan; an audit of the lighting by older people would 536 help offer clarity on the issue here. Similarly data on air pollution for the Greater Manchester area 537 offers no solution as to why people in Wigan would cite pollution as more of an issue than other 538 areas had done. Again, microscopic level audit would help identify specific place based experiences

539 of pollution

540 In contrast to the homogeneity seen at the neighbourhood level, there was high local variation in 541 the most important and most prominent issues on local public bus use, showing how varied the 542 services are between different locations. It is not all that surprising to then find older people wanting 543 greater parity across services with an integrated local authority approach controlling the quality of 544 the bus services on offer. They acknowledge this would take a while to happen, but believe it would 545 make significant impact. Hence, moves to bring greater control over local public transport is 546 recommended to be pursued. This shows that an age friendly transport model developed by Musselwhite (2016) needs to perhaps dissect the categories into further sub-categories to help 547 548 explain variations in the area better. Perhaps the use of Musselwhite and Scott (2019) mobility 549 capital could be used to show differences in infrastructure, social, cultural and individual capitals can 550 explain variances at different levels. For example, the differences in bus service provision in different 551 areas being an example of infrastructural capital available to people. Differences in responses were largely due to location, but this is likely to be a facet of the methodology where the focus groups 552 553 tended to mask these differences as discussions took place and it is likely age, gender and access to a 554 car could result in different responses. Future research may like to look at using interviews to look at 555 such differences or focus groups set up around age, gender and access to a car within each location.

There was strong agreement, however, among all groups, with the exception of Salford, that the most important issue was bus driver attitude and behaviour, where they have an awareness and a positive attitude towards older people's issues, which has been highlighted as an issue in previous research (Age UK London, 2011; Broome et al., 2010; TfL, 2009). Again fear of falling is an issue with

- 560 concerns about the driver driving off before the person has sat down or passengers feeling they 561 need to stand while the bus is travelling before it reaches a stop to show to the driver they need to 562 alight. Further exploration of this issue in the solutions section of the focus groups echoed this as a 563 key issue that needs and could be resolved quickly and effectively with staff training. It is suggested 564 such training is extended to other public transport sectors, for example railway employees on train 565 services and stations, and moves beyond just training frontline staff to management too which 566 would help embed the attitude in the culture. Although there are examples of such training, 567 research is needed into what such training should contain and how it should be delivered and 568 whether such training would indeed be effective. Following the research into such training, it is 569 suggested that "kitemarking" the quality of such training would help with parity and that older 570 people should be involved in its writing and delivery.
- 571 As Broome et al (2010) found in Australia, the information provision about bus services is important
- 572 to older people. Exploring this again in the solutions section echoed the importance of bus stops
- 573 presenting the information in different formats, for example using audible next bus information for
- 574 those who struggle to read the timetables. Lack of seating and poor quality bus stops were less of an
- 575 issue but still important. The bus itself not lowering to allow people on was noted as a barrier, as
- 576 had been found previously with the TfL (2009) research; although given this study is 9 years on from
- 577 then it is a shame to see technology had not improved much and can still fail.
- 578 In the UK, older people get free travel after 9:30am in the morning, in order to help disperse people 579 using the buses away from peak times. The suggestion is that older people's travel is less likely to be
- needed at those hours, and there was some acknowledgement of that from participants. However,
- 580 581 our research suggested that there were occasions where this is needed, especially around
- 582 healthcare appointments at hospitals. Perhaps, it is more of a case of joined up thinking where
- healthcare takes more responsibility for how patients access appointments, moving them to outside 583
- 584 of peak hours or co-ordinating patient transport.
- 585 Community transport was hugely valued but there were two main concerns, that it was not clear
- 586 who could use such services, echoing previous research (Musselwhite, 2018c; Parkhurst et al., 2014;
- 587 Ward et al., 2013) and that it is inconvenient and unreliable transport with some examples of it
- running late, of not giving enough time for people at destinations and difficulty with booking. 588
- 589 In terms of policy and practice based people wanted to have more say in their local transport. There
- 590 was an overwhelming feeling that transport decisions were made with little regard for the people
- 591 who they effect and that methods of consultation were inadequate. In the solutions this was picked
- 592 up with various ways of getting more involved, including auditing, using tools such as Older People's 593 Residential Assessment Tool (OPeRAT; Burholt et al., 2016) and formation of groups, but the
- 594 importance of feedback on their involvement from the decision makers was crucial.
- 595 There is some interesting insights into how not all transport issues are perceived as an issue by older
- 596 people. Pollution is an example of this, known to be an issue for people with increased respiratory 597
- and heart problems and more likely to effect older people, yet not seen by the people in the groups
- 598 as much of an issue. This highlights another theme found throughout the groups, a constant tension
- 599 between older people as frail and needy and older people as resourceful, proactive and engaged.

- 600 This makes the transport offering difficult to achieve, schemes aimed at plugging deficits seen in
- older people can be met with derision, like the support group for those giving up driving, but doing
- nothing can also be met with a feeling of being left out, of being misunderstood or ignored. This is
- 603 why more involvement of older people along with more dialogue between transport policy and
- 604 providers and older people is needed.

605 Conclusion

- The research has been successful in developing a priority order for the key issues and solutions
 facing older people with regards to mobility and transport, but it would be interesting to repeat this
- 608 research in different locations to examine whether similar patterns emerge. The findings suggest
- 609 neighbourhood level issues for walking and cycling are similar across different locations, but that
- 610 public and community transport issues vary between locations. It would be interesting to see how
- 611 far such findings could be generalised to areas outside of Greater Manchester. The areas are typical
- of large towns close to a large metropolitan area, but how far these might be generalised for
- 613 suburban or rural areas would be interesting to examine. For example, would rural areas where
- 614 there are fewer pavements and fewer bus services find similar prioritisation? In addition, it would be
- useful to look at disaggregating the findings by background for example by age, gender, access to a
- car or long-term condition, for example, or by mobility capital (Musselwhite and Scott, 2019) to add
- extra granularity to the findings. A wider sample of older people would also be useful. The researchnaturally engages with participants who are socially adept and already motivated to want to make a
- 619 difference, therefore the emphasis on a solution around getting older people involved in helping
- 620 shape transport decisions might be skewed by those who like getting involved in civic affairs.
- 621 Nevertheless, there is a growing emphasis on citizen involvement and co-production with planning
- and design of neighbourhoods (Buffel, 2018; Buffel et al., 2015) and transport is naturally part of this
- 623 process, though has largely been ignored from such debates until now.
- 624 The success of the project is shown in that the findings have been developed into recommendations
- 625 for Transport for Greater Manchester (see TfGM, 2018). These involve those stemming directly from
- this research including: (1) Involving older people in decision making about their transport and
- 627 mobility; (2) Improving accessibility of transport, including pavements and public transport; (3)
- 628 Working in collaboration with the health sector to promote active travel; (4) Giving public transport
- 629 staff better training; (5) Better promotion and coordination of community transport and; (6) Making
- 630 sure walking and cycling is key to developing age friendly communities

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