

Don't ignore the mobility scooter—it may just be the future of transport

October 13 2017, by Thomas Birtchnell, Gordon Waitt And Theresa Harada



Mobility scooter user Linda Thompson. Credit: Paul Jones/University of Wollongong, Author provided

Nationals senator John Williams <u>wants to</u> limit the speed of mobility scooters.

His campaign shines a spotlight on an often overlooked piece of technology, one that could offer lessons for our transport future.



A mobility scooter is a single-person electric vehicle with three or four wheels, for use in pedestrian areas, often by older people or those with disabilities. But they are more than just outdoor wheelchairs. They're one of the only purely <u>electric vehicles</u> in widespread use throughout Australia.

According to the <u>mobility scooter usage and safety survey report in 2012</u>, 13 in 1,000 Australian adults use them – that's about 231,000 people.

Our initial research on mobility scooters examines their role as a transport alternative, as well as their legal and functional ability to operate on both road and footpath.

As governments around the world commit to electric vehicles, they will need to come to terms with a range of alternatives to the traditional fourseater, long-range, large-footprint automobile. The mobility scooter offers a vision of what this future might hold.

Talking about a (transport) revolution

Are mobility scooters harbingers of a future where small and versatile electric vehicles roam our cities?

General Motors, for one, has advertised a vision that includes small single- or dual-occupant electric city cars. They could network with the smart city, platoon together in groups, charge while waiting at the lights, or even attach to a train or bus similar to a bicycle.

So how do we get to this future? Those with any current experience of mobility scooters will know the experience is far from seamless, smart or integrated.

Mobility scooters operate in contested spaces, with many infrastructural



and legislative oversights – dangerous driveways, <u>nature strips</u> and poor footpath maintenance – that make the streets unsafe or challenging to negotiate.

Our cities were built with large petrol-fuelled cars in mind, but this needs to change, and the experiences of mobility scooter users show us how.

The road, or footpath, ahead

As this video of a mobility scooter user shows, sidewalk obstacles mean they often have no other option but to use the road.

Our research with mobility scooter users suggests they adapt to these difficulties in three key ways:

- **Improvisation:** due to infrastructural oversights no lifts at train stations, for example users need to rely on their own strategies to plan and make journeys. In some cases, this means they adopt unsafe practices that are difficult to legislate for effectively, such as travelling on the wrong side of the road to bypass missing footpaths.
- **Capability:** mobility scooter users show innovative and resilient qualities. Users often have the ability to "bounce back" from accidents or mishaps and continue to experiment and innovate despite obstacles, such as intersections where deep kerbs prohibit road crossings.
- **Customization:** the alignment of movement with individual freedom is a key factor in private transport modes, and mobility scooters are no exception. Styling vehicles with flags, banners, lights, decals and music speakers is more than cosmetic. Personal touches show how users can "co-create" and "design out" infrastructural shortcomings and reject stigma.



It makes me feel independent

Will lower speed limits deter these drivers or force them to conform to a built environment that excludes them?

Put too much pressure on them and they could simply bail out entirely. Leaving the scooter in the garage will have knock-on consequences for their health and well-being.

After all, mobility scooters mean freedom. As one of our interviewees made clear:

"...it makes me feel independent that I can go and do my own thing without having to worry about somebody coming to pick me up..."

Risks emerge from limiting mobility scooter freedoms by <u>regulations</u> on maximum wattage or speed, as less power and speed defeat the electric vehicle's usefulness for navigating treacherous terrain.

Rather than restricting mobility scooter use, resources would be much better spent on making cities "smarter" and more sensitive to all citizens' needs. Otherwise, transport disruptions are inevitable.

The need for speed

The reputation of mobility scooters is that they are <u>transport mavericks</u> – neither regulated nor unregulated. They operate in the grey area usually reserved for technologies such as the ill-fated hoverboard, which is now largely illegal on roads.

With climate change and other pressures demanding changes to everyday travel practices, a version of the mobility scooter could be the car of the



future.

At the moment, they are neither welcome on the pavement nor the road, placing them in the same contentious position as bicycles.

Continue the conversation. If you work for government, council, a nongovernmental organisation or charity managing mobility <u>scooter</u> use, the authors would like to hear from you.

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