

eRideable Devices

29 October 2021



**ROAD
SAFETY
COMMISSION**

The Presentation


Introduction <ul style="list-style-type: none">➤ What is an eRideable?➤ How have we got here?➤ Where are we heading?	Matthew Samson Assistant Director Policy and Legislation Road Safety Commission
Community Consultation	Lauren Bourke Community Engagement Officer Road Safety Commission
The New Rules	Rebecca Phandinata Senior Legislation Officer Road Safety Commission
Urban Mobility	Russell Greig Senior Policy Officer Department of Transport
Q and A	All presenters & Tony Lendrum Technical Services Coordinator (Policies, Practices and Guidelines) Main Roads WA Tanvir Asgar Traffic Technical Services Manager Network Operations

What is an eRideable?

- **eRideable** - small 'e' capital 'R' is the approved government writing style for reference in publications and media
- In legislation, they will be referred to as an **'electric rideable device'**
- eRideable definition
 - 1 or more wheels with an electric motor
 - Max speed capability of 25km/h,
 - maximum weight of 25kg
 - not more than 1250mm in length; by 700mm in width; by 1350mm in height

WHAT WILL BE CONSIDERED AN E-RIDEABLE DEVICE?

 E-SKATEBOARDS	 E-SCOOTERS	 EPTs (SEGWAYS)	 ELECTRIC BIKES
 E-WHEELS	 HOVERBOARDS	 MOTORISED WHEELCHAIRS	 MOTORISED SCOOTERS ≤200W
 E-UNICYCLE	 E-SKATES	<p>These devices are already governed by their own regulations under the Road Traffic Code 2000 and will not be included in the e-rideable device framework.</p>	

How have we got here?

- Current rules only accommodate low power motorised scooters (<200W <10kmh)
- Technology has improved and popularity increased
- 2019 – 2021 NTC project to develop Australian Road Rules
- New ARR approved by ITMM and published in May 2021

Where are we heading?

Road Traffic Code Amendment Regulations (No 4) 2021

- Amendments to the *Road Traffic Code 2000*
 - Provide a new chapter dealing rules for 'Electric Rideable Devices'
- Amendments to the *Road Traffic (Vehicles) Regulations 2014* and the *Road Traffic (Authorisation to Drive) Regulations 2014*
 - To remove the requirement to license the vehicle or driver.
- The Minister would like the rules introduced by the end of 2021 – currently planned for implementation on 4 December 2021

Community Consultation

Lauren Bourke



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Engagement hosted on Community Connect

1. User Survey

- Understand the who, what, where, when and why
- Purpose: For us to understand current behaviours/landscape and try to align the framework with how people realistically use these devices in WA.

2. Community Survey

- Sought community feedback about aspects of the proposed regulatory framework
- Purpose:
 - Understand level of community support
 - Identify any major issues we may not have already flagged
 - Shape our strategy for engagement and comms around legislation roll-out/implementation
 - Crowd-source innovative ideas

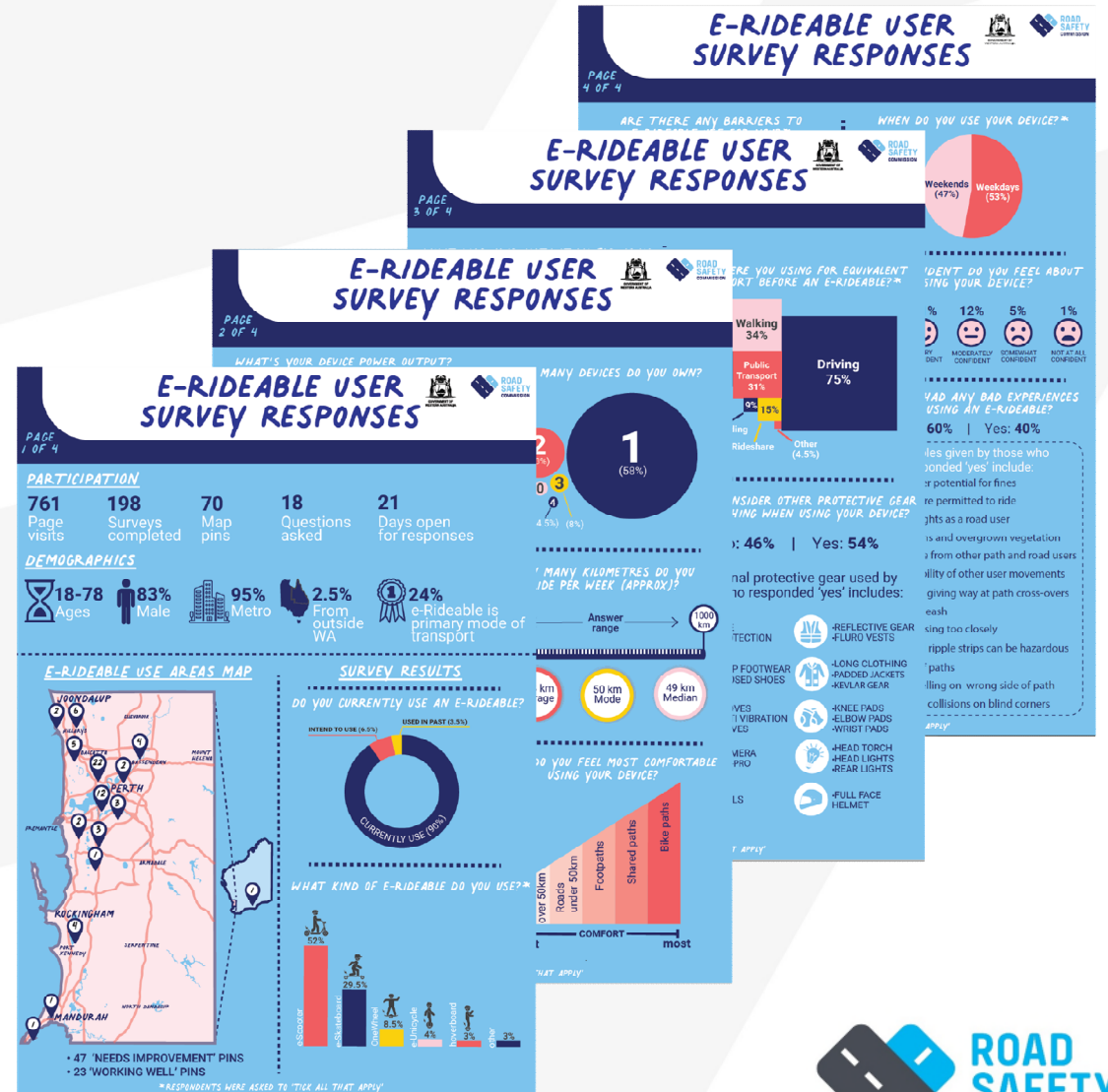
User Survey

Format: 18 questions (17 closed-ended & 1 open-ended)

198 respondents

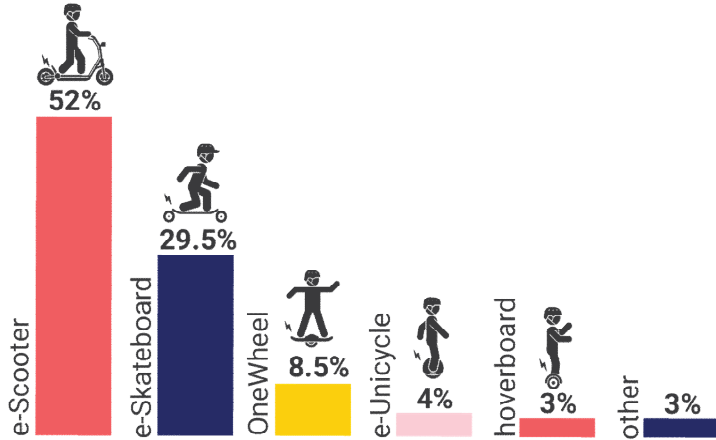
Questions around:

- Type of device(s), power output, number of devices
- Frequency of use
- Areas of use & areas most *comfortable* using
- Times of use (day of week/time of day)
- Distance travelled per week
- Motivation & barriers for use
- Mode(s) of transport being replaced
- Purpose device used for
- Protective measures (helmets, gear)
- Confidence in using device
- Awareness of existing rules
- Any adverse experiences using device

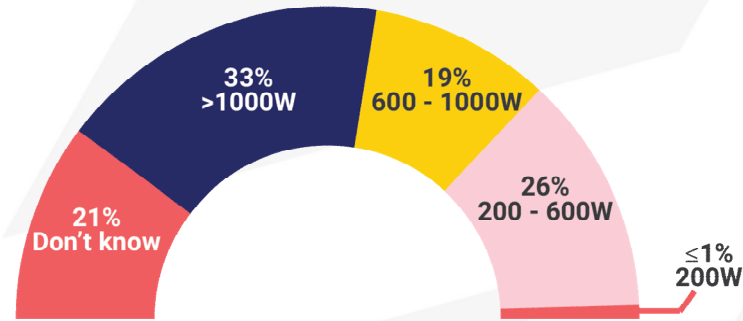


User Survey Insights:

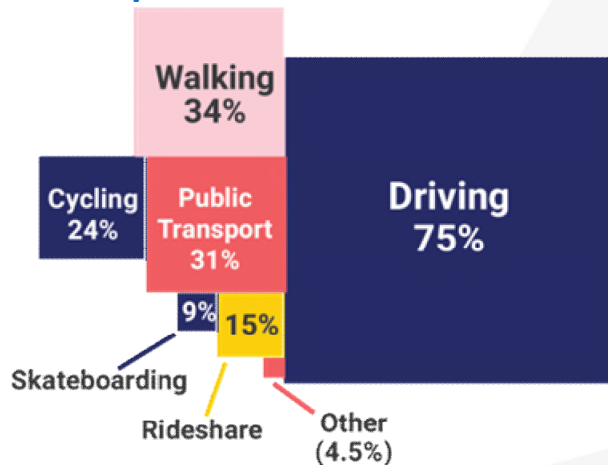
Q: What kind of eRideable do you use?*



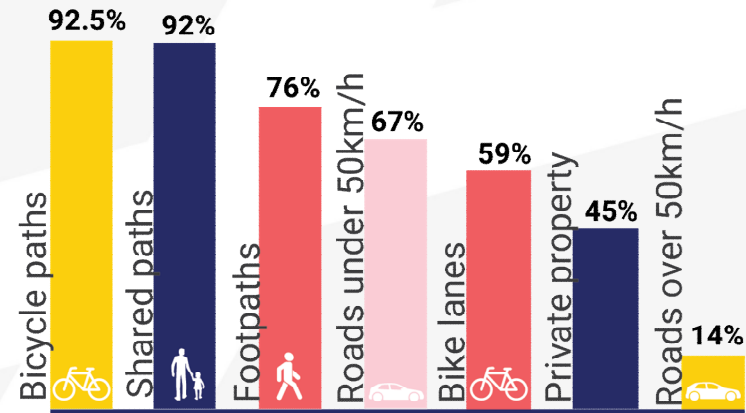
Q: What is your device power output?



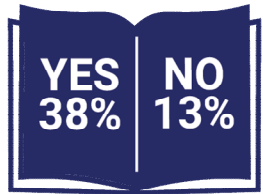
Q: What were you using for equivalent transport before an eRideable?*



Q: Where do you use your device?*



Q: Are you aware of the current rules around use of eRideables?

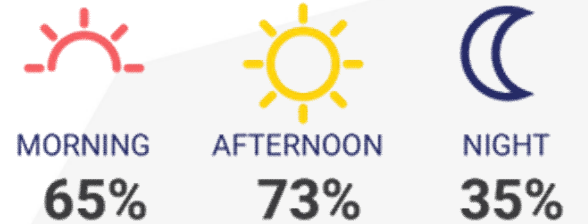


SOMEWHAT AWARE: 49%

Q: How many kilometres do you ride per week (approximately)?

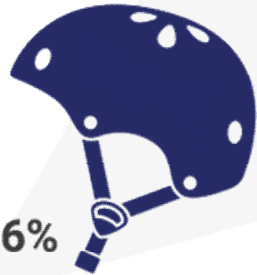


Q: What time of day do you use your device?*



Q: Do you wear a helmet when using your device?

- Yes: **87.5%**
- No: **6.5%**
- Sometimes: **6%**



Q: Do you consider other protective gear or clothing when using your device?



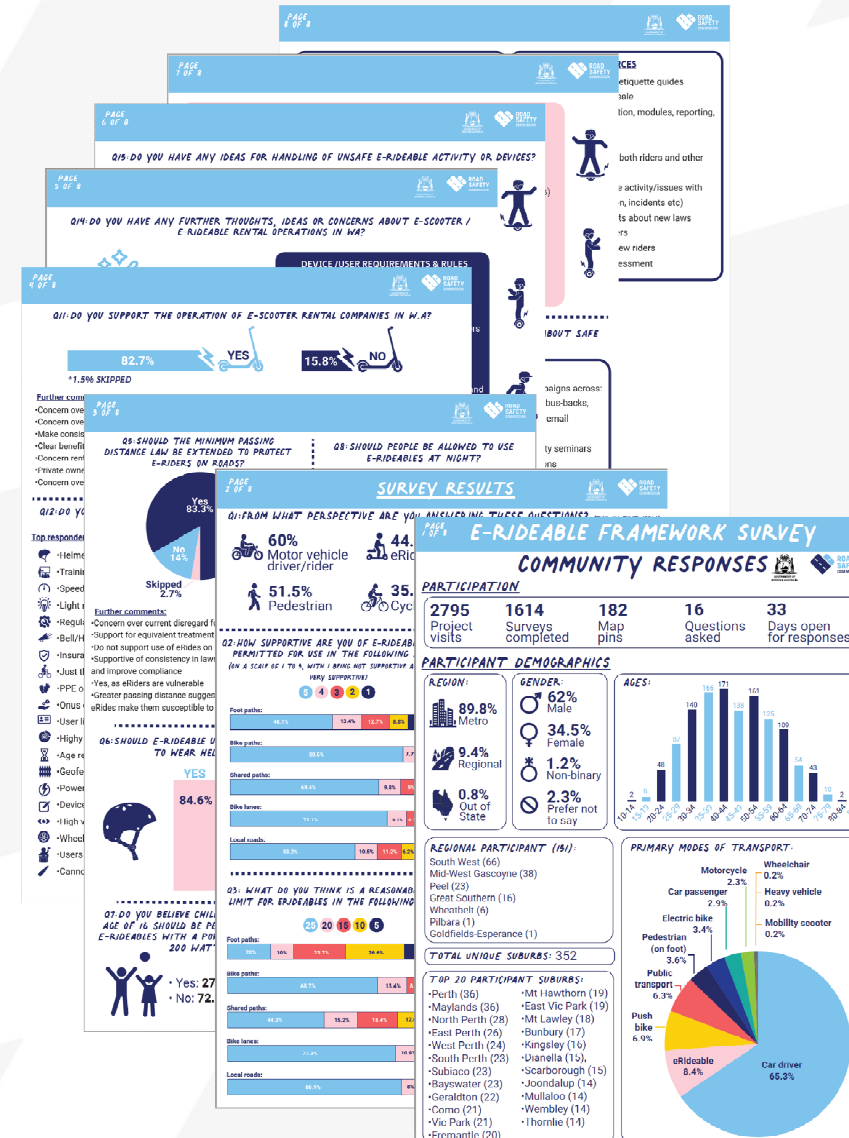
Community Survey

Format: 16 questions (8 closed-ended, 4 closed-ended but with option to add further comments & 4 entirely open-ended)

1614 respondents, 4582 free text responses

Questions around:

- Use areas
- Speed limits across use areas
- Minimum passing distance law
- Helmet use
- Age minimum
- Night use restrictions
- Light & reflector requirements
- Warning devices
- Rental company operations
- Reporting/enforcement
- Communication about using/interacting



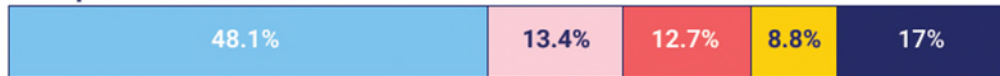
Community Survey Insights:

Q: How supportive are you of eRideables being permitted for use in the following areas?

(on a scale of 1 to 5, with 1 being not supportive and 5 being very supportive)



Foot paths:



Bike paths:



Shared paths:



Bike lanes:



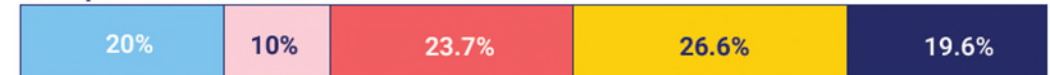
Local roads:



Q: What do you think is a reasonable speed limit for eRideables in the following areas?



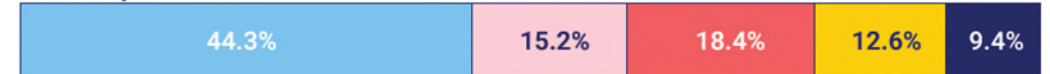
Foot paths:



Bike paths:



Shared paths:



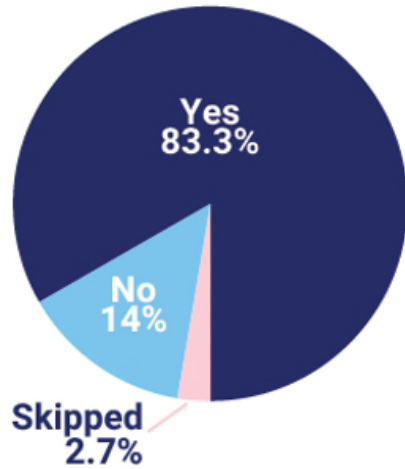
Bike lanes:



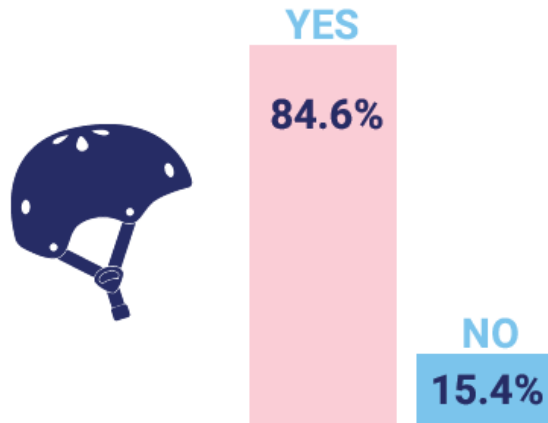
Local roads:



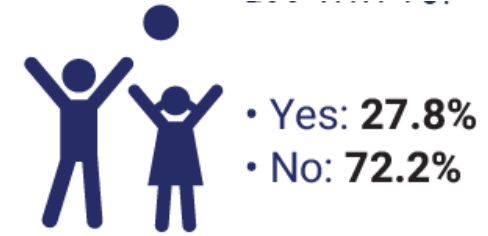
Q: Should the minimum passing distance law be extended to protect eRiders on roads?



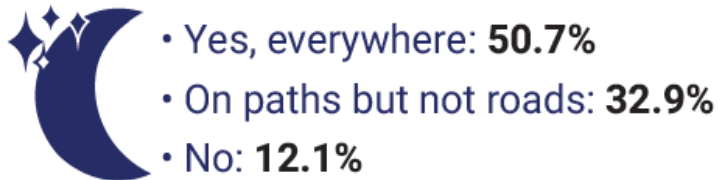
Q: Should eRideable users be required to wear helmets?



Q: Do you believe children under 16 years should be permitted to use rideable with a power output over 200 Watts?



Q: Should people be allowed to use eRideables at night?



Q: Should the same light and reflector requirements as bicycles apply to eRideables?

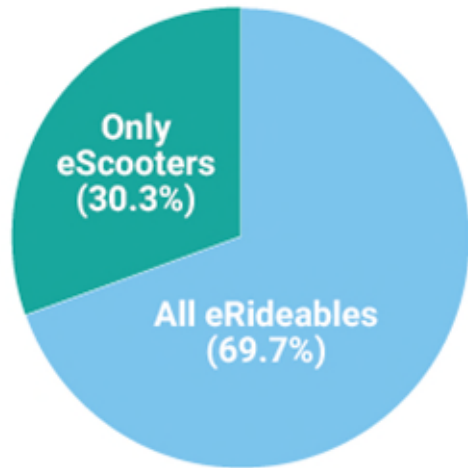


Q: Should warning devices also be required for eRideables?

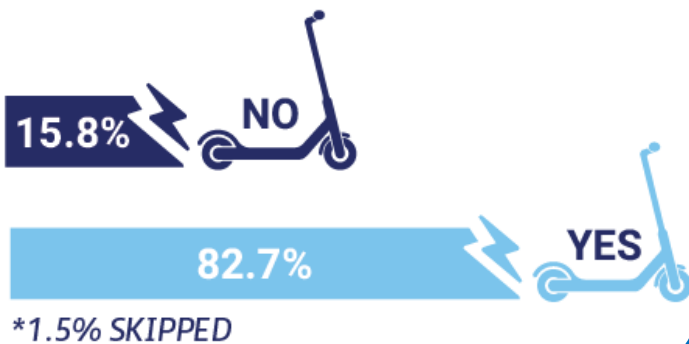


Rental Companies

Q: Do you think companies should be permitted to rent out all kinds of eRideable devices or just eScooters in WA?



Q: Do you support the operation of eScooter rental companies in WA?



Q: Do you believe there should be any particular safety requirements placed upon eScooter companies to protect their users?

Further comments:

- Concern over :
 - risk-taking behaviour on rented devices
 - renters not using safety equipment
 - 'littering' of rental devices
- Some respondents only support operation in certain LGAs
- Support if dedicated end-point infrastructure is in place
- Ongoing consultation with community & stakeholders
- Agreements around public transport integrations
- Ongoing infrastructure improvements
- Consideration to trial operations before a widespread roll-out
- Consideration to giving LG Officers/Rangers some enforcement powers

User Survey:



E-Rideable User Survey

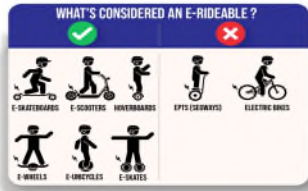
Are you an electric rideable user?

Electric scooters, electric skateboards, self-balancing wheels and similar devices have become very popular, more available and more affordable in recent years. We recognise that times are changing and the road rules in WA need to catch up to the rapidly moving technology we're seeing out on our roads and paths.

We're working on developing a framework to regulate these kinds of devices and are hoping to get some information from the people who are already using these devices, or intend to use them, so we can better understand the ways, what, where, when and why and make sure the framework we develop will keep everyone safe.

1. [Take the survey](#) below to tell us how you use your device.
2. [Use the map below](#) to share areas in WA you've found work well or are problematic for using your e-rideable.

These will be open for comment until **Monday 10th May 2021**



Once we've had a chance to hear your feedback and better understand how you use your devices, we will have a second consultation online with yourselves and everyone else who might be affected, to give feedback towards the proposed framework.

[Click on the flag](#) in the right panel for more information about why we're surveying the community and how we'll be using your feedback. Make sure you click the follow project button for updates!

Survey Map What You Said

CLOSED: This survey has concluded.

You and your device

We're hoping to get some information from the people who are already using electric rideable devices (scooters, skateboards, e-bicycles etc.) have used them in the past or are considering using them, so we can better understand the who, what, where, when and why.

This will help us to make sure the regulatory framework we develop will keep everyone safe and align with how Western Australians are actually using these devices.

If you do not currently use an e-Rideable but plan to in the future, please answer the questions as how you intend to use your device.

This survey should take approximately 4 minutes to complete. It will be open for contributions until **10 May 2021**.

TAKE SURVEY

f t y

Page last updated: 03 September 2021, 10:34

SURVEY RESPONSES



Click the image above to view the report!

Who's Listening

Community Engagement Team
Road Safety Commission
Phone: 1300 999 772
Email: communityconnect@rsc.wa.gov.au



STAY INFORMED

Subscribe for project updates

You're already following this project
Unsubscribe

FAQs

- What is an e-Rideable device?
- Why are we consulting about e-Rideables?
- How will my feedback be used?
- When can we expect the second phase consultation?
- What are the current laws for electric scooters?

Accessibility

If you require content in alternative formats please let the Community Engagement team know by emailing communityconnect@rsc.wa.gov.au or by calling 1300 999 772.



Community Survey:



Home - E-Rideable Device Framework - Community Consultation

E-Rideable Device Framework - Community Consultation

Have your say on the regulation of E-Rideable devices in WA!

Electric scooters, electric skateboards, self-balancing wheels and similar devices have skyrocketed in popularity over the past few years as they have become more available, affordable and viable alternative modes of transport.

Our road rules need to catch up to the technology we're seeing out on our roads and paths, so we're developing a dynamic framework to regulate these devices and keep everyone who shares the infrastructure safe.

This community survey follows a consultation with [E-Rideable users throughout April and May of 2021](#). This survey allowed us to better understand the types of devices being used, their prevalence, for what purpose they're used, where they're used, as well as other information about demographics and behaviours. These contributions have helped guide consultation of the framework so far, making sure it's appropriate for the Western Australian context.

The Road Safety Commission is now seeking community feedback about aspects of the proposed regulatory framework for E-Rideable devices in Western Australia. We are eager to get the perspectives of all road users, as these devices are being considered for legal use on a range of public infrastructure, and we want everyone to feel safe and protected in these road user environments.

1. [Take the survey](#) below to provide your feedback about aspects of the proposed regulations.
2. [Use the map below](#) to highlight areas of interaction between E-Rideables and other infrastructure users in WA.

These will be open for comment until **8am Monday 6 September 2021** (extended by 1 week) - NOW CLOSED

Check out the graphics below and the FAQs in the right panel for more information about E-Rideables, why we're surveying the community and how we'll be using your feedback. Make sure you click the follow project button for updates, and if you'd like to share the survey with your community, there are social media tips and posters available to download.

CURRENT LAWS

Only 'motorised scooters' are currently regulated & the following restrictions apply to their use:

- No night riding
- Helmet required
- Power output: 200W max
- Max speed: 10
- No travel on roads >50 km/h

Other types of E-Rideables currently require licences to be used legally on our roads and paths, and that's not always the case. Some don't comply with the above conditions or are illegal.

WHAT WILL BE CONSIDERED AN E-RIDEABLE DEVICE?

- E-SKATEBOARD
- E-SCOOTER
- EFTS (E-BIKE)
- ELECTRIC BIKE
- E-WHEEL
- HOVERBOARD
- E-UNICYCLE
- E-BEAT

These devices are already governed by their own rules and will be included in the e-Rideable device framework.

Survey Map What You Said

CLOSED: This survey has concluded. If you participated in this consultation, or subscribed for updates you will receive updates on the progress of this project via email. Otherwise, please check back on the consultation page!

E-Rideable Regulatory Framework - Community Survey

The Road Safety Commission is seeking community feedback about aspects of the proposed regulatory framework for E-Rideable devices in Western Australia. We are eager to get the perspectives of all road users, as these devices are being considered for legal use on a range of public infrastructure, and we want to ensure everyone feels safe and protected in these road user environments.

Examples of e-Rideable devices are E-Scooters, e-Skateboards, self-balancing wheels, e-Unicycles, e-Hoverboards, e-Skates and devices of similar proportions.

This survey should take approximately 3 minutes to complete.

TAKE SURVEY

f t y

Page last updated: 28 October 2021, 14:29

Custom

SURVEY RESPONSES



Click the image above to view the report!

Who's Listening

Community Engagement Team
Road Safety Commission
Phone: 1300 999 772
Email: communityconnect@rsc.wa.gov.au



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FAQs

- What is an e-Rideable device?
- What are the current laws for E-Rideables?
- Why are we consulting about E-Rideables and how will my feedback be used?
- What were E-Rideable users asked in the first phase consultation?
- What was said by E-Rideable users in the first phase survey?
- Why are electric bikes, EFTS and low powered 'motorised scooters' not included in the proposed framework?

Accessibility

If you require content in alternative formats please let the Community Engagement team know by emailing communityconnect@rsc.wa.gov.au or by calling 1300 999 772.



Promotional Materials

- Promotional Posters
- Social Media Promotional Tiles

Read full reports on Community Connect [Communityconnect.rsc.wa.gov.au](https://communityconnect.rsc.wa.gov.au)

What's next?

- Continue to update participants on progress of legislation
- Working directly with eRider groups to implement ideas of survey respondents
- Developing comms & engagement activities in line with survey responses



The New Rules

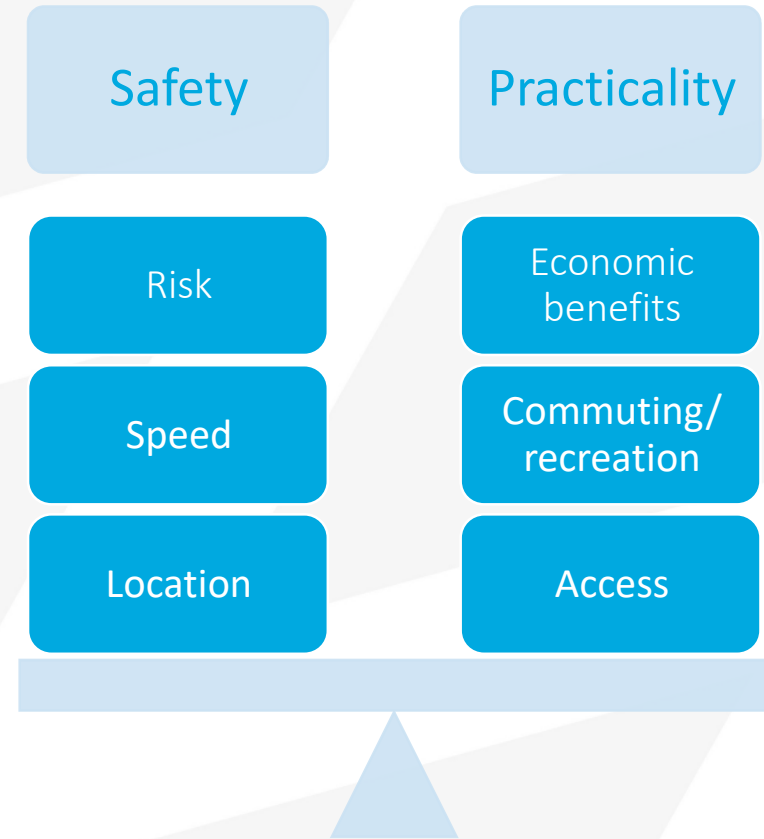
Rebecca Phandinata



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The New Rules

- Speed
- Infrastructure
- Safety Equipment
- General Rules

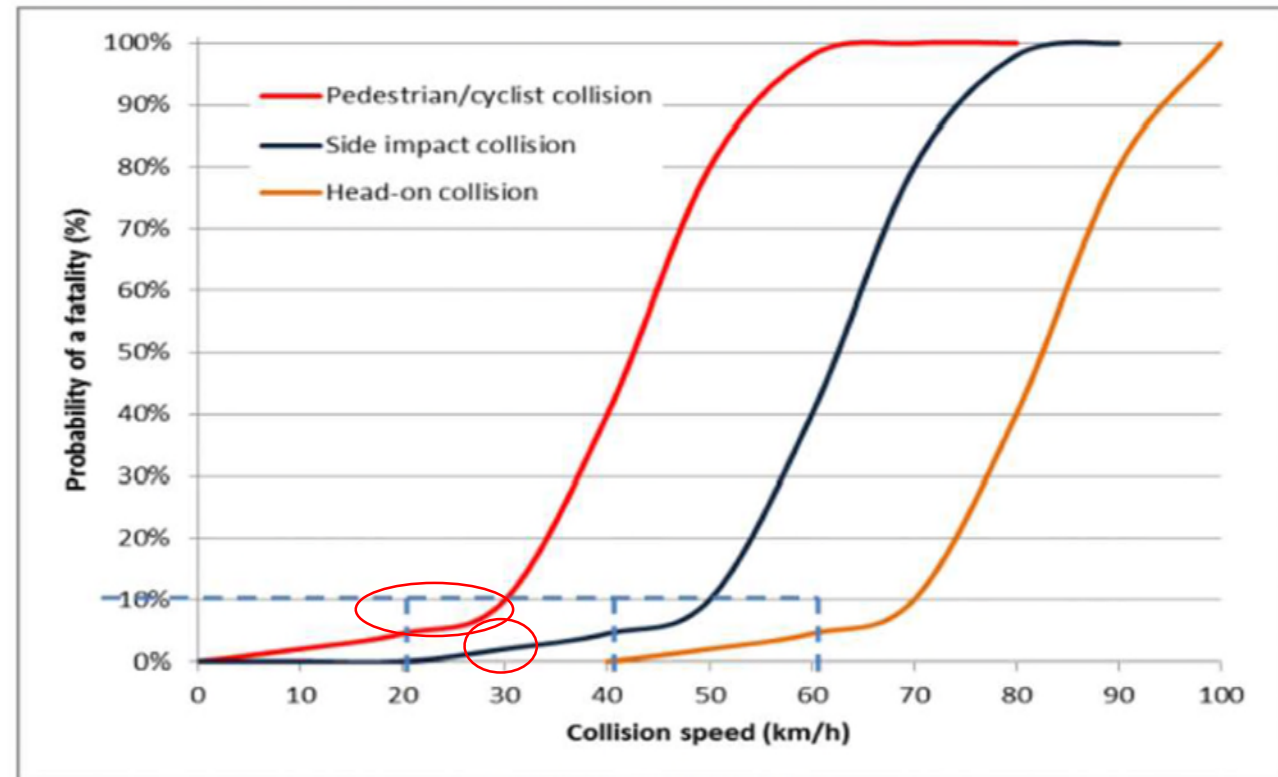


Speed- Impact forces and fatality probability

Safe system approach

The human body is vulnerable not built to withstand impact forces greater than 30km/h – any impact greater than 30km/h greatly increases the risk of dying.

Figure 2. Wramborg's model for fatality probability vs. vehicle collision speeds



Source: based on Wramborg (2005).

Pedestrians on foot and wheeled toys and wheeled recreational devices*



Low powered e-scooters (proposed)

10km/h on footpaths shared paths, separated paths, bicycle paths and Roads with a maximum posted speed of 30km/h*



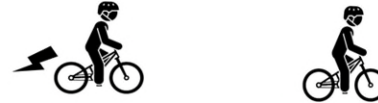
Other powered micro mobility devices (proposed)

Hoverboards, eScooters, powered unicycles, powered rollerblades, motorised skateboards

10km/h on footpaths
25km/h on shared paths, separated paths, bicycle paths and roads with a maximum posted speed of 30km/h*



Cyclists



Motor Vehicle Drivers



Electric Personal Transporters



*Wheeled toys and wheeled recreational devices are also able to travel on:

- a carriageway that does not have a dividing line or median strip;
- a one-way carriageway with no more than one marked lane; or
- on a carriageway with a speed limit not exceeding 50 km/h



5km/h

Walking

10km/h

Jogging

Running

25km/h

Bicycle Rider

50km/h

speed limit in built up areas

Average speeds

- Motorised wheelchairs, motorised mobility devices pedal, and power assisted bicycles are not included in this image
- Pedestrians and cyclists are not restricted to a speed
- Footpaths refers to paths that are not shared paths or the bicycle/pedestrian side of a separated path

eRideable conditions of use – Speed and infrastructure

10km/h speed limit applies to:

Footpaths (intersecting with driveways, are generally of varying standards)

25km/h speed limit applies to:

- Shared paths/ principal shared path (PSP's)
- Bicycle paths
- Local low speed roads:
 - with max speeds 50km/h
 - without a dividing line
 - that are a one-way carriageway with more than one lane
- Bicycle lanes on roads with max speeds 50km/h or less



Conditions of use

- Must keep to the left
- Must give way to pedestrians
- Display appropriate lights and display reflectors while riding at night
- Must be at least 16 years of age
- Must always wear a helmet while riding (bicycle or motorcycle helmet)
- Must use a warning device or verbal warning when approaching pedestrians

A stylized graphic of a road with dashed white lines on a dark grey background, transitioning into a white background with dashed blue lines, all set against a blue background.

Urban Mobility

Russell Greig



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Urban Mobility Hire Operators

- Contract management
- Access management
- Facilities



Contract Management Considerations

- Device compliance
- Acceptance of compliance with rules and conditions before riding.
- Helmet and lighting requirements
- Geo Fencing (speed/parking areas)
- Don't allow deployment of too many scooters
- Negotiate fees that will help with providing ongoing infrastructure and facilities
- Negotiate for data provision that may be useful for the

Access Management

- Geo Fencing for Hire Operators
- Signage
- Infrastructure changes
 - Barriers
 - Path types Foot/Shared/Bike
 - Bylaws



Facilities

- Parking
- Charging
- Other business opportunities
 - Servicing for private users
 - Tourism opportunities (tours etc)



A decorative graphic on the left side of the slide, consisting of two diagonal road segments. The top segment is dark grey with white dashed lines, and the bottom segment is bright blue with white dashed lines.

Thank you



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Q & A ?