

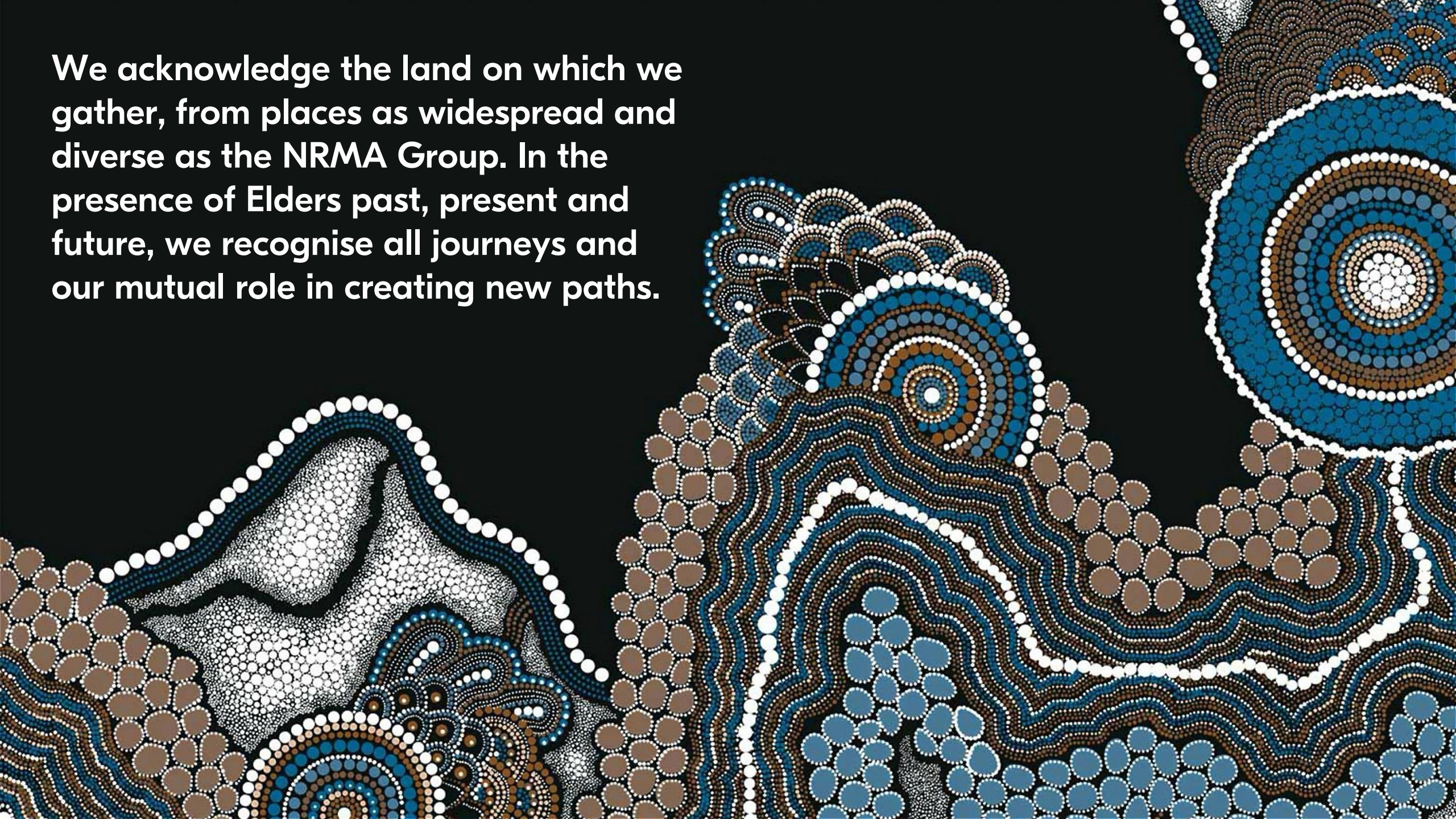


ROAD  
TRAVEL  
REWARDS

# Free movers – independent and resilient

Stage 4 Road Safety Education

We acknowledge the land on which we gather, from places as widespread and diverse as the NRMA Group. In the presence of Elders past, present and future, we recognise all journeys and our mutual role in creating new paths.



# Course content

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## 1.0 E-mobility and the law

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### 1.1 E-scooters

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## 2.0 E-bike maintenance and modifications

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## 3.0 E-bike road safety

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# E-mobility and the law

- ✓ Power-assisted pedal cycles
- x Petrol-powered bicycles
- x Private e-scooters

E-riders must comply with the road rules for bicycles.



# Cyclist road rules

- Wear a helmet
- Keep left and give way to pedestrians
- Have and use a bell on your bike
- Walk across pedestrian crossings, unless there is a bicycle lane, or a green bicycle light
- Ride on cycle paths, shared-use paths, and roads
- Riders under 16 can also use footpaths.
- Have a white light at the front of the bike, and a red light and a red reflector on the back



# E-scooters



Sustainable and accessible transport option



Currently illegal in NSW



- Slow down
- Wear a helmet
- Avoid uneven ground



# Infinite power

A rider must primarily propel the bike with the pedals.

## The electric motor:

- is intended to assist when riding uphill or into a headwind
- must cut off when the bicycle reaches 25km/h
- does not prevent the rider travelling faster with their own pedaling or going downhill
- can be used up to 6km/h before the rider must pedal.



# E-bike maintenance and modifications

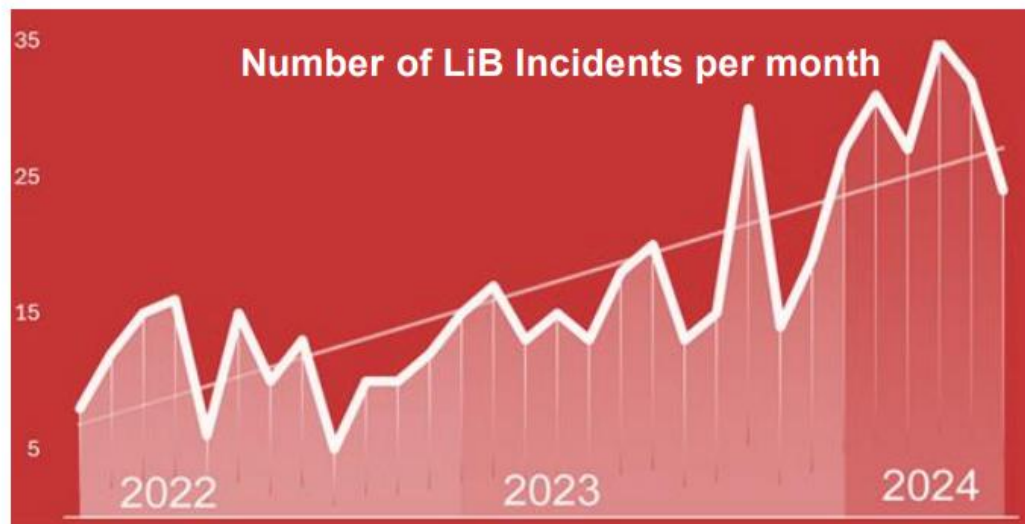
Modifying or 'tuning' e-bikes may not only be dangerous, it could be illegal.



# Fire risk

## INCIDENTS ATTENDED AND CASUALTIES

	2022	2023	Jan – Jun 2024	Total
LiB incidents	171	285	217	673
Injured persons	14	38	16	68
Fatalities	0	0	2	2
Evacuations	829	1320	677	2826
Rescues	3	3	3	9



## Fire and explosion incidents attended caused by lithium-ion batteries

2022	1 in 100
2023	1 in 76
Jan – Jun 2024	1 in 40



**FIRE +  
RESCUE**

# Battery safety

For more information visit  
[fire.nsw.gov.au/chargesafe](https://fire.nsw.gov.au/chargesafe)

NRMA ONLINE ROAD SAFETY EDUCATION

**Lithium-ion batteries are the fastest growing fire risk in New South Wales. Charge E-bikes and E-scooters safely to reduce your risk.**

! Don't charge when you're asleep.

! Don't charge in or near living-spaces like bedrooms or living rooms. Charge in an open area like a garage or shed, away from exits. Make sure you always have a working smoke alarm.

! Once the battery is full, disconnect it from the charger.

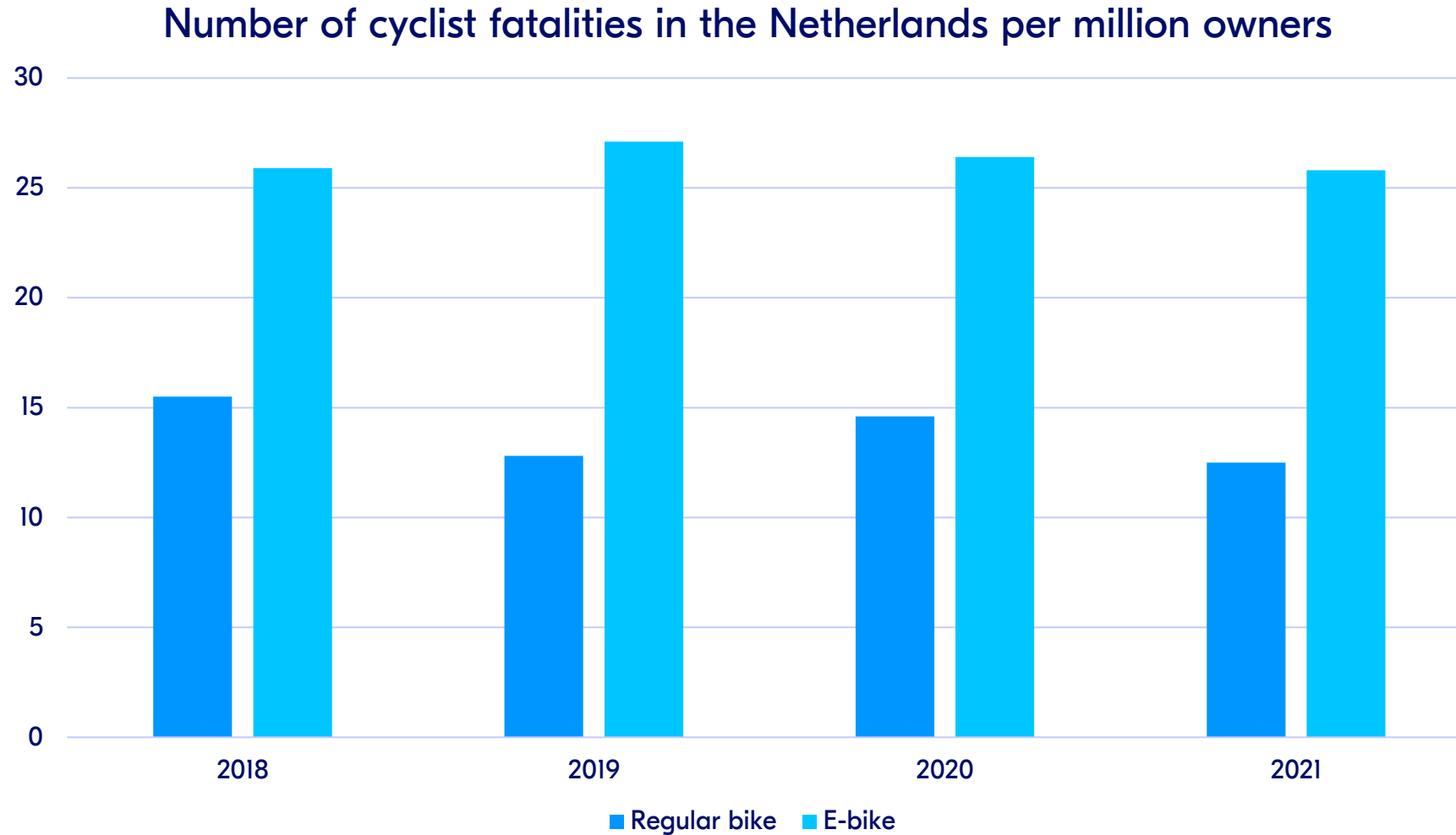
! Charge batteries on hard surfaces like concrete or tiles. Make sure that there's nothing around it that could catch on fire.

! Always use the charger that came with your device. Just because the plug fits, it doesn't mean it's compatible.

! Buy known brands with the Australian Regulatory Compliance Mark tick.

The infographic features a central illustration of a person wearing a yellow hard hat and a high-visibility vest, carrying a large green box on their back, standing next to a teal e-bike. The e-bike is connected to a charging station on the floor. A power outlet is visible on the wall to the left. A circular icon with a checkmark inside a triangle is shown below the charging station, representing the Australian Regulatory Compliance Mark.

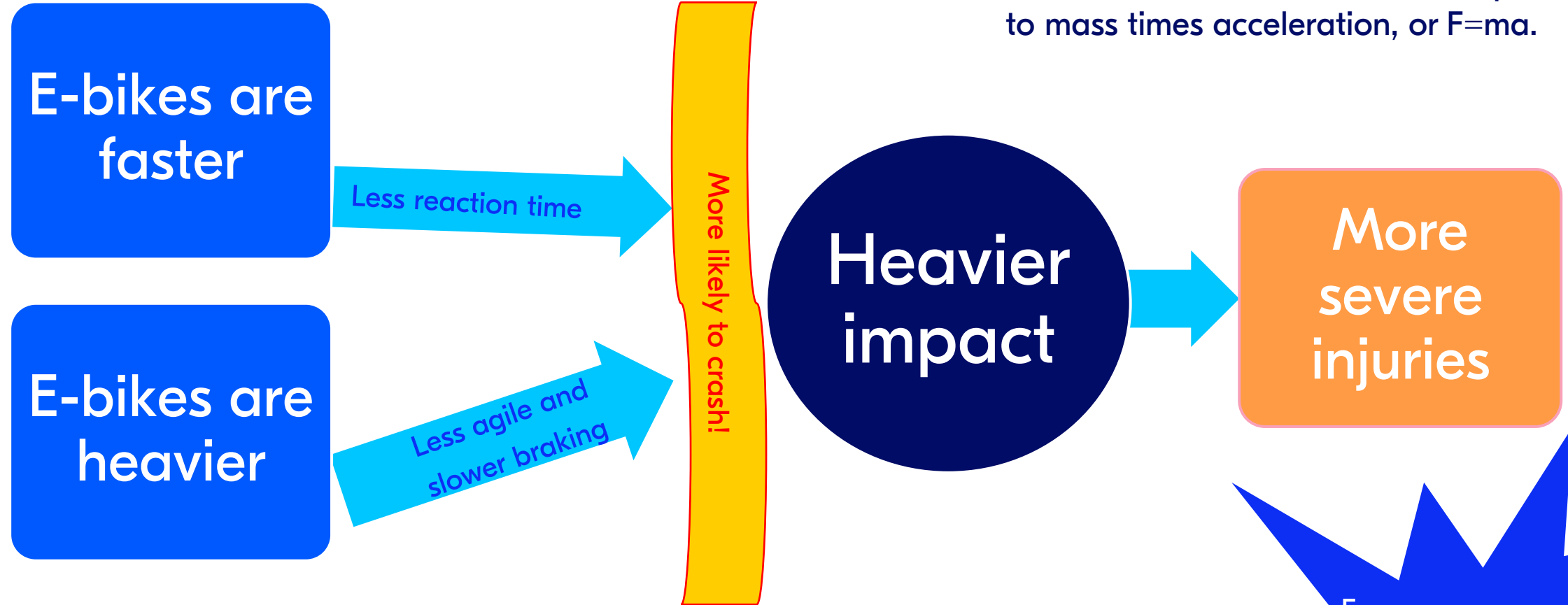
# Responsible riders



E-bike riders face a higher risk of dying.

Source: [Centraal Bureau voor de Statistiek \(CBS\)](#)

# Why?



Science: Newton's Second Law.  
This law states that the force is equal to mass times acceleration, or  $F=ma$ .

For you, your passenger/s, the people you hit, even damaging property.

# Risky to righteous

- x Not wearing helmets
- x Riding with multiple passengers
- x Riding on and off roads randomly
- x Riding too fast — especially near pedestrians
- x Not wearing shoes and other protective clothes



Picture credits:  
1. Richard Dobson  
2. Northern Beaches Council





# E- bike code

- Pedestrians have right of way always.
- Slow down to walking pace when others are on the path.
- Ring your bell and call 'on your right' to let others know you're approaching.
- Be ready for sudden changes — people, pets and prams can be unpredictable.

# On paper

## Discuss

- Why do you think modifying an e-bike to go faster is not just risky but also unfair to other road users?
- What steps would you take before riding an e-bike on your own for the first time?
- If you modify your e-bike what do you think the legal implications could be for you – what might happen if you were to then injure someone?

## Reflect

- Describe a situation where slowing down could prevent a serious injury while riding. What would you do differently?
- Imagine you're talking to a friend who never wears a helmet. What would you say to help change their mind?
- How would you feel if you were to injure someone, either your passenger or a pedestrian, whilst riding your e-bike?