









# **E-SCOOTER CRASHES IN SOUTH AUSTRALIA**

Researchers from SA Health and The University of Adelaide have been awarded grant funding from the Lifetime Support Authority to conduct research into e-scooter injury and crash mechanisms commencing in 2025.

#### Why study e-scooter crashes?

- The adoption of e-scooters has increased dramatically in cities globally providing convenient mobility options for people and alignment with sustainable transport objectives
- Where laws allow, e-Scooters can usually be used via a commercial hire scheme arrangement or as a privately owned device
- As with all transport modes, there are negative consequences relating to risk and injury that need to be monitored and understood
- There is a worldwide trend of increasing hospital presentations as a result of e-scooter use
- In Australia, hire scooters have usually been restricted to footpaths in specific geographic zones, are speed-limited and also require mandatory helmet-use by a single-rider with a BAC<0.05
- In the Adelaide CBD there were 808,000 hire trips recorded between December 2019 and October 2022
- Adelaide hospital emergency departments (CALHN) have observed increases in presentations of injured riders and other road users as a result of e-scooter collisions
- With increased exposure, injury numbers are expected to increase upon legalisation for the use of privately-owned devices in July 2025, see link below to Government of South Australia my licence website
- This study will provide a rare opportunity to monitor injury patterns as private use of e-scooters is legalised and increases over time



#### Data is needed for evidence-based interventions

- Other cities have found e-scooter related hospital admissions exhibit higher instances of traumatic brain injuries than those from bicycles and motorbikes
- Contributes substantial economic burden to hospital and local health systems
- Detailed crash investigation is required to understand injury factors, severity, role of infrastructure and scooter design to inform policy and harm prevention strategies.











## THE RESEARCH COLLABORATION

### Centre for Automotive Safety Research (CASR) at The University of Adelaide

Crash investigators and road safety researchers

## <u>Centre for Orthopaedic and Trauma Research (COTR) at the University of</u> Adelaide Medical School

Biomechanics Injury researchers

### Royal Adelaide Hospital (RAH), The Queen Elizabeth Hospital (TQEH), SA Health

• Emergency Department Clinicians











