

Charting a Path to Zero

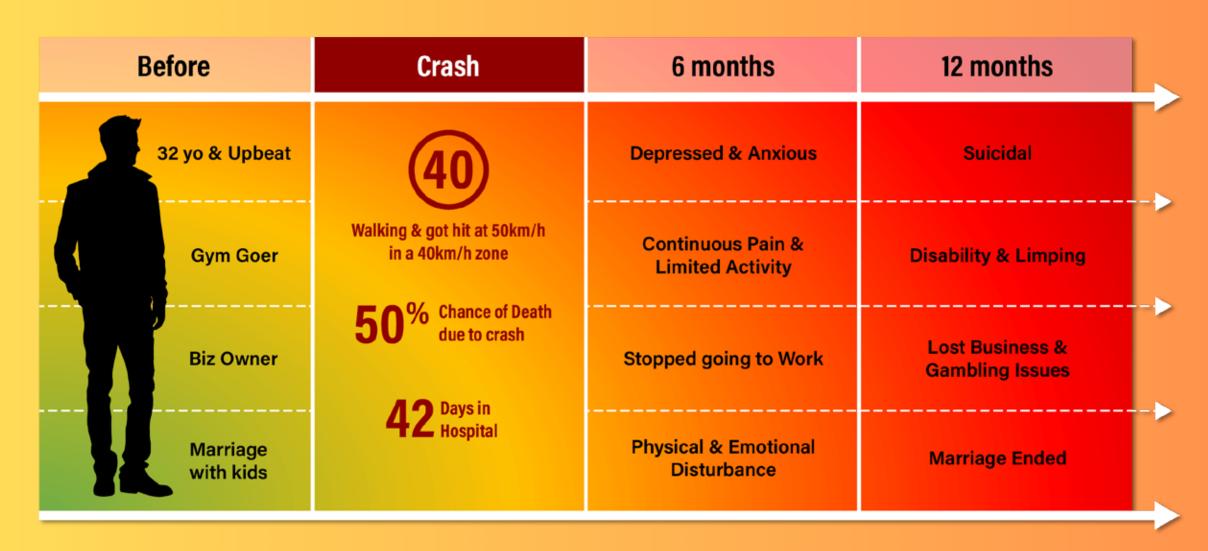
Michael Nieuwesteeg

Program Manager Road Safety & Design





Why we're doing what we're doing





 Austroads is owned by, and solves problems for, Australian and New Zealand transport agencies.

 We provide high-quality, practical and impartial advice, information, tools and services to help our members to deliver efficient, reliable and safe mobility to their customers

 We deliver national services to help transport agencies to operate seamlessly across state borders and bring national efficiencies to their operations.





What we do

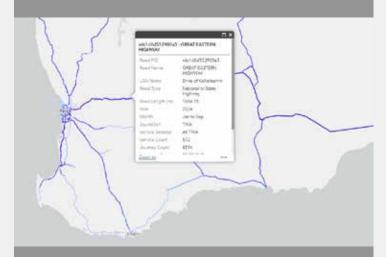


Research and guidance



Conduct pooled research on behalf of members to develop best-practice, evidence-based reports, guidance, and specifications.

National data services



Exchange, manage, analyse and report on vehicle registration, driver licence and road-related data.



Harmonisation of practice



At the request of members and Ministers, coordinate work to improve and harmonise practice across Australia and sometimes between Australia and New Zealand.

Problem definition



C D **Traditional** Growing Effective road +1,500 incremental complexity: safety planning: **Road Fatalities** Aging population Road Safety improvements New vehicle Strategies insufficient to technologies Action Plans reach Vision Zero Programs and Rising active travel ~42,000 Investments Micromobility (e-mobility) Ambitious Serious Injuries Other emerging targets. issues annually across Australia and New Zealand



Vision:

To provide practical guidance to help progress the all-government-levels leadership needed to fully implement the necessary actions to reduce fatalities and serious injuries to zero by 2050.





STREAM 1

Planning for Zero Framework

Key Definitions

Road Safety Assessments

Planning for Zero Framework (Blueprint)

STREAM 2

Zero Pathways

Turning the PfZF Blueprint into tailored Zero Pathways

Communication and Engagement Plans

Change Management Approach

Training Concepts to Guide Practitioners

STREAM 3

Further Research Gaps

Collate Research Gaps Identified in the Project and Similar Projects

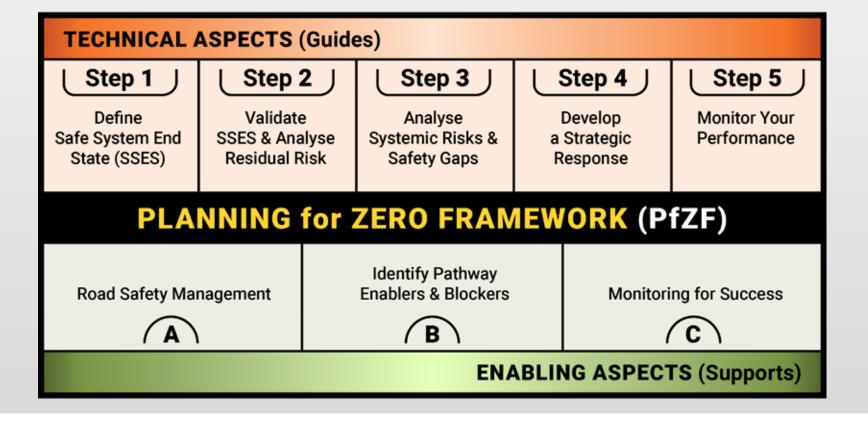
Develop a Pipeline of Research Projects for the Next 5-10 years

Planning for Zero Framework

A new way of developing road safety strategies







Our approach to road safety



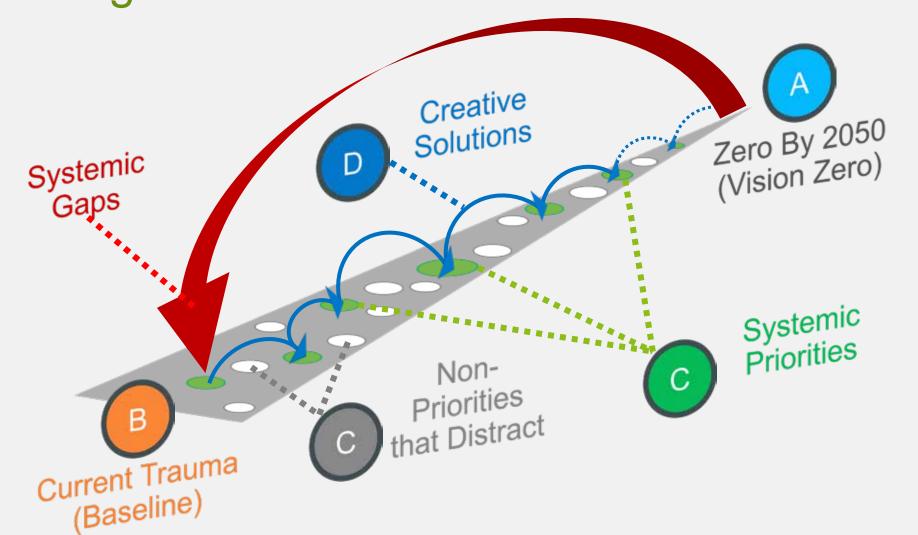
- Human Vulnerability: We can tolerate only so much force before breaking
- Human Fallibility: We all make mistakes
- Ethical Imperative: No one should be killed or seriously injured
- Accountability & Responsibility: Road authorities are accountable; users are responsible
- Redundancy: Multiple protective layers are required to stop harm.

Zero Harm:

Our ambition is for a land transport system where no one is killed or seriously injured (near Zero)!

Planning for Zero Backcasting & End States

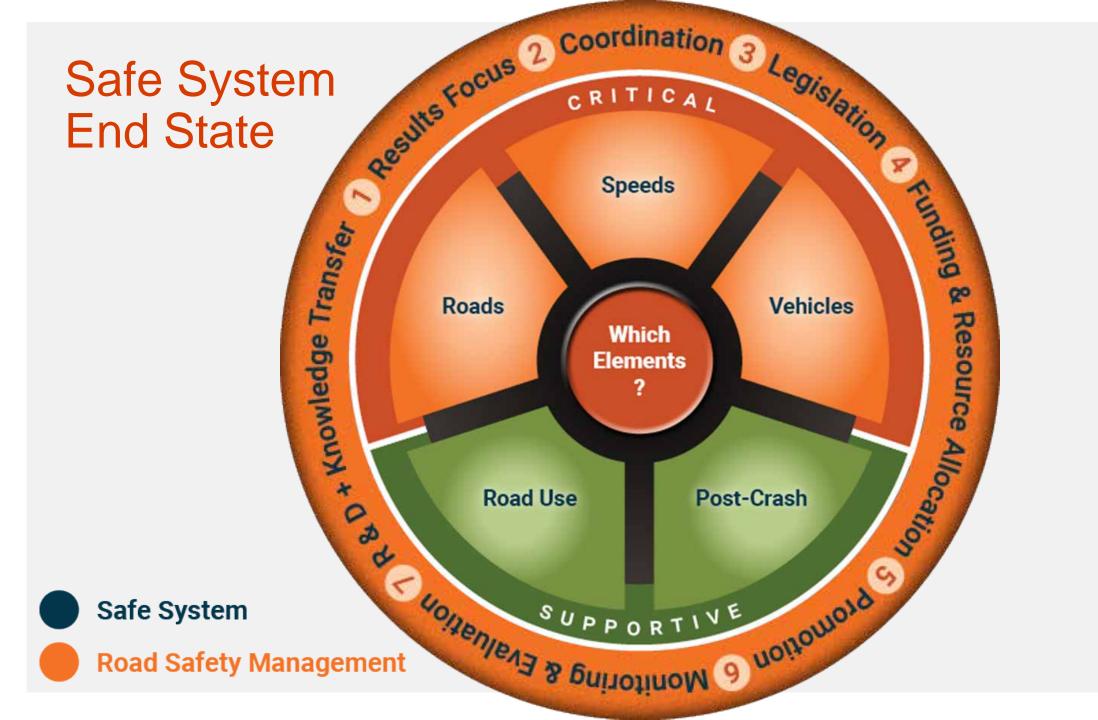




What is a Safe System End State?



A Safe System End State (SSES) is the desired future state (LOS) designed to achieve a zero or near-zero outcome for road fatalities and serious injuries. It includes the specification of a combination of vehicle and compatible road infrastructure features along with maximum allowable travel speeds to ensure any crash forces generated will not exceed human biomechanical tolerances for fatal and serious injuries, while supporting the desired movement function of the road network.





Safe System End State Through Movement & Place





SSES through Movement & Place Example: Activity Streets

Front, side and rear underrun protection

for heavy vehicles



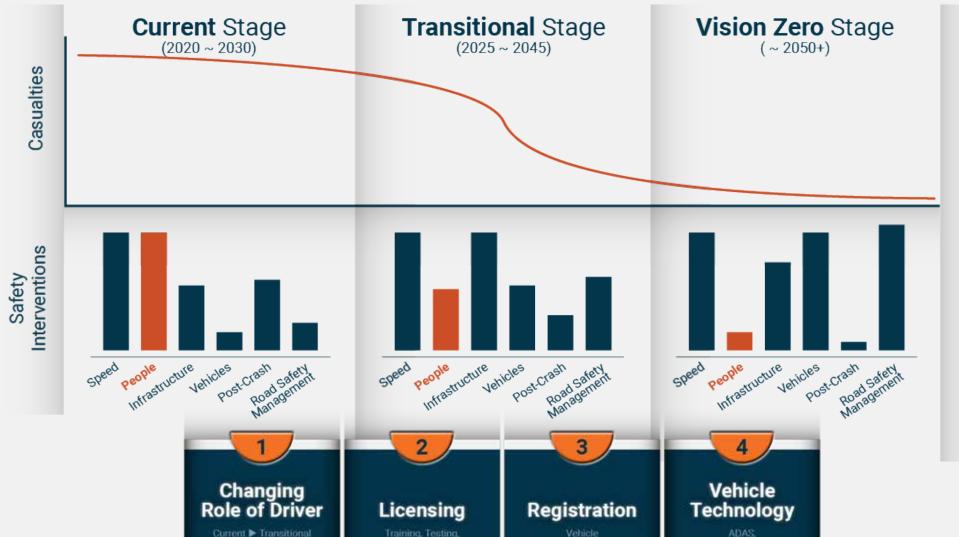


or pedestrian fencing

Role of 'People' in Vision Zero?

▶ Vision Zero Stage





Safety Compliance

Project report

Objective:

To equip practitioners, especially those within Austroads' member organisations and local governments, with best-practice knowledge, tools, and resources derived from the three streams of the Charting a Path to Zero project.

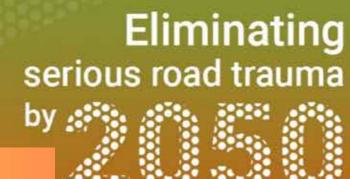
Eliminating serious road trauma



Charting a Path to Eliminating Road Death and Serious Injury

Stream 2: Developing Pathways to Zero and Comprehensive Support Materials







Objective:

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Project artefacts coming soon Knowledge Hub

Building

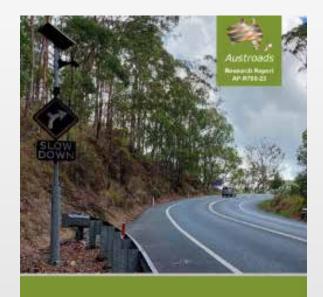


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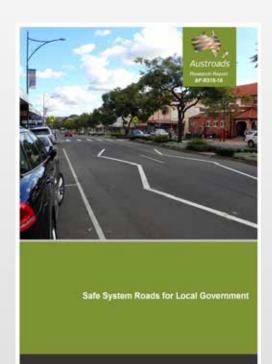


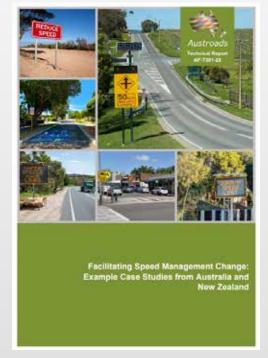
Other resources for local government

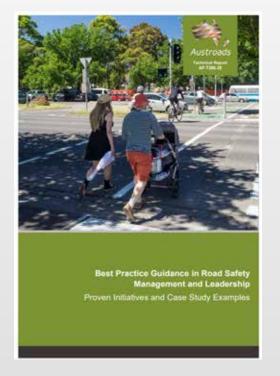




Practical Approaches for Managing Regional Road Safety Priorities: Practitioner Resources









Scan the QR code to access the full library of 21 factsheets.

Thank you!

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