



SMARTER PLANNING FOR PEDESTRIANS

Dr HAFEZ ALAVI

Director Transport Safety - Strategy and Infrastructure
Road Solutions Pty. Ltd.

ALEX'S STORY...

AFTER 6 MONTHS

Slow
Recovery

Permanent
Scars

Continuous
Pain

Limping

Anxiety

Stopped
Hobbies

AFTER 12 MONTHS

Marriage
Ended

Depression
& Anxiety

Suicidal
Thoughts

Social
Withdrawal

Lost
Business

Took Up
Gambling



PEDESTRIAN SAFETY
IS CRUCIAL



WALKING IS UBIQUITOUS



800K

Visitors/Day

66%

Pedestrians

MORE VULNERABLE PEDESTRIANS



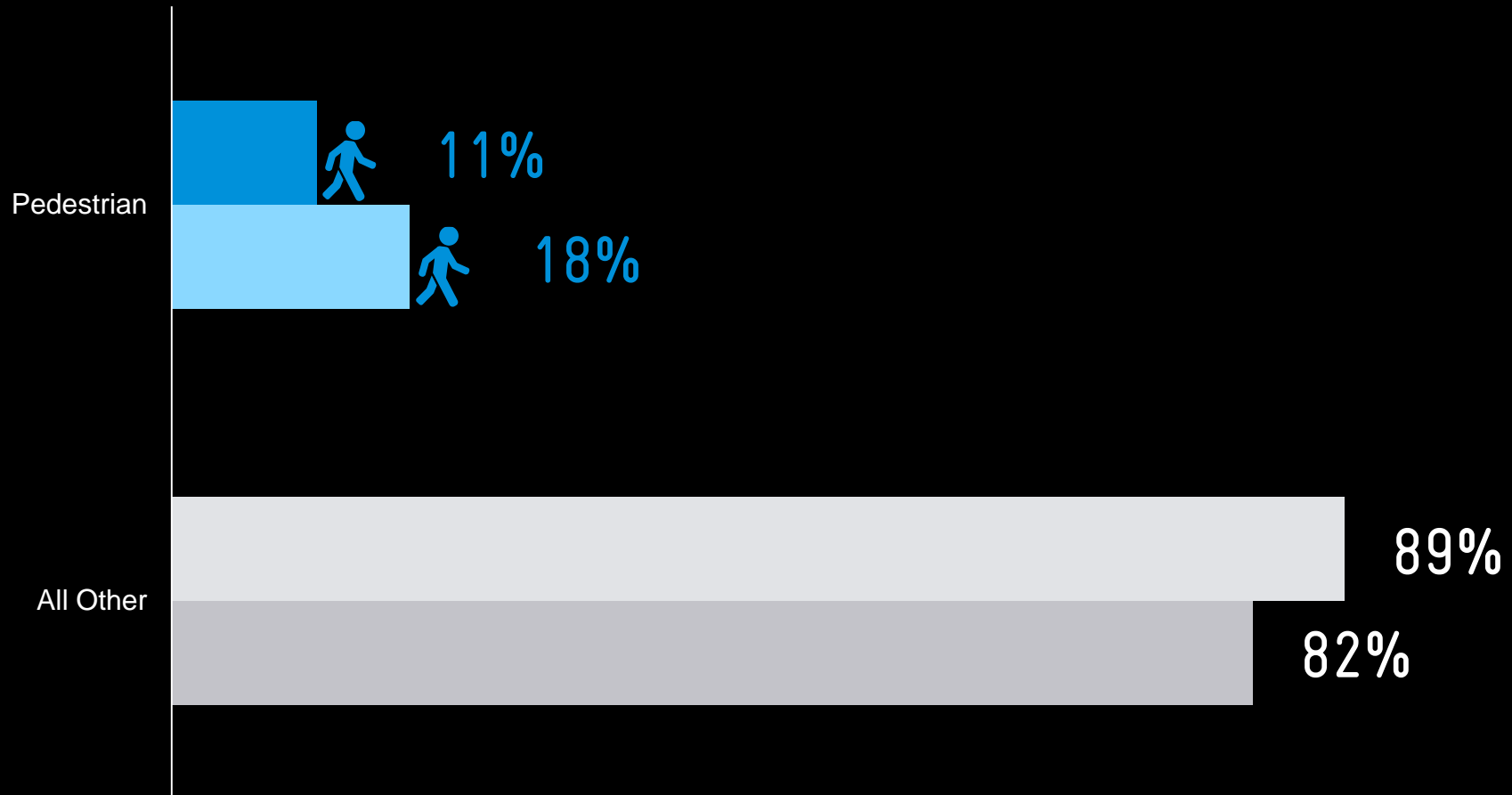
PEDESTRIAN RISK

Distance Travelled VS Deaths And Serious Hospitalisation

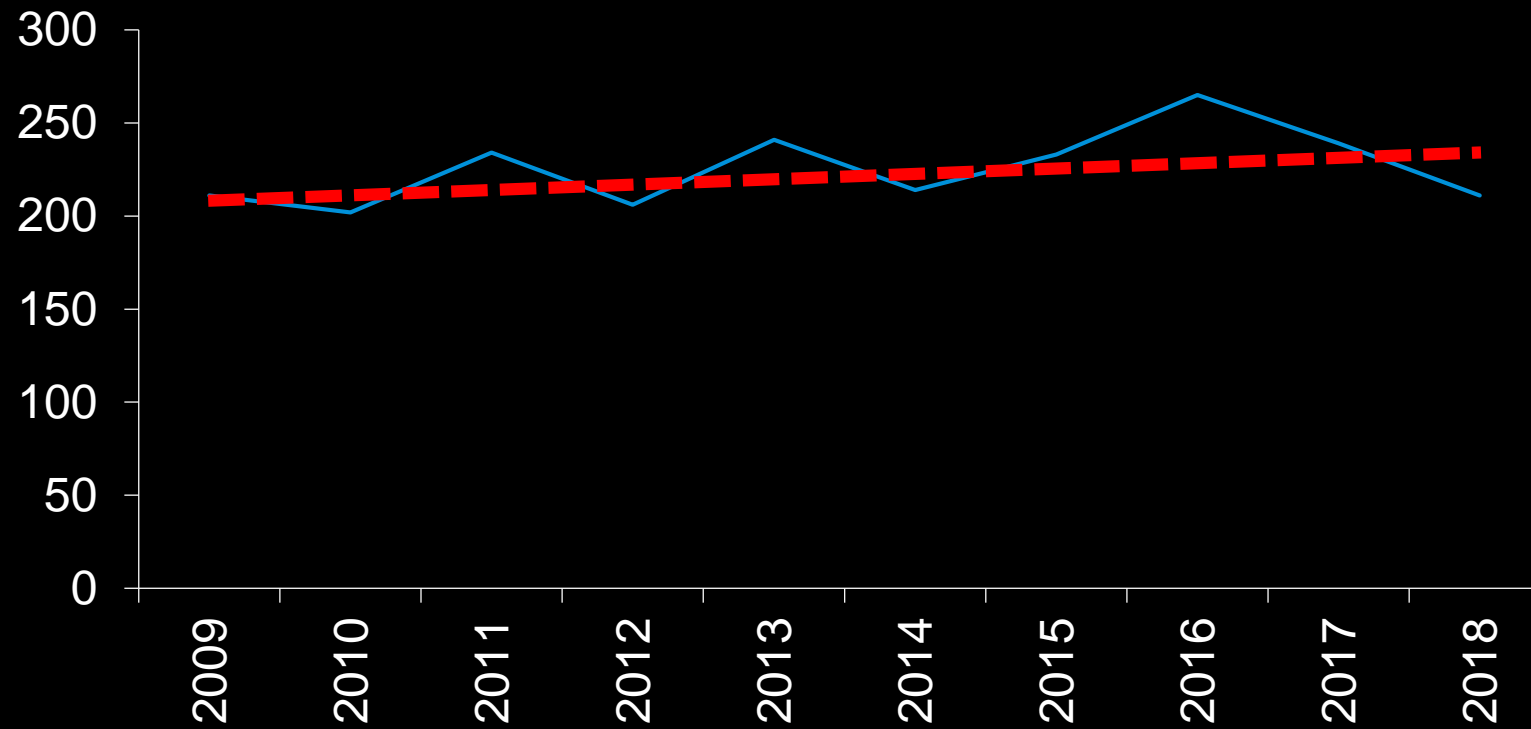


PEDESTRIAN TRAUMA COSTS

Deaths & Serious Hospitalisation



PEDESTRIAN SERIOUS TRAUMA





PLANNING FOR PEDESTRIANS

(TAC-DOT)

3 MAIN QUESTIONS

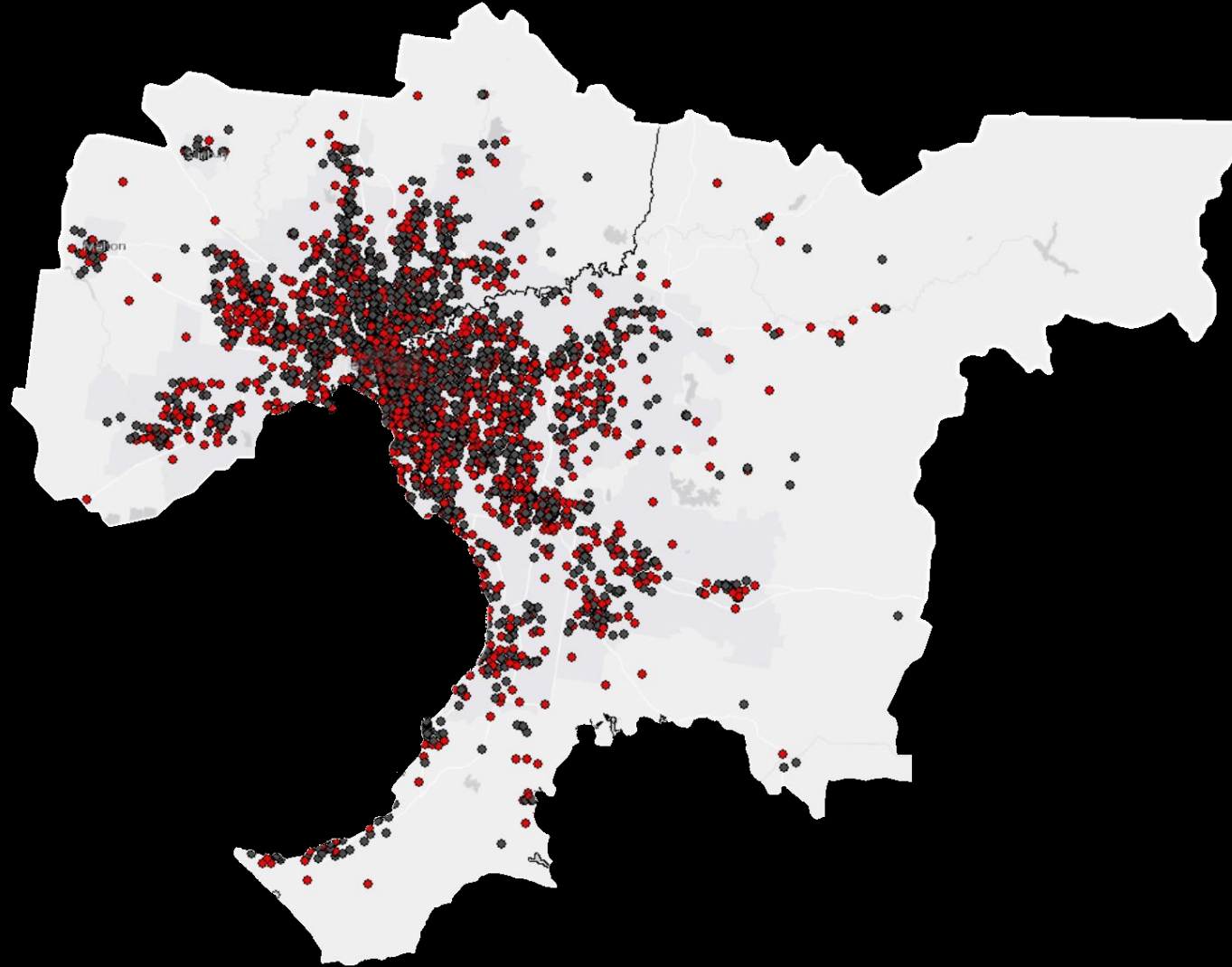


WHERE?

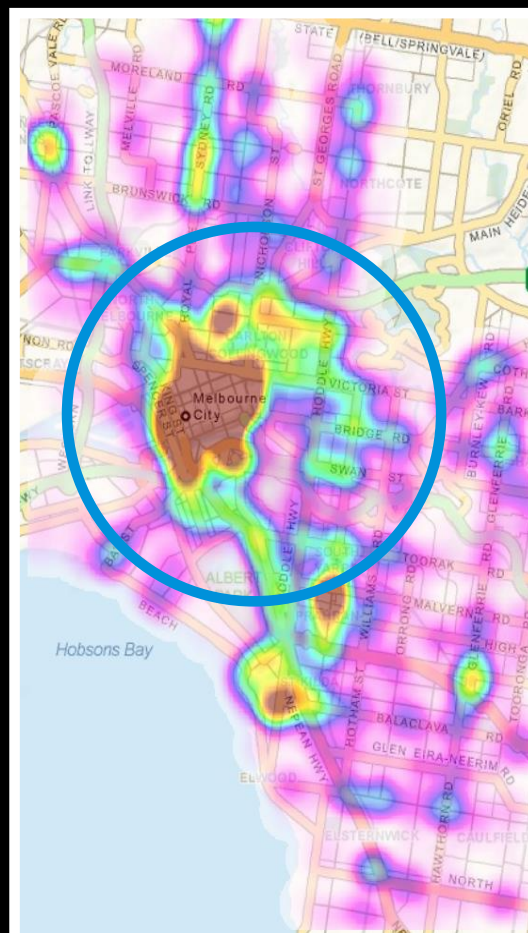
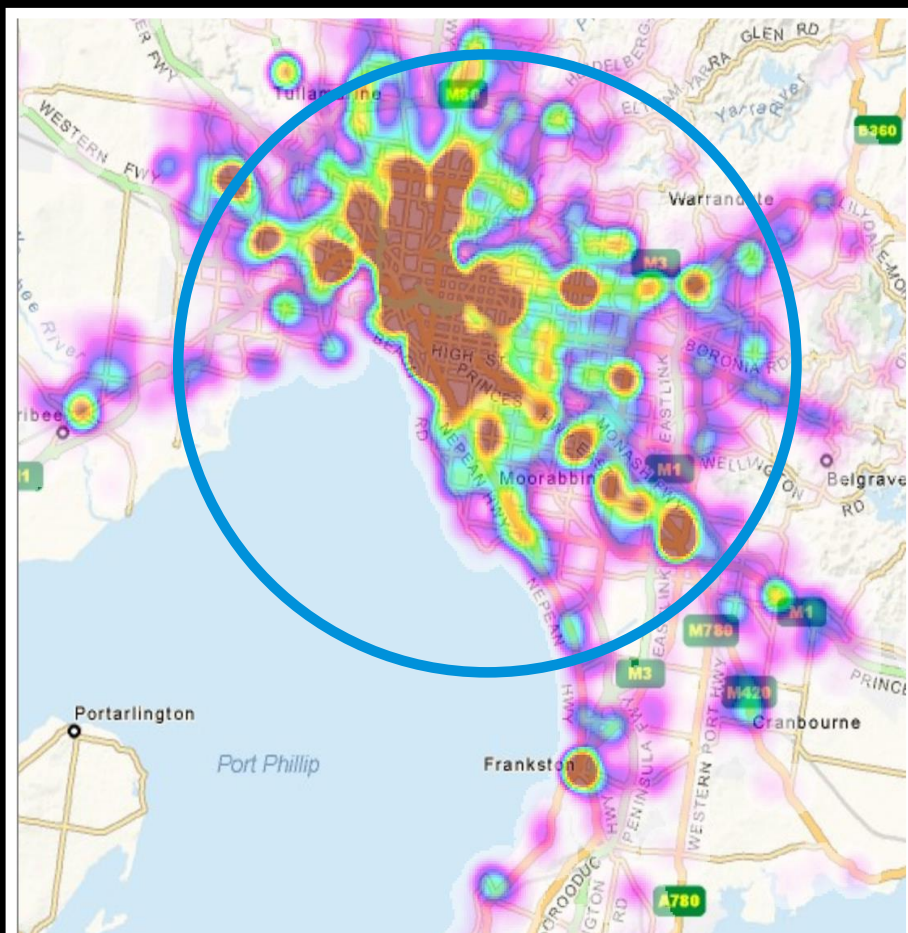
WHAT?

EFFECTIVE?

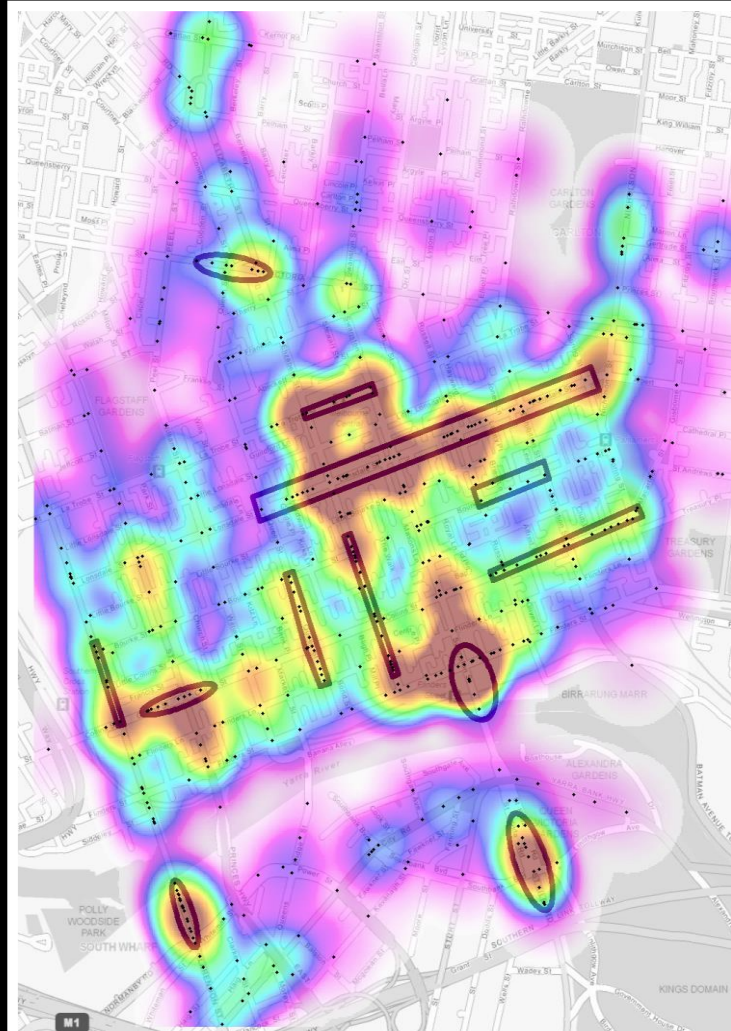
PEDESTRIAN TRAUMA – MELB METRO



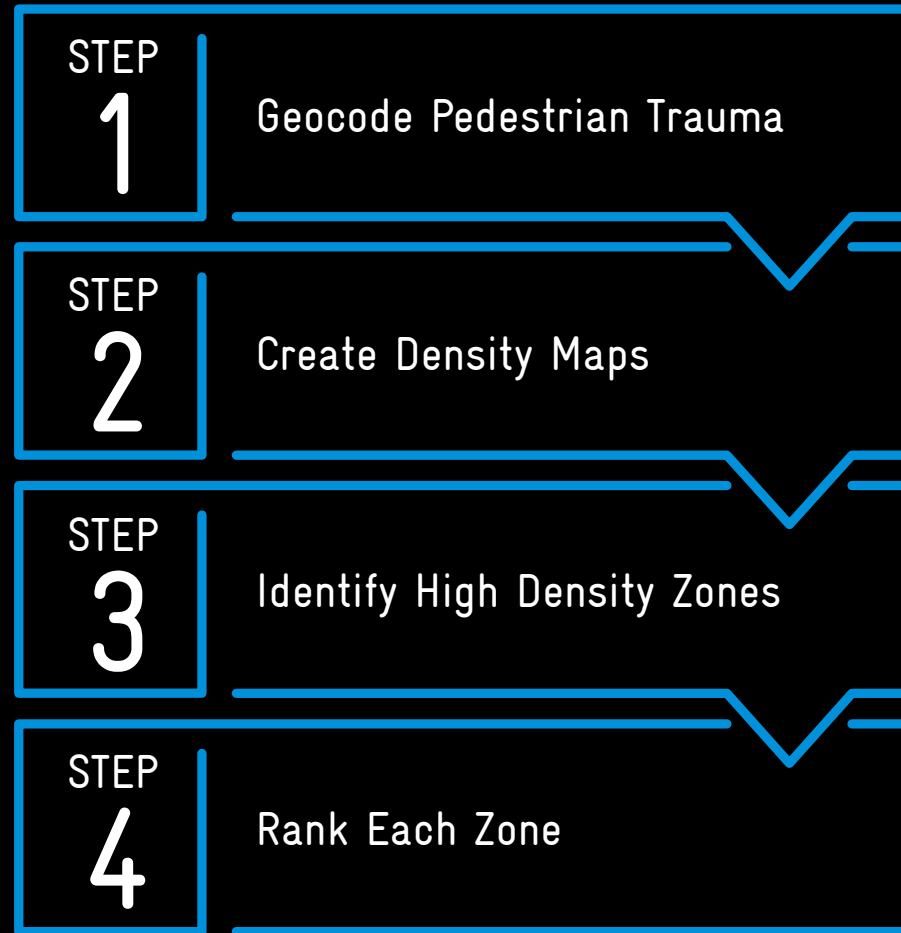
WHERE?



ROAD TRAUMA DENSITY



PEDESTRIAN SERIOUS TRAUMA ZONES



WHERE TO FOCUS

87

ZONES

High Serious Trauma Density

Additional Information

- Number of injuries
- Length and type of roads
- Length and type of public transport
- Traffic volume
- Land use

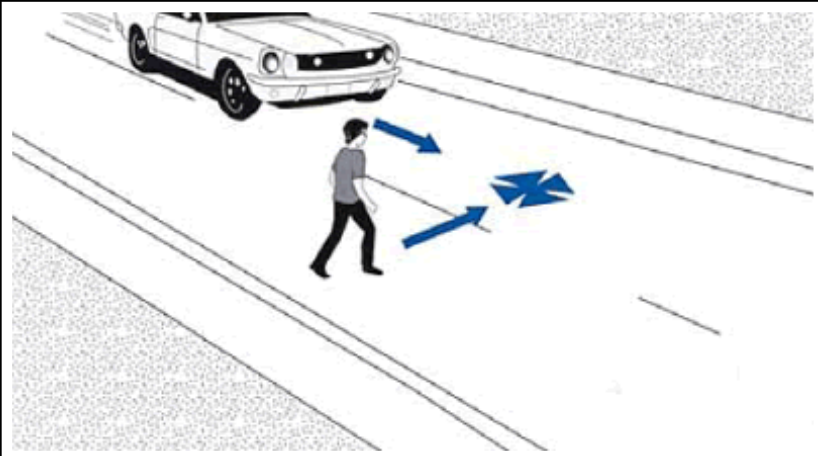
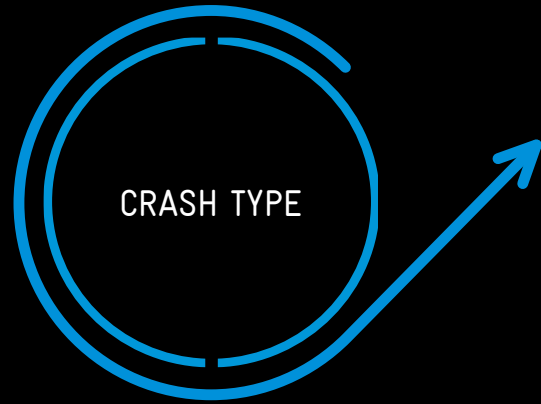
WHAT SOLUTIONS?



META-ANALYSIS



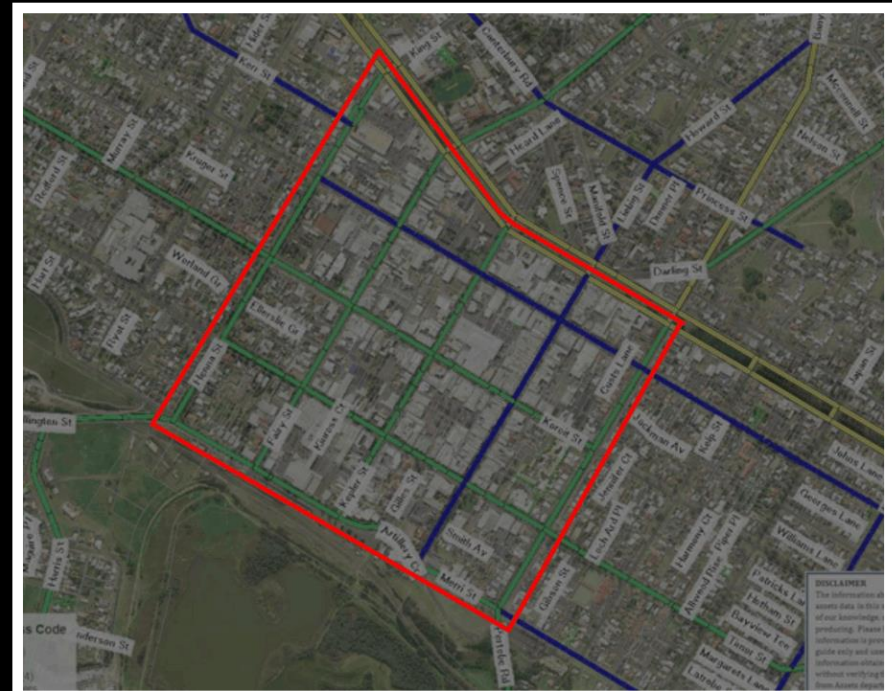
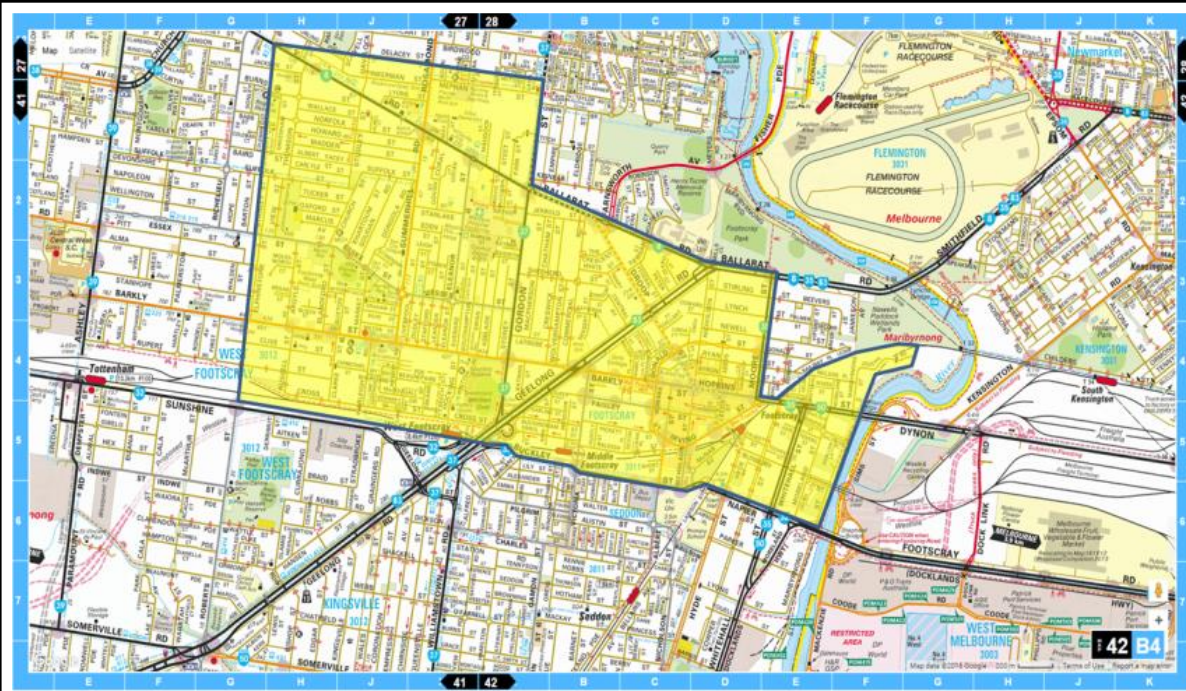
META-ANALYSIS RESULTS



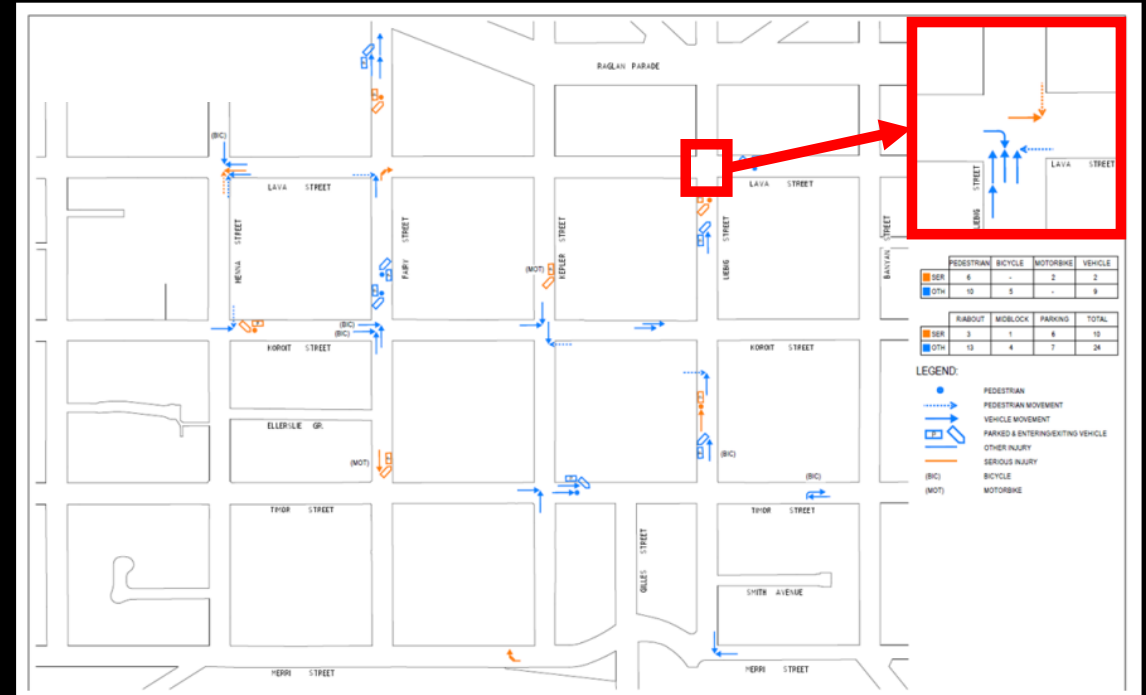
70%

Reduction In
Deaths And
Serious Injuries

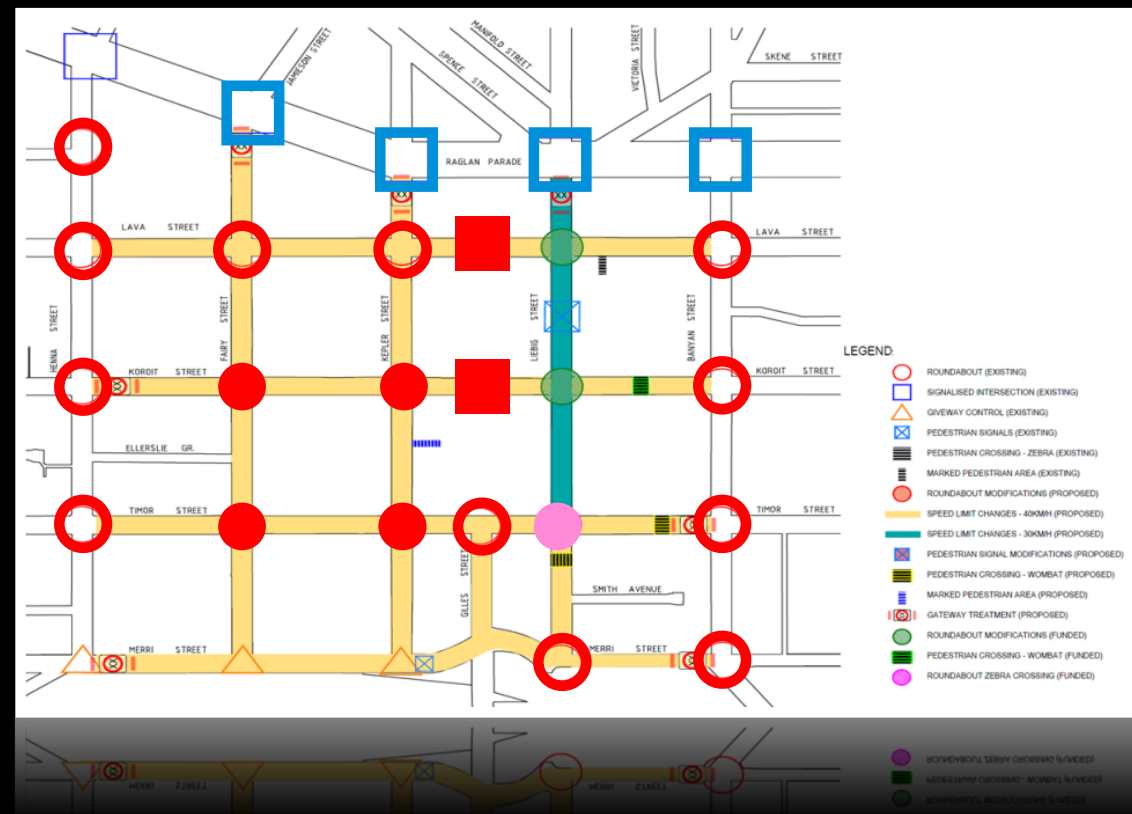
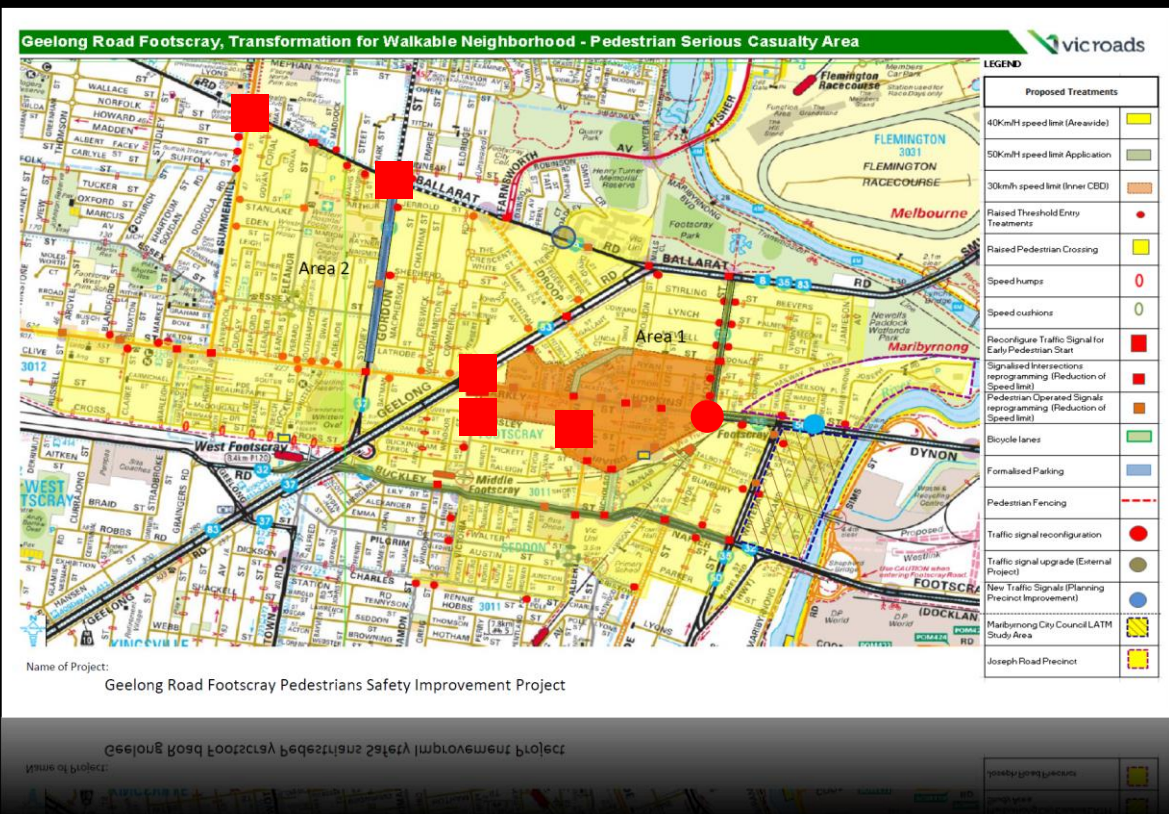
AREA-WIDE SOLUTION DEVELOPMENT



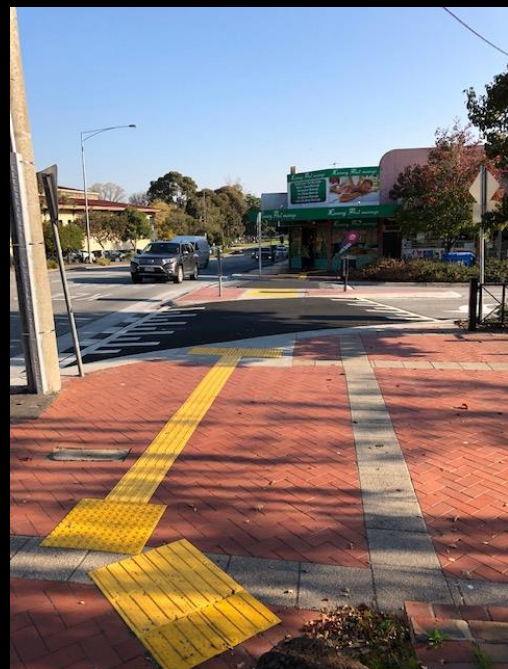
PEDESTRIAN TRAUMA ANALYSIS



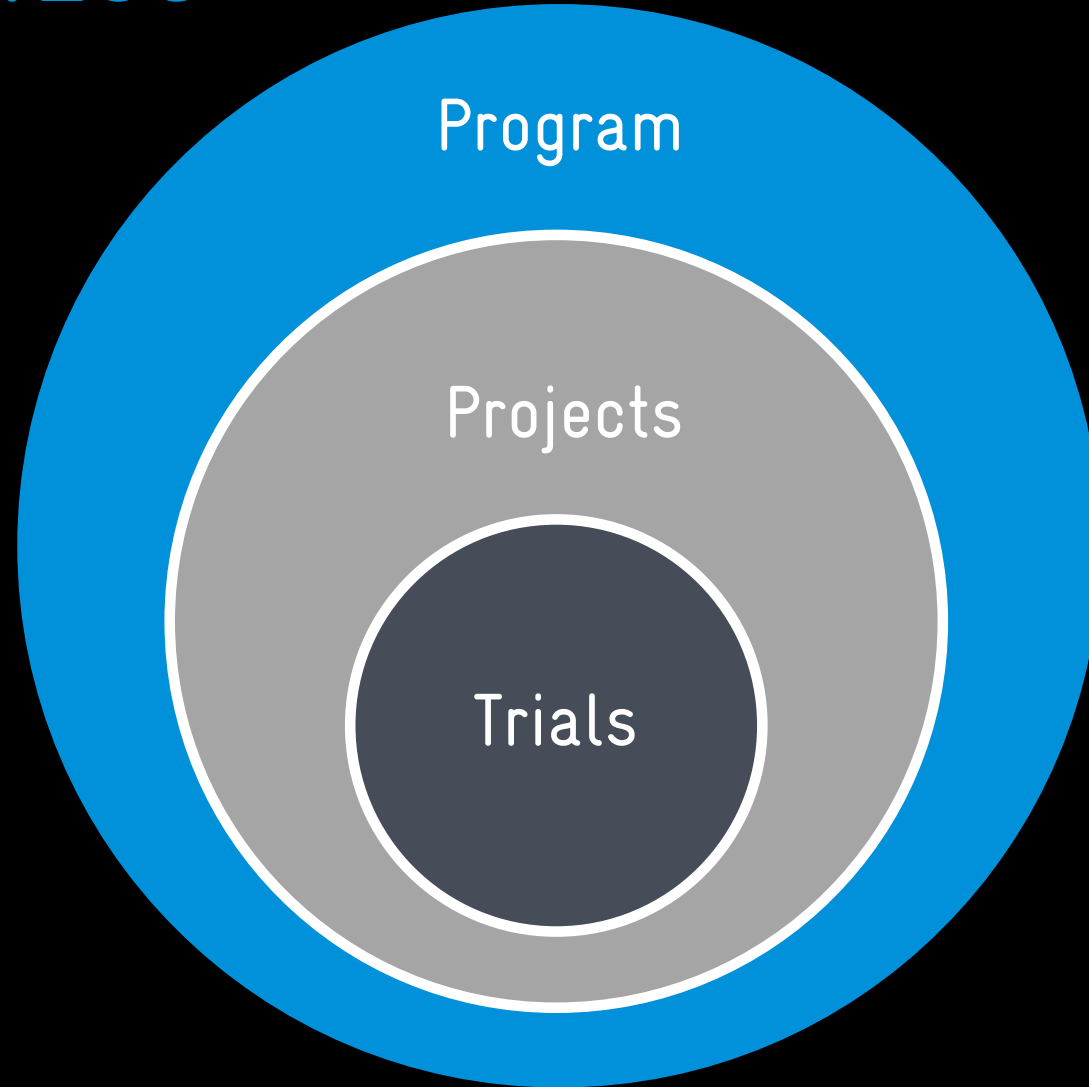
PEDESTRIAN SOLUTIONS



FINAL OUTCOME



EFFECTIVENESS



EVALUATION

RISK-BASED

Conflicts
Reduction

Speed
Reduction

Road User
Compliance

OUTCOME-BASED

Crashes

Casualties

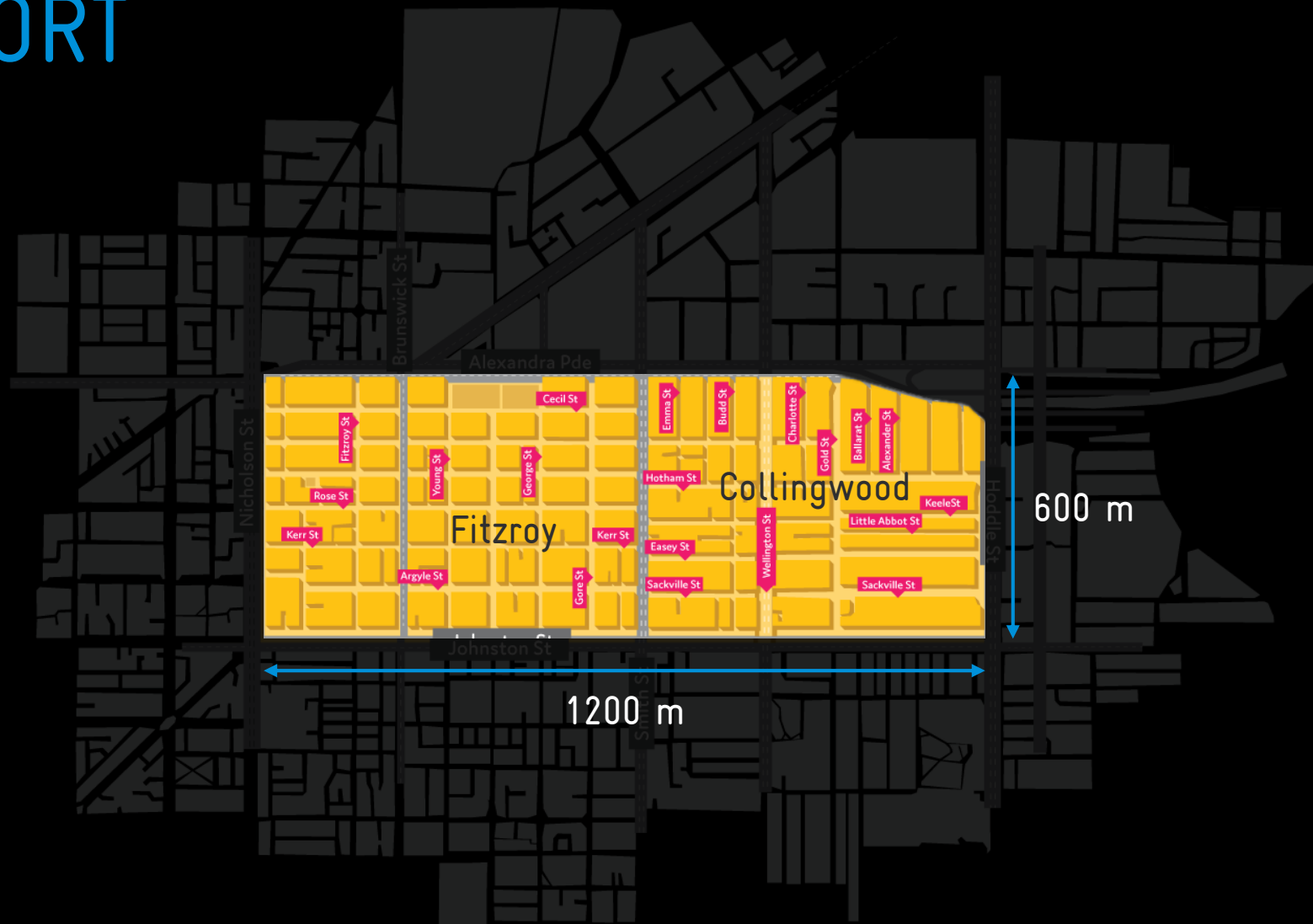
Deaths &
Serious
Injuries



POLITICAL SUPPORT

30

Australia's First Trial of
30km/h Zones

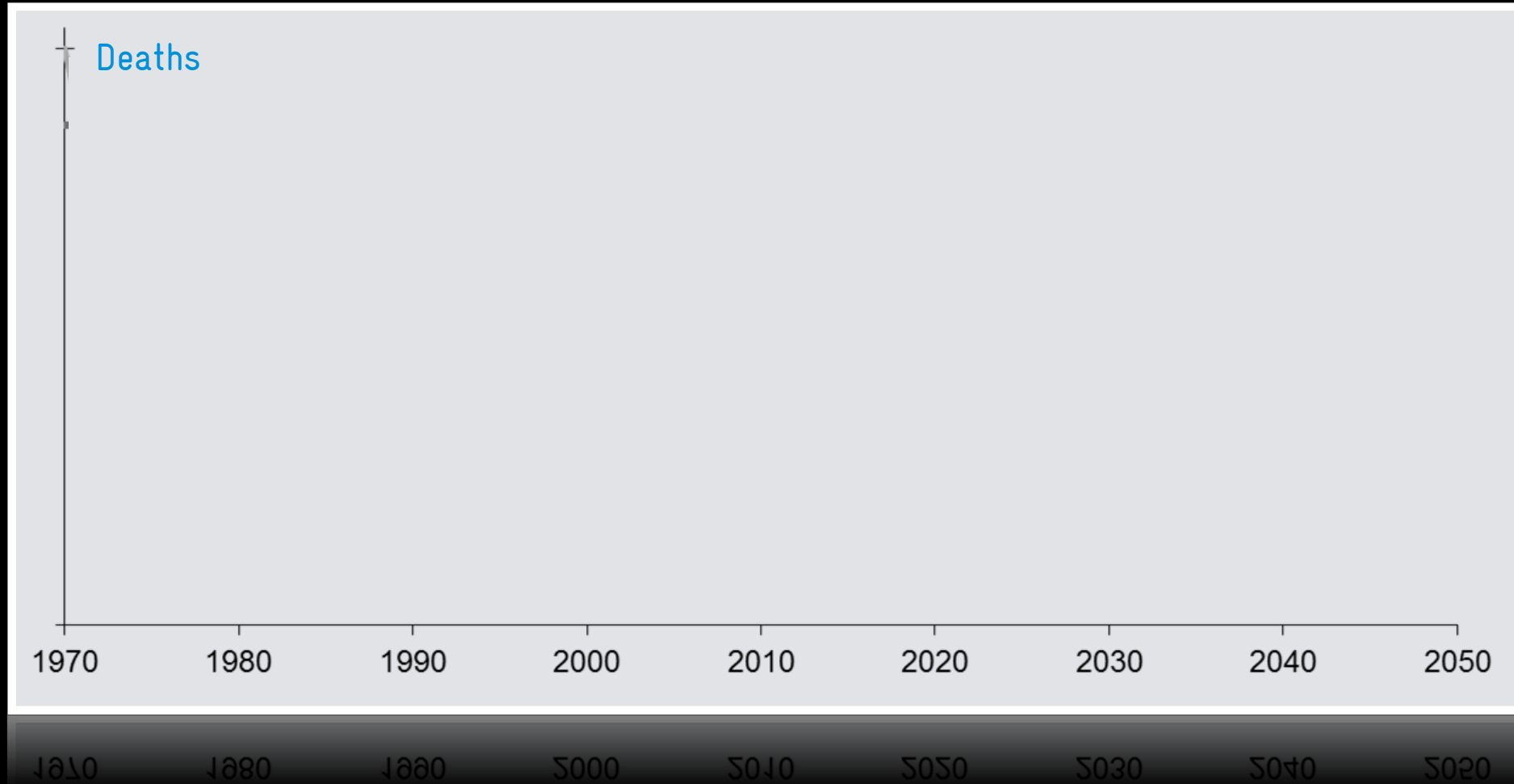


PROPER FUNDING

Serious Trauma



PROPER CONSIDERATION IN STRATEGIES



VEHICLE TECHNOLOGY







PEDESTRIAN

UBIQUITOUS
HIGHER RISK
UPWARD TREND



PLANNING

WHERE
WHAT
HOW EFFECTIVE



OPPORTUNITIES

POLITICAL
INVESTMENT
TECHNOLOGY

THANK YOU

HAFEZ ALAVI

Director Transport Safety – Strategy and Infrastructure

Road Solutions Pty. Ltd.

M 0417 542 728

E hafezalavi@roadsolutions.com.au