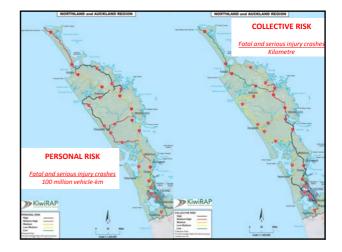
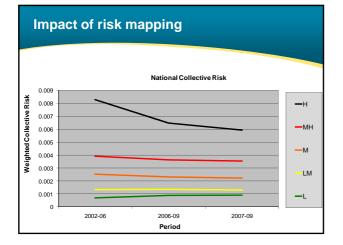




## **KiwiRAP Overview**

- Project began in earnest 2006
- Three protocols
  - Risk Maps
  - Star Ratings
  - Monitoring and Evaluation
- Aimed at rural roads (speed limits >70km/h)
- Developed and proven on State Highways (2010)

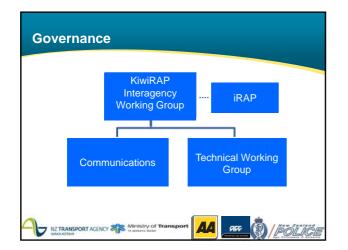




#### Innovation

#### • Governance

- Star Ratings
  - NZ specific relationships (where possible)
  - Automated data routines
  - New relationships
- KiwiRAP analysis tool (KAT)

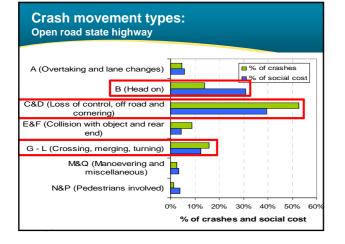


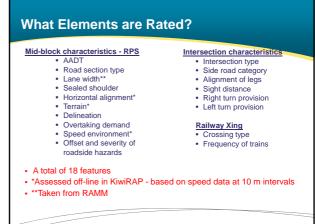
# Star Ratings

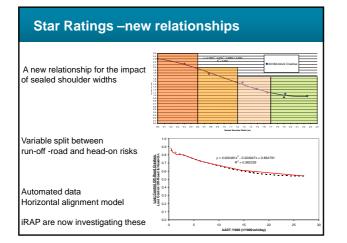
- Measures safety of road infrastructure
- A proactive measure of safety
- Based on a road protection score (RPS) every 100m

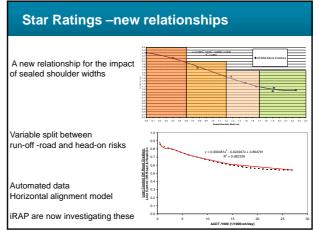
Length of segment \* (A \* Run-off road RPS + B \* Head-on RPS) + Σ(0.2) \* Int RPS) Length of segment Note: Intersection is abbreviated as Int

 RPS is averaged over 5km sections to give the Star Rating

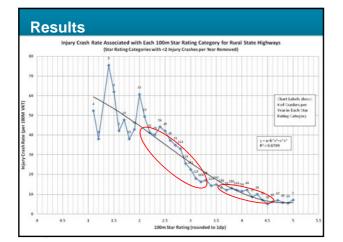








# 3



## KAT

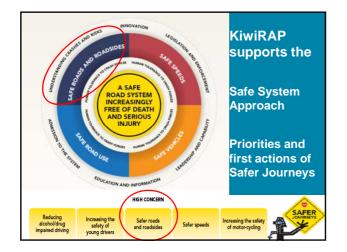
Bespoke software tool

#### · Allows the user to

- Search and identify road sections of interest
- Identify what attributes are contributing to the safety score
- Undertake what if analysis

#### • Provides a means of

- Maintaining up to date data
- Monitoring improvements and performance

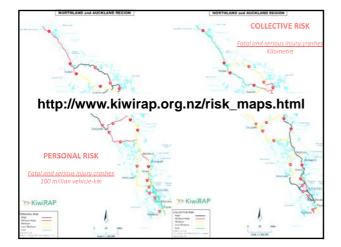


## Thanks To

The wider KiwiRAP Team for their hard work and for allowing me to present this neat project

And

3M for continuing to support this award

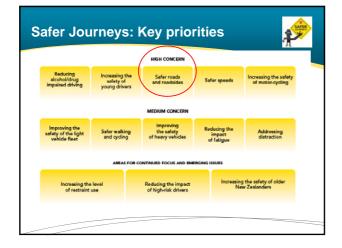






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A Contraction



## Road and Roadsides : First Actions

#### Roads and Roadsides

Develop a classification system

• Focus safety improvements on high risk rural roads

- Focus safety improvements on high risk urban intersections
- Change Give Way rules for turning traffic
- Implement targeted treatments on popular motorcycle routes
- Strengthen techniques to integrate safety into land use planning