



NZ TRANSPORT AGENCY
WAKA KOTAHI

Common Findings of Road Infrastructure Safety Assessments

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“The best audience is intelligent, well-educated, and a little drunk.”

Alben W. Barkley (1877–1956)

Purpose and Outline

Purpose

To provide the common themes emerging from 12 RISAs conducted in 08/09

Outline

- What is RISA?
- Outputs
- Themes
- Most effective recommendations

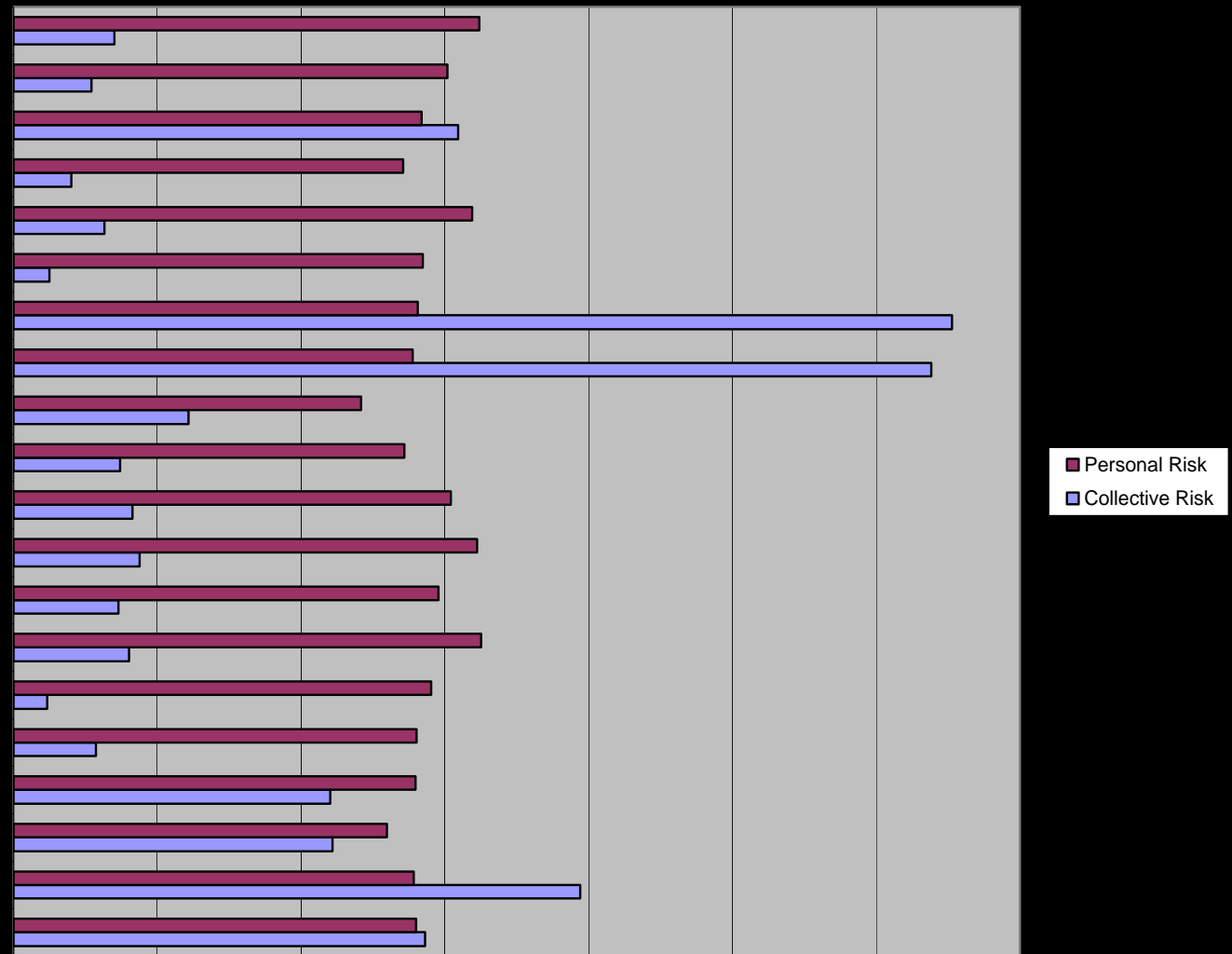
What is RISA?

- Tool to help me to do my job
- Evidence Based
- Contribution of road infrastructure
- Network Risk Assessment Tool

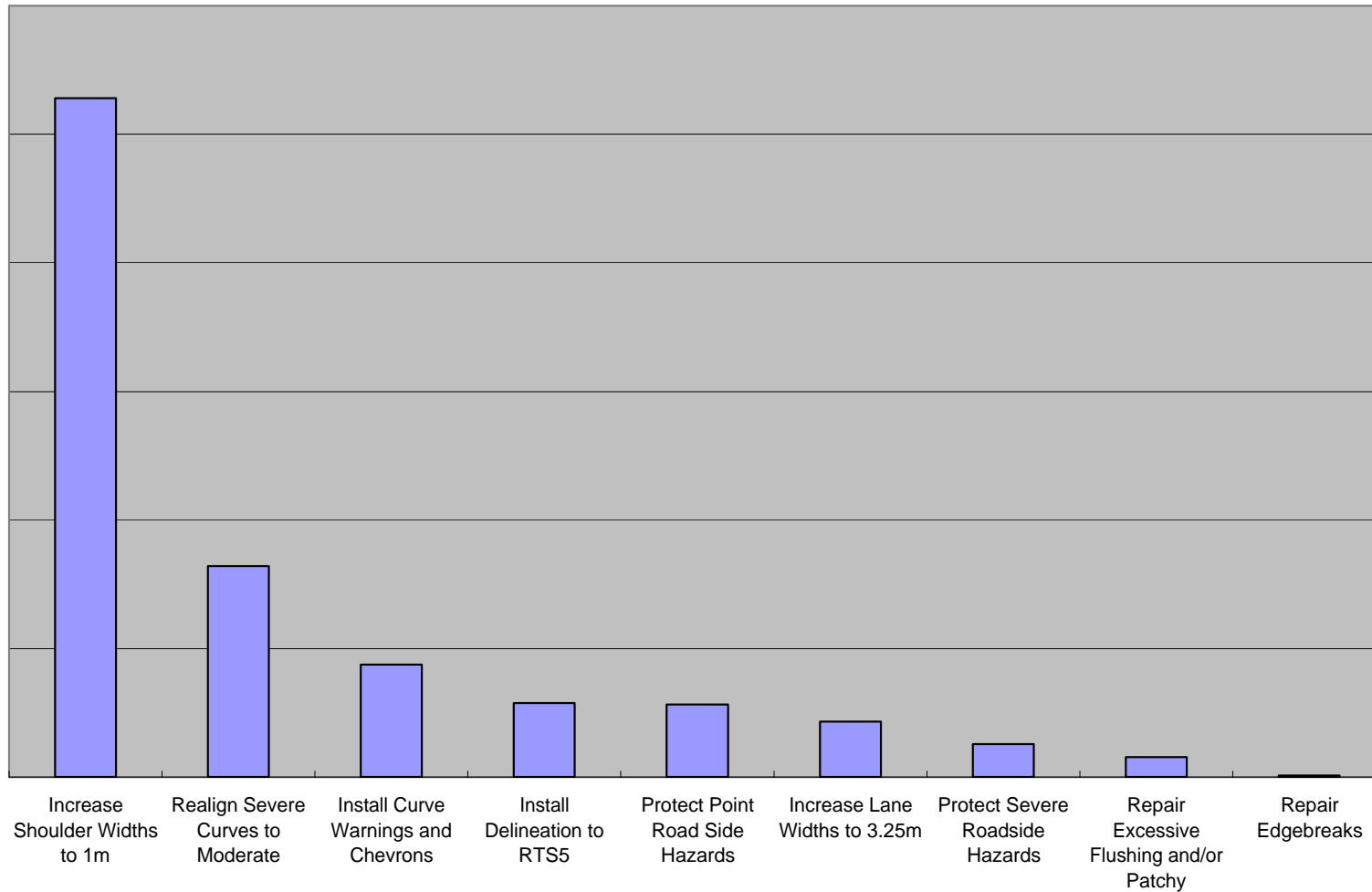
Process

- Stratified random sample
- Assess extent of infrastructure features
- Calculate relative risks
- Scale up to Network
- “What if” scenario testing
- Intersections – compliance with good practice
- Recommendations

Outputs – Personal and Collective Risk

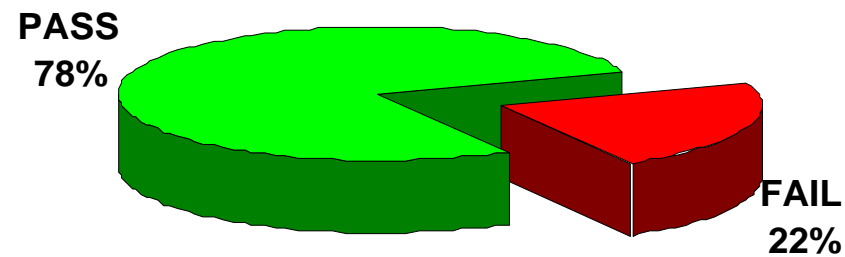


Outputs – “What if” scenario testing



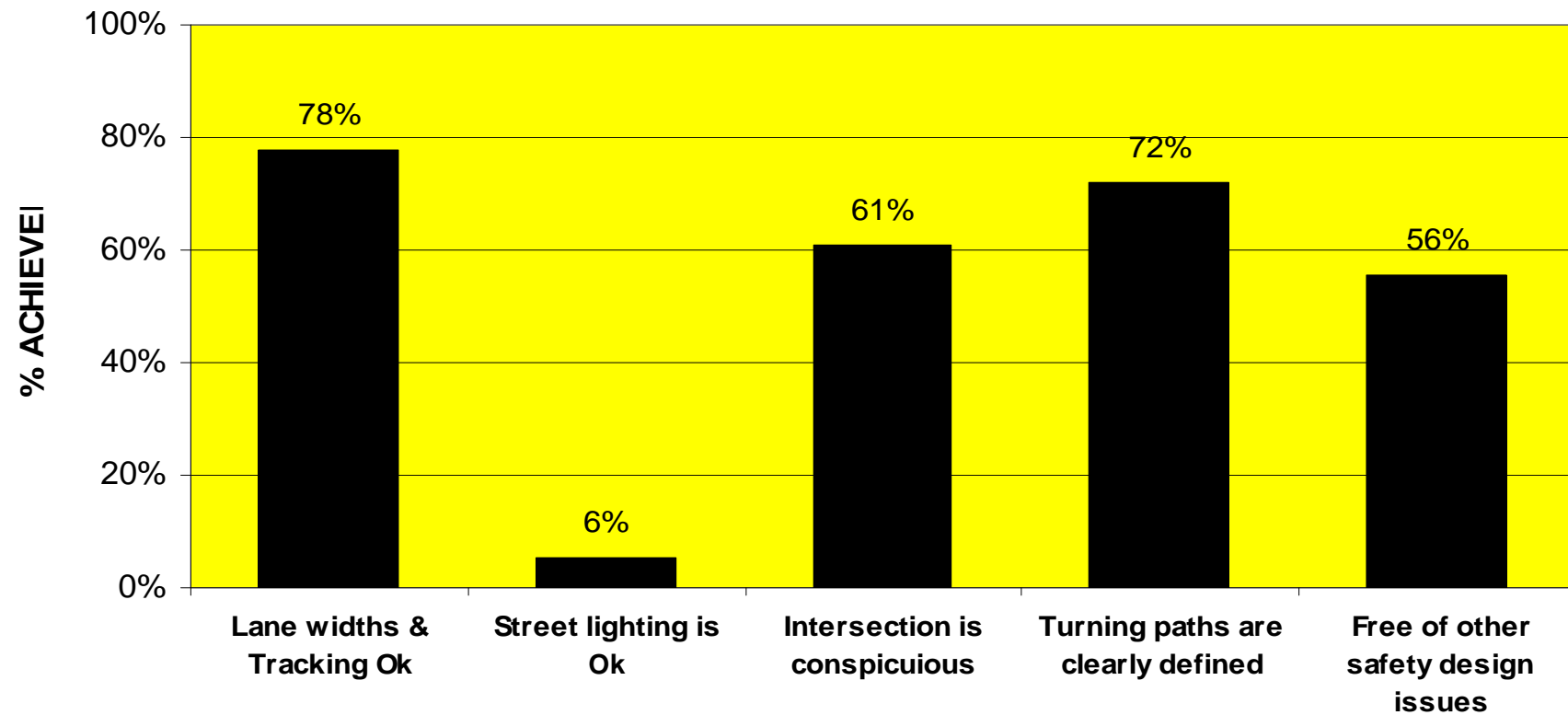
Outputs – “What if” scenario testing

Intersection Sight Distance Assessment



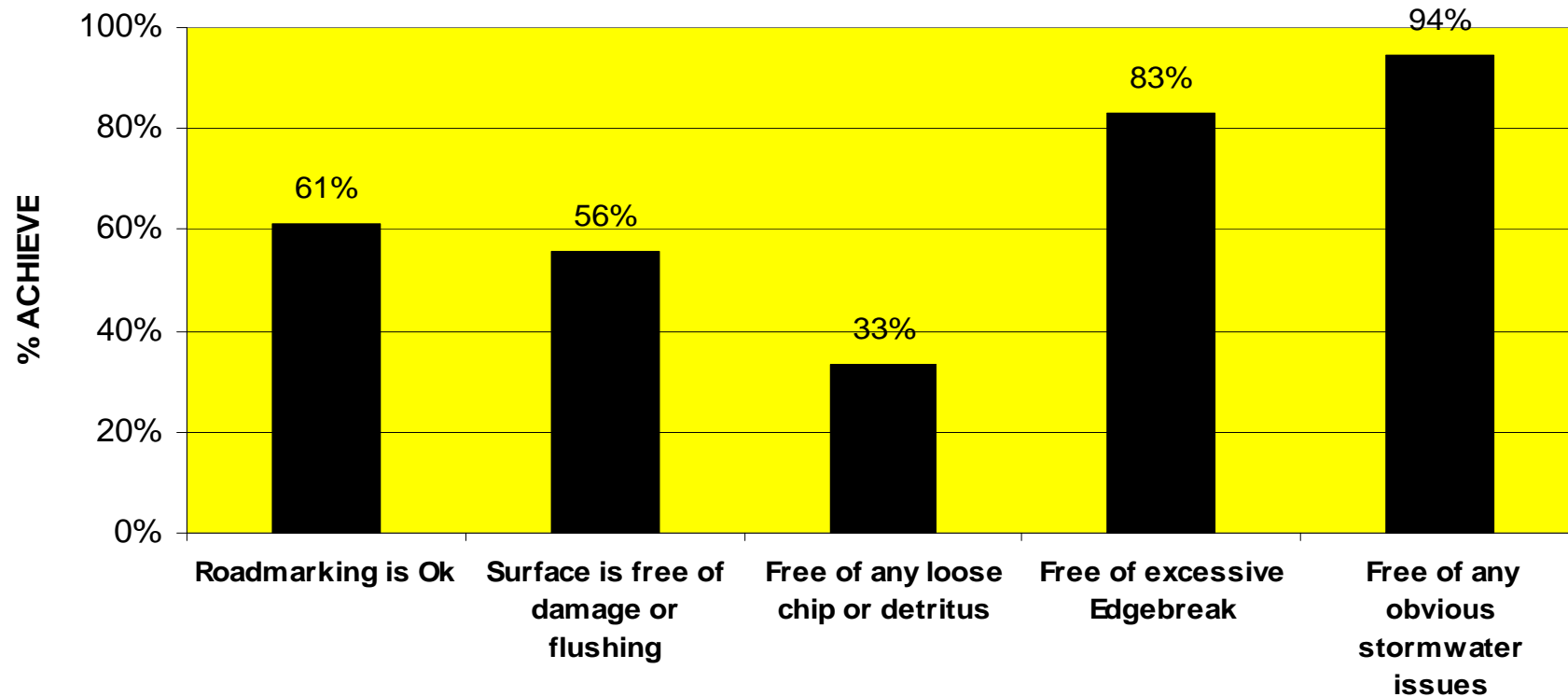
Outputs – “What if” scenario testing

Safety Related Design Assessment



Outputs – “What if” scenario testing

Safety Related Maintenance Assessment



Themes - Good Points

- Pavements
- Delineation
- Intersections
- Signs & Markings

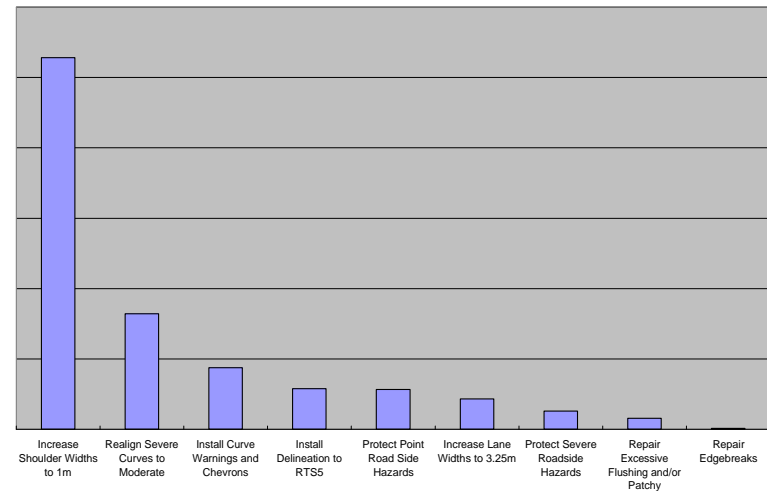
Themes - Recommendations

- Policies & Hierarchy
- Lane & Shoulder widths
- Hazards
- Horizontal Alignment

Most Effective Recommendations (1)

Method

- Based “what if” scenario testing
- Caution - coarse
- Range in % reductions
- Rank order



Most Effective Recommendations (2)

- Shoulders
- Lanes
- Hazards
- Realign curves
- But = \$\$\$\$
- Less effective -> more cost-effective

Intersections (based on %pass rate)

- Sight Distance
- Flag Lighting
- Maintenance
 - Loose Chips
 - Roadmarkings
 - Surface

Conclusions

- Many good points
- Policies and hierarchy
- Shoulders
- Hazards
- Curve warning
- Delineation
- Intersection maintenance

Goodbye from me



Fatty Appleton
Cascade Brewery c.1900