

3M Road Safety Award

ITE Technical Conference, Phoenix
3M Technical Development Centre



Outline



- ➡ ITE Technical Conference and Exhibit
22nd – 25th March 2009



- ➡ Phoenix, Arizona;
 - Observations

3M

- ➡ 3M Technical Development Centre Visit.



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General Findings



Participants incl. Federal Highways / US DOT

- NZ leads process of Safety Audits
 - Frequent examples of severe issues with constructed projects – lack of Safety input during design
- “Odd” drivers for projects
 - Recovery and Reinvestment Act
- Maintenance of existing Asset high importance
 - Money already spent
 - First line of defence – low cost option for safety

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General Findings



- Major Development / Projects and traffic flow
 - Highlight of issues from experience
 - Impact on Local Road Network that are not up to task
 - Exit strategy – planned and unplanned
- Corridor Management
 - Poor use of tools – GIS etc
 - Lack of integrated systems for effective management
 - NZ example seen as 5 – 7 years advanced from US
- High Risk Rural Roads Program (HRRRP)
 - \$360 million with the goal to cut traffic deaths and injuries on public roads by 20 percent by 2008

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Technical Displays



Highlights

• Miovision

- Video capture of intersection turning movements incl. vehicle classification;
- Online *software as a service* analysis
- www.miovision.com



• “i-Cone”

- Side cast radar – traffic density and flow, vehicle occupancy
- NOT linked to traffic management, but able to be

• Intelligent Road Studs

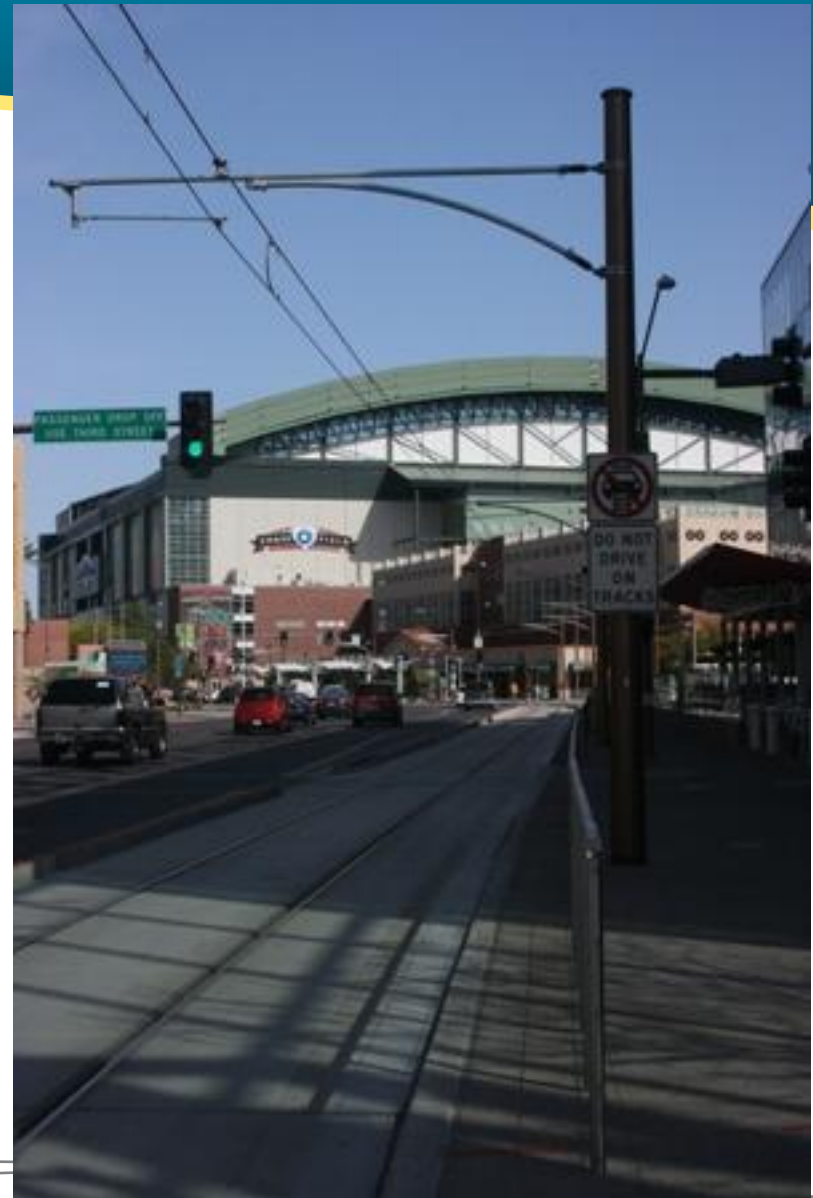
- Multiple illumination sequences; programmable

Phoenix City Light Rail System



Phoenix City Light Rail System

- Infrastructure Problems



3M Technical Development Centre Highlights

- Signs / Retroreflectivity
 - Sign Performance / Deterioration rate research
 - DG³ – Highly Effective (- 18° F)
 - FHWA Minimum Levels of Retroreflectivity Ruling, effective January 22, 2008
- Technical Development Centre
 - History of **3M**. Star Trek is real! Immersive presentation
 - No boundaries – left field thinking
 - Pick 'N Mix approach



Summary

- ✓ – NZ 5 to 7 years ahead in network management
- ✓ – NZ leader in Safety Systems
- ✓ – Maintenance of existing infrastructure / asset key target
- ✓ – Do the basics well!
- ✓ – Safety Audit integral part of projects – new initiative
- ✓ – Congestion still a major issue
- ✓ – Local road networks poor cousins
- ? – USA -Safety Audit processes not a first consideration
- ! – Recovery Package linked to road safety requirements