

MAUNSELL AECOM

ITE Conference Miami 30 Mach -3 April

"New" safety emphasis throughout USA - theme of conference

USA has "made no progress on road safety in the last decade" -AASHTO President Peter Rahn

- E.g. Tampa FL, currently 5.95 crashes / 1,000 residents
- Focus is to reduce fatalities & serious injuries
- Target: halve fatalities in 20-yrs
- Requires: reduction of 1,000 fatalities/yr for each of those 20 years
- #1 cause of fatalities = Lane departure
- Make our roads safe campaign www.Makeroadssafe.org

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ITE Conference, Miami — 30 March to 3 April 2008

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USA now talks about crashes not accidents

Moving from "Crash Causes" to "Critical Reasons for Crashes"

- E.g. from rear-end crashes to lack of headway 3 to 5 sec headway
- "Self Organising" roads
- Value of time coupled with congestion is significant cause of driver aggression
- Highway Safety Programmes rather than emphasis on black-spots
- · Safety competes with other meaningful effects
- AASHTO Highway Safety Manual to be published 2009

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Lot of work on pedestrian crashes

Count-down timers on signalised pedestrian crossing places showing 25% pedestrian-crash reduction

- Also helping to reduce red-light running
- Still have very long crossings (6+ lanes)

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• Take care in transferring results as differences in road rules state/state and USA/NZ are significant

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Speed Limits

- California quoted as and example of good practice speed limits MUST be tied to 85-percentile speeds to be enforceable
- Speed limits have little effect on local road speeds
- Enforcement has little effect on local road speeds
- Incorrect speed limits are ignored by most drivers
- Speed limits do seem to have some effect on State / strategic roads
- Speed Limits must be reasonable:

 - It's not an attitude problemIt's not a knowledge problem
 - It's a behaviour problem

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Safety Culture

- Japan It is dishonourable to put others at risk
- "Your poor driving kills me"
- Lifelong learning:
- How to behave as a pedestrian children need to walk!
 How to behave as a driver

- When you drive just drive stay alive
 I am responsible for my own driving

Behaviour is not culture! What is "Road Safety Culture"? How do

Involve cultural anthropologists in changing culture – would you let a c-a design a bridge?

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Pedestrian Safety

- New York, NY "Walkers are the oxygen of the city" Reduced asphalt improved traffic
- Different width traffic lanes across roadway | 10-ft next to kerb | 11-ft | 12-ft |

Importance of Safety Champions – see our own SMSs

50,00 public agencies in the US with responsibilities towards road safety

Marrying safety and sustainability

OECD to publish study on achieving aggressive road safety targets

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The four "Es" of road safety

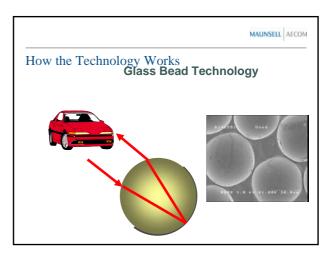
- Engineering
- Education
- Enforcement
- · Emergency Services

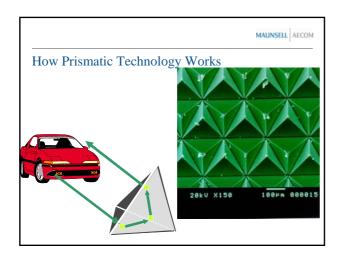
Why do we ignore the fourth one in NZ?

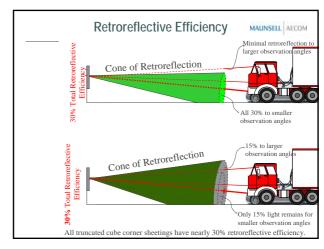
MAUNSELL AECOM 3M - Saint Paul, Minnesota

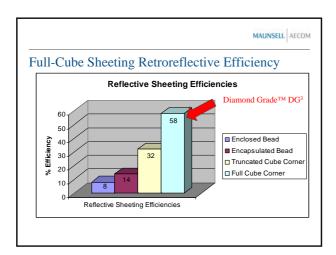


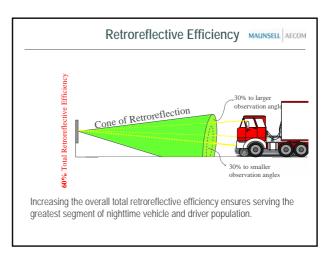


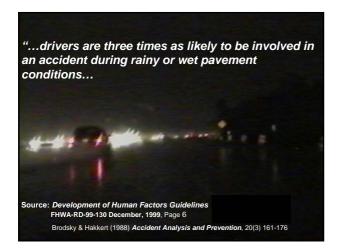


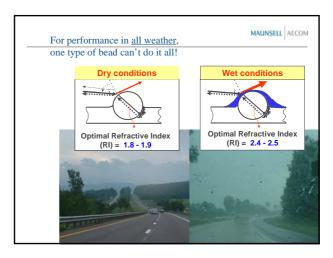












But even large beads lose reflectivity covered with water. 3M wet elements maintain retroreflectivity

All weather marking Paint with large beads

WATER

3M - St Paul
Tape milled into surface
Snow-ploughable RRPMS
3M have weathering data from around the globe that allows them to predict the life of their signs

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Other Observations from the trip

Advance road names signs are great!

Lack of "Town Name" signs is not

Warning distances in feet

- "Next Exit 1500-ft"
- big numbers hard to comprehend

Courteous drivers

Canada "50 km/h = 30 mph" sign but still with USA style speed limit signs



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Thank you



In the USA

- Fuat Aktan,
- James Ritchie,
- John Tobin andGeri Ritchie

In N7

- Alan Parker and
- especially Storm Robinson Sales Engineer for the South Island