

GOVERNMENT INITIATIVES

Regulators Perspective Reducing Road Trauma

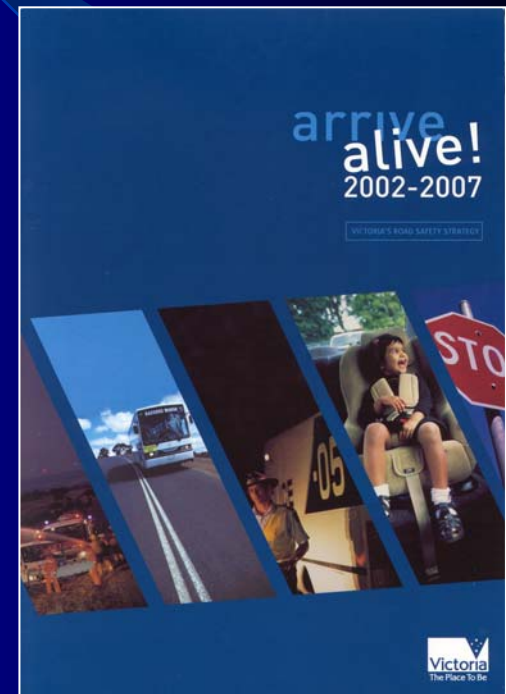
IRTEENZ 2004

Ross Mc Arthur
Manager - Vehicle Safety
VicRoads



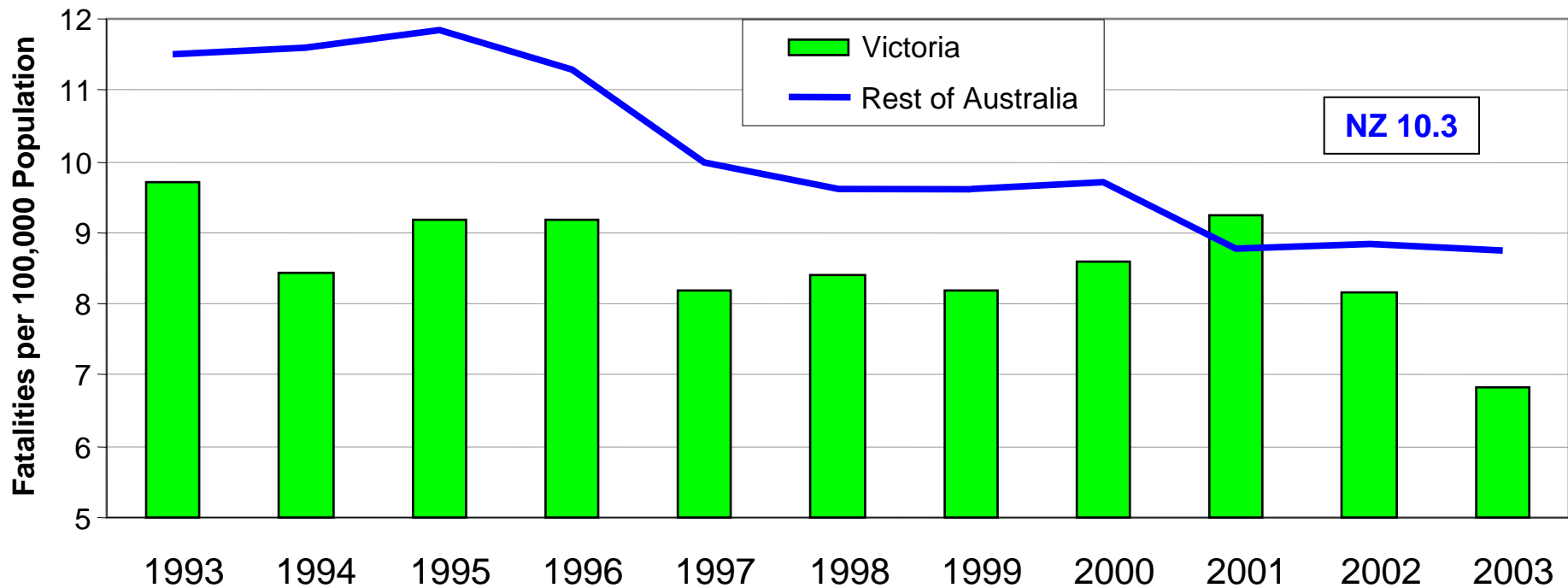
arrive alive! Victoria's Road Safety Strategy 2002-2007

- A five year plan to improve road safety
- Target of a 20% reduction in death and serious injury by 2007
- National target 40% reduction over 10 years

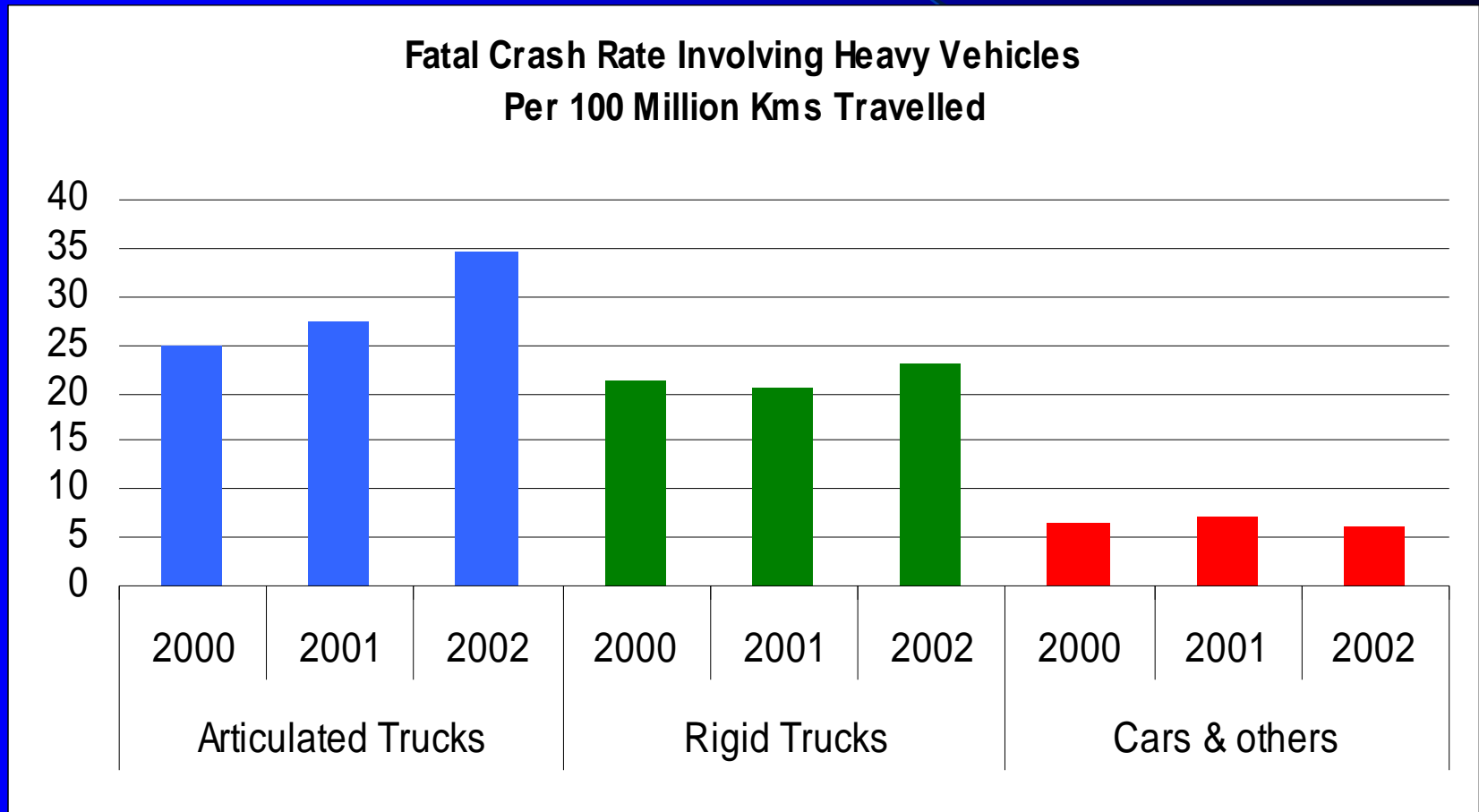


Victoria's Road Toll

Fatalities per 100,000 Population
compared to that for the rest of Australia



Heavy Vehicle Crash Rates



* Source: ABS - Survey of Motor Vehicle Use (9210)

IRIENZ 2004

Heavy Vehicle Crash Involvement

- Between 1998-2002:
 - 5.3% of crashes involving a heavy truck were fatal crashes (country 9.6%, metro 3.5%)
 - 1.8% of crashes **not** including a heavy vehicle were fatal crashes
- The involvement of a heavy vehicle increases the risk of a fatal crash by 2.9 times

DELIVERING SAFER TRANSPORT

CHALLENGES

- **Growth in the freight task**
(>70% Urban by 2020. Auslink)
- **Deliver Safety with Mobility**
- **Mass Incompatibility**



FUTURE

New Safe System Approach

- Based on the premise that accidents are going to happen (even with focus on prevention)
- Someone should not lose their life because they make a simple mistake
- System designed to limit external forces so that so collisions do not result in death /serious injuries
- **Individuals responsible for abiding by rules**

Avoiding Crashes

Reducing energy

- **Road infra-structure**
- **Improving Compliance with law**
- **Set appropriate Speed limits**
- **Vehicle Maintenance and Safety Standards,**
- **Safe System is about Balancing these factors**

INFRASTRUCTURE

Countermeasures for Head on Crashes.

- Road duplication
- Tactile centre lining
- Improved curve delineation
- Shoulder sealing
- Potential Measures
 - Narrow medians



Countermeasures for Run-off-Road Crashes

- Wire Rope Barriers



COMPLIANCE

Compliance Focus

- Speed compliance
- Driver impairment
- Seat Belt wearing
- Performance Based Standards (PBS)
- Improved Vehicle Maintenance

Legislation

- OH&S Vehicle is work place
- National Driving Hours
- National Chain of Responsibility - Yet to have an effect
- Heavy Vehicle Safety Act
 - Power Collect records
 - Power to read computers
- Random Drug Testing
- 3 Strikes – Ineffective to date



SPEED

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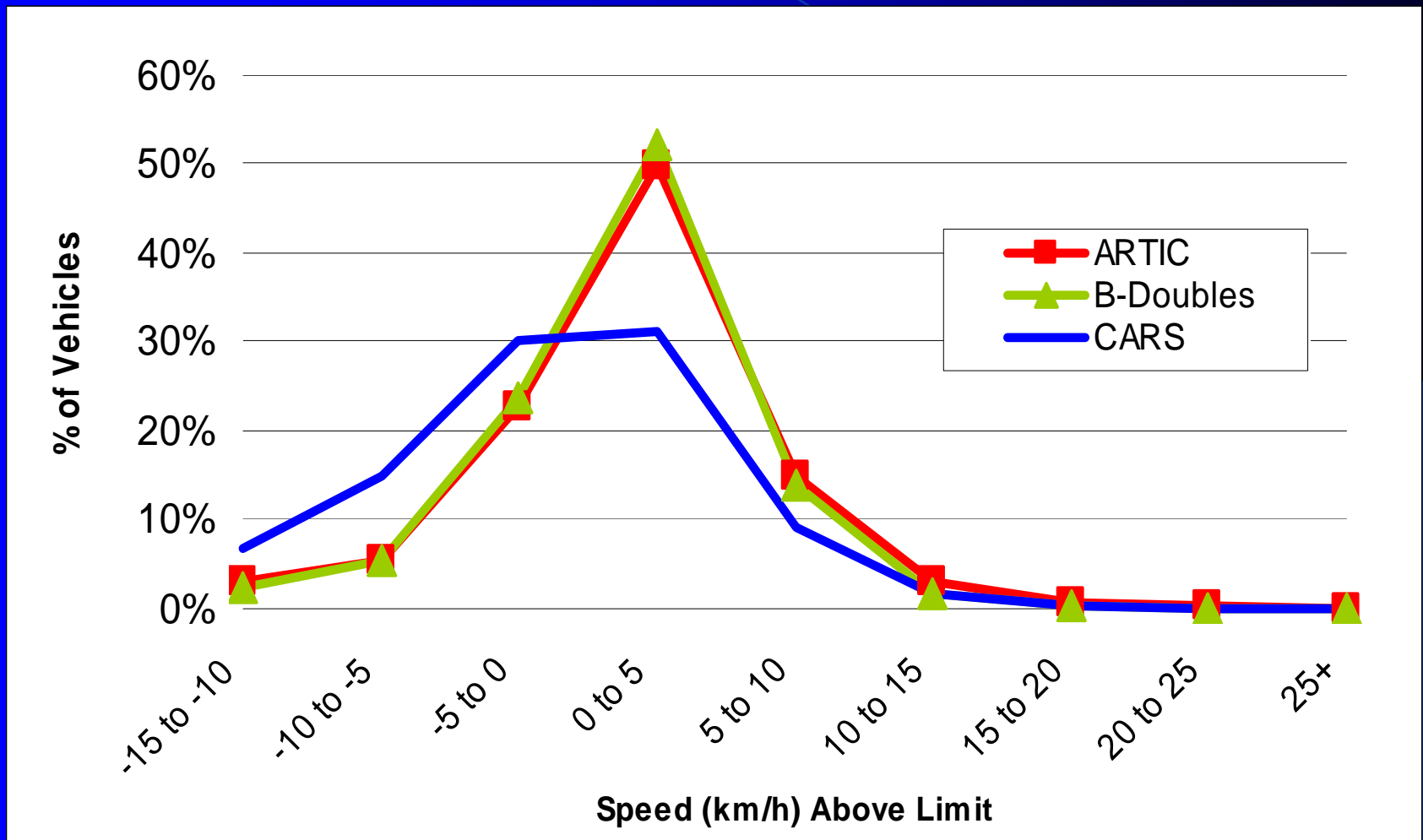
Speeding Vs Risk

Austrroads Class 9 vehicles exceeding posted speed limits (100 & 110 km/h roads)

Amount over limit	<10 %	10-15%	15-20%	20-25%	25-30%	30-35%	35-40%	40-45%	45-50%	>50 %
Indicative relative risk	1.5	2.8	4.5	8	13	24	47	94	198	432

ATSB

Speed Distribution by Vehicle Type Hume Freeway



DRIVER IMPAIRMENT

Measures

- Information on health
 - Health Break
 - Guide to OH&S Programs
- Web based Sleep Disorder Screening Program
- **Targeted Saliva Testing for Drugs**

Targeted Saliva Testing

- In 2002, 27% of all drivers killed tested positive to drugs other than alcohol
- Drivers who have recently used cannabis are at the same risk of having a road crash as having a BAC of 0.15.
- Heavy vehicle drivers who test positive to stimulants (amphetamines) are at the same risk as a person with a BAC of 0.10 to 0.15.

Implementation

- Victoria Police are preparing for the commencement of roadside screening later in 2004.

Seat Belts

- NSW Crash study between 1995 and 1998. 200 drivers of prime movers with trailers
- For those who were not wearing a seat belt, 45% were killed or injured.
- Of those wearing a seat belt none were killed or seriously injured, and 30% had minor injuries.

PERFORMANCE-BASED STANDARDS

Content based on a similar presentation
prepared by the NRTC for the ATC

Why Develop Performance Standards?

- freight task increase significantly
- Reduced Transport costs
- Better utilization of infrastructure
- Allows for introduction of leading edge technology
- **Better compliance/ safety**

Fit on Roads

- PBS vehicles will need to show they can fit in the available road space and are stable



IKTENZ 2004

- making low speed turns,
- stopping
- starting
- travelling at high speed within a lane

MAINTENANCE

Goose-neck



Poor Repair



MAINTENANCE SYSTEM

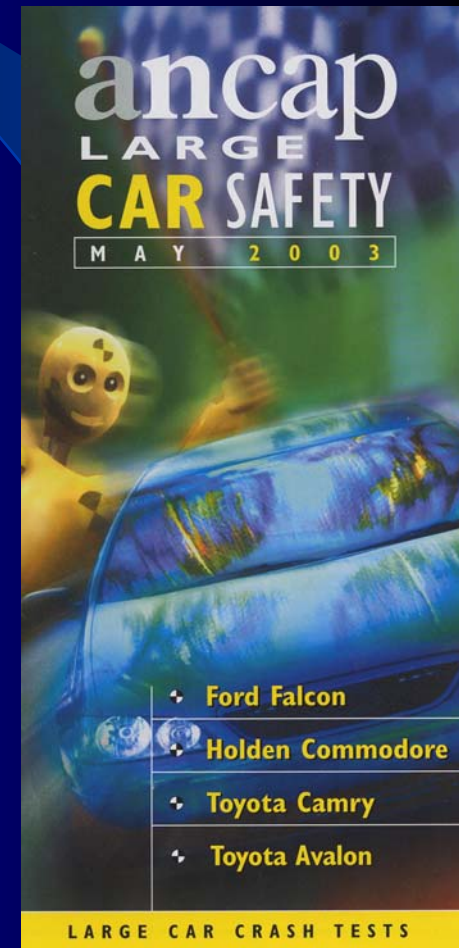
- Victoria Mandatory Periodic Inspection not supported
- Promotion of regular routine maintenance
- National Maintenance Accreditation Scheme
- Supported by Random Inspections

VEHICLE STANDARDS

Marketing Safer Vehicles

- Build consumer awareness and demand for safety features
 - Fleet managers and operators
- Doing it with cars – ANCAP
- Looking to do it with heavy vehicles

IRTENZ 2004



Key Focuses

- Under Run Protection
- ABS/Traction Control
- ITS
 - Lane keeping
 - ISA
 - Object detection
 - Black Box recorders

SAFETY IS A TEAM GAME?

- **Requires Governments and industry to work together**
- **To deliver safety with mobility**