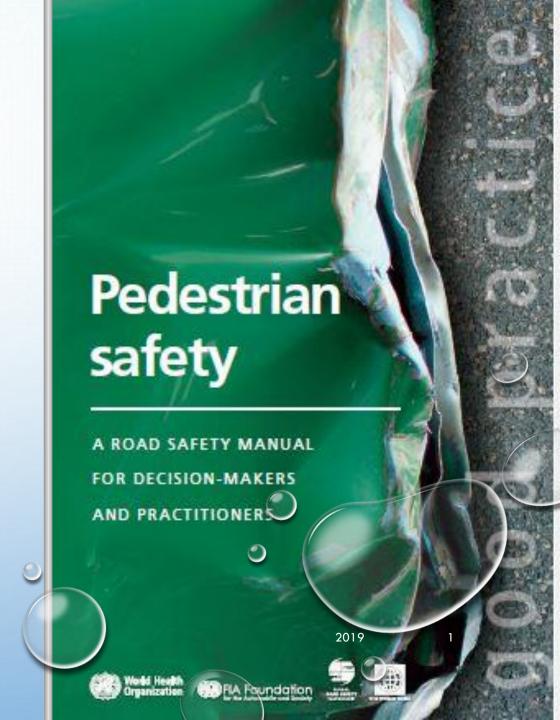
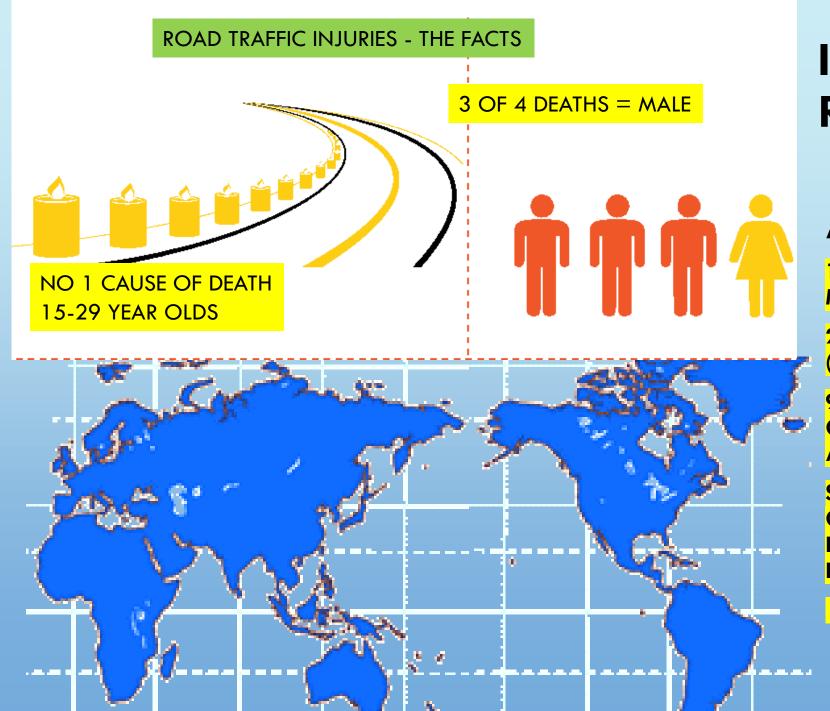
# 1.10 ENFORCEMENT & EDUCATION FOCUS ON SOLUTIONS

DR RAY SHUEY APM

INTERNATIONAL ROAD SAFETY
SPECIALIST

Royal Australasian College of Surgeons Melbourne 13<sup>th</sup> November 2019





### INTERNATIONAL ROAD TRAUMA

A GLOBAL EPIDEMIC

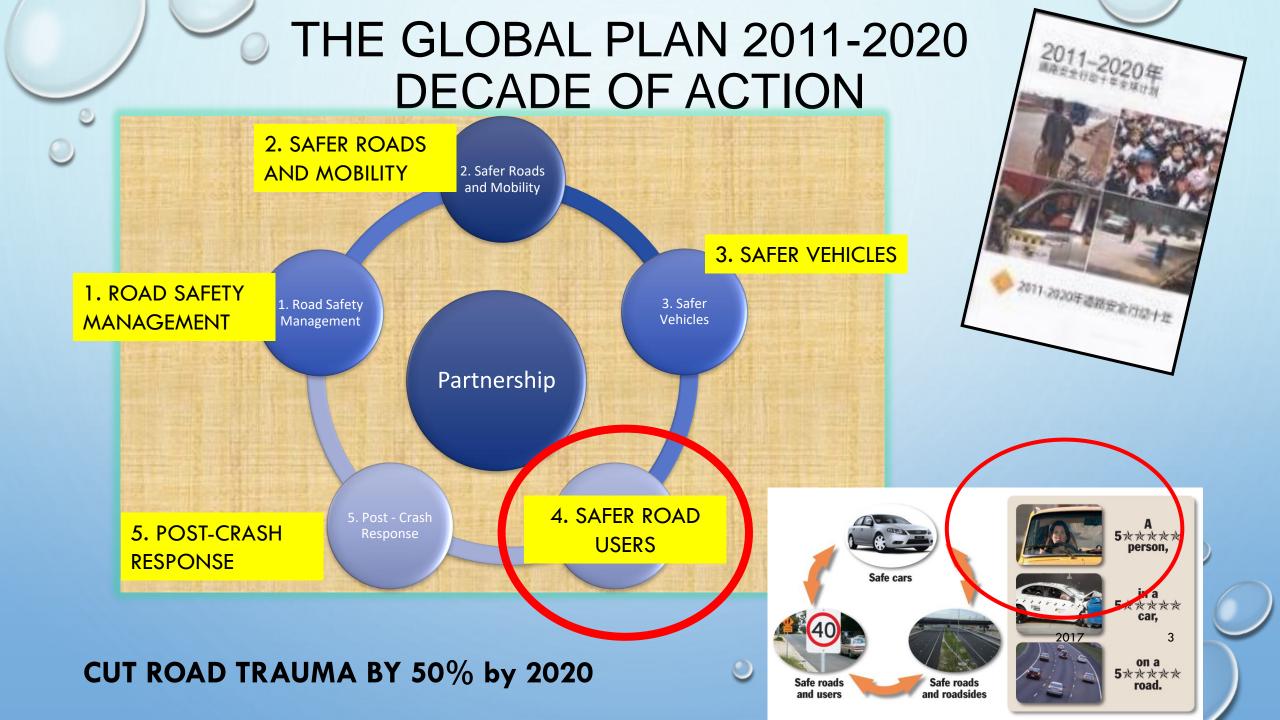
1.35 MILLION DEATHS - 50 MILLION INJURIES

200,000 PEDESTRIAN DEATHS (VULNERABLE)

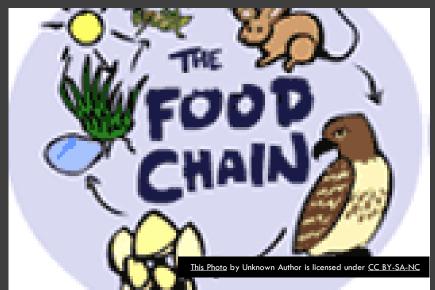
90%-95% OF ROAD TRAUMA
CAUSED BY CARELESS/DELIBERATE
ACTIONS

SPEED, DRINK & DRUG DRIVING, OVERLOADING, DANGEROUS DRIVING, FATIGUE, DISTRACTED DRIVING

- ALL PREVENTABLE OFFENCES









• ROAD USER BEHAVING = ENGINEER OUT PROBLEMS
• POST-CRAS FUNDING THE CUS & FUNDING 2. Vehicles
2. Vehicles
Driver behaviours EDUCATION/AWARENESS,

> MIC IMPACT = DRAMATIC REDUCTION IN **CRASHES**

### PEDESTRIANS – THE COLLATED FACTS

### **RISK ANALYSIS VICTORIA - 2018**

37 DEATHS/211 LAST

**LAST 5 YEARS = 37 PA LAST 10 YEARS = 400** 

AGE: TIME; DAY; SPEED ZONE? METROPOLITAN; COUNTRY?

PLAYING, WORKING, STANDING OR LAYING ON

**ROAD** 

17%

NO CHANGE = 10 YEARS DECADE OF ACTION?

RISK ANALYSIS AUSTRALIA - 2018

6PM-9PM WEEKDAYS
MIDNIGHT-3AM
WEEKENDS

SINCE 2005- PEDESTRIAN % RELATIVELY STABLE (BITRE)

ELDERLY RATE HIGHLY

**MALES** 

AVERAGE 15% ROAD USERS EVERY YEAR

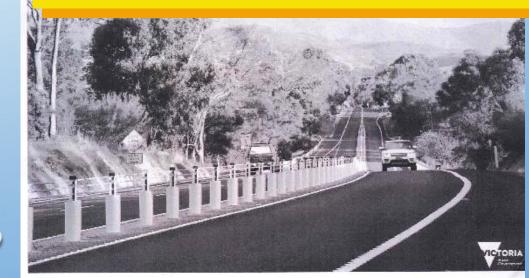
NO CHANGE = 10 YEARS DECADE OF ACTION?

INSUFFICIENT DATA! FURTHER RESEARCH NEEDED
TO IMPROVE UNDERSTANDING (BITRE)



### TOWARDS ZERO

## PEDESTRIANS = 36 REFERENCES FOCUS ON INFRASTRUCTURE \$100 MILLION





VICTORIA POLICE

Road Policing Strategy Towards Zero 2019-2020

PEDESTRIANS = 1

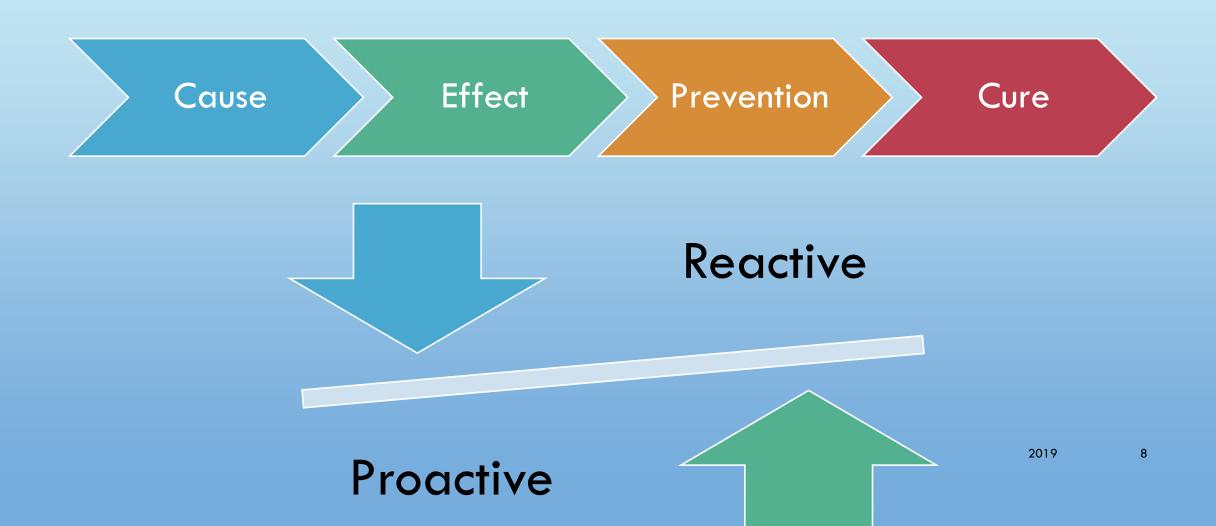
REFERENCE

POP GROWTH = MORE

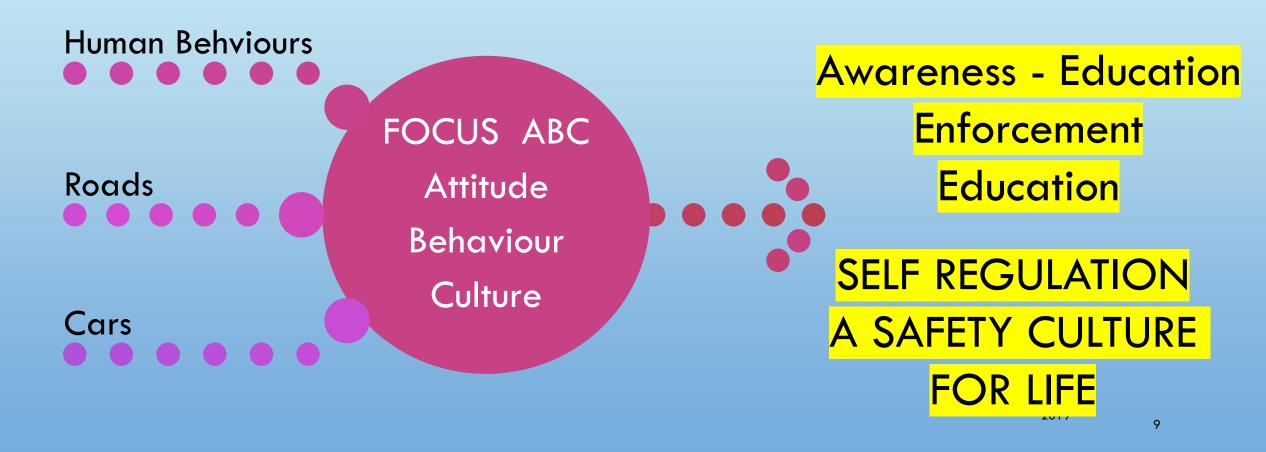
PEDESTRIANS



### MEDICAL RESPONSE TO A GLOBAL EPIDEMIC



### RECOMMENDED ROAD POLICING RESPONSE TO A GLOBAL EPIDEMIC — ROAD TRAUMA



### INTERNATIONAL DATA - CRASH CAUSES

### **REALITY CHECK – RESEARCH**

- CRASH CAUSES 80-95% HIGH RISK, ILLEGAL
- HUMAN ERROR? SMALL %
- DRIVING LICENCE IS THE CORNERSTONE TO ANY EDUCATION

• REMEDY – GO FOR THE HEART OF THE PROBLEM = DRIVER/ROAD USER/PEDESTRIAN BEHAVIOUR



## ROAD SAFETY COMPLIANCE? TRIED AND TESTED

**GENERAL DETERRENCE** 

VS

**SPECIFIC DETERRENCE** 

1. CERTAINTY OF BEING CAUGHT

2. CERTAINTY OF BEING PUNISHED

3. IMMEDIACY OF PUNISHMENT



### PRINCIPLES OF EFFECTIVE ENFORCEMENT CHANGING HUMAN BEHAVIOURS

## MULTIPLYING YOUR ENFORCEMENT EFFECTIVENESS FOR EVERY POLICING ACTIVITY



2. REPEATED OFTEN (RISK OF BEING CAUGHT-EXERSISE & FITNESS)

- 3. FAIR AND CONSISTENTLY ENFORCED
- 4. WELATHER MUNITIELY WIND SUccess PERCEPTION: Anywhere / anybody O



## ENFORCEMENT WITHOUT STRATEGY

Has as much impact as swatting flies





### Driver/Pedestrian awareness of safety

Compliance with the law

Self-regulation

#### **LEGISLATION IS USELESS IF NOT ENFORCED**

**STEPS:** MUST MOVE THROUGH VOLUNTARY COMPLIANCE (INITIAL) TO MANDATORY COMPLIANCE THROUGH TO FULL ENFORCEMENT (NOW)



### POLICING STRATEGIES

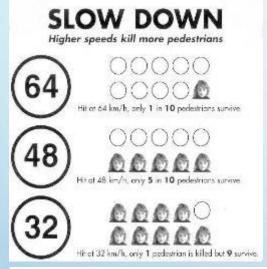
ENCOURAGE ALL ROAD USERS TO COMPLY WITH THE LAW — EDUCATION AND ENFORCEMENT

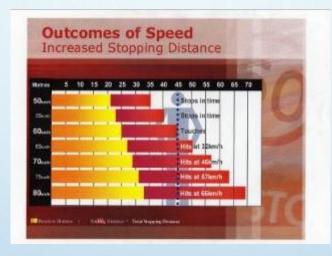
PROMOTE SAFE DRIVING/PEDESTRIAN HABITS — UNDERSTANDING THE RISKS, UNDERSTANDING THE DANGERS

DEVELOP A STRATEGY FOR ENFORCING THE LAW

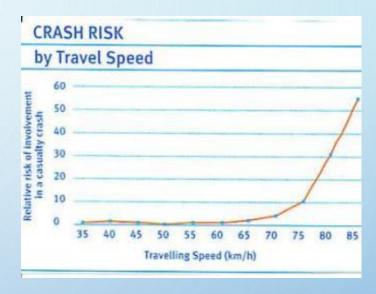
MUST MOVE QUICKLY FROM VOLUNTARY COMPLIANCE TO MANDATORY COMPLIANCE TO STRONG AND VIGOROUS ENFORCEMENT

### WE KNOW THE ANSWERS BUT DON'T EDUCATE & ENFORCE













11. Full intersection and safety featres





## CASE STUDY – OF FORTALEZA BRAZIL

- POLICE TRAINING
- IDENTIFIED PEDESTRIAN
   FAILINGS
- IDENTIFIED DRIVER OFFENCES
- IDENTIFIED INTERSECTIONAL ISSUES
- IDENTIFIED TECHNOLOGICAL ISSUES
- WARNINGS THEN ENFORCEMENT

### **BEHAVIOURAL CHANGE = ABC**







BEHAVIOUR

Behaviour Change

= Culture of Safety





**EDUCATION AND ENFORCEMENT** 

### CRASH INVESTIGATION - IDENTIFY THE REAL CAUSE

#### MANDATORY FOUNDATION:

- 1. PROFESSIONAL CRASH INVESTIGATION IS THE FOUNDATION FOR ROAD SAFETY REFORM
- 2. AN INVESTIGATION IS A SEARCH FOR THE TRUTH IN THE INTERESTS OF JUSTICE AND ACCORDING TO LAW.
- EVERY FATALITY SHOULD BE INVESTIGATED AS A HOMICIDE UNTIL THE CONTRARY IS PROVEN
- 4. IDENTIFY THE THREE PRINCIPLE CAUSES OF THE CRASH PRIMARY, SECONDARY, TERTIARY
- 5. IDENTIFY & DECLARE IN THE REPORT "MY RECOMMENDATION ON HOW THIS PARTICULAR CRASH MAY BE PREVENTED IN THE FUTURE".



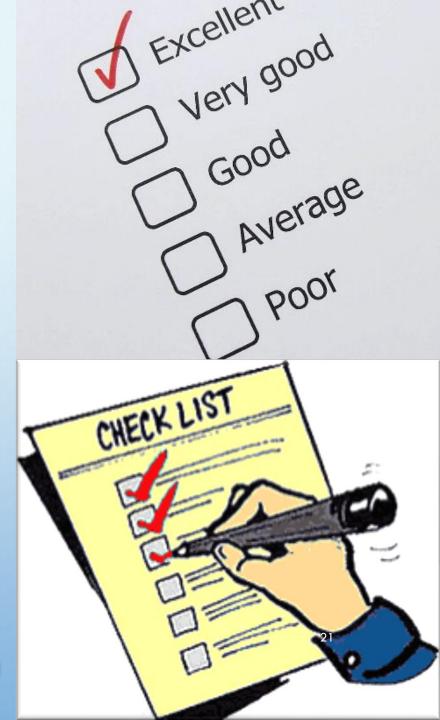


### BASIC EDUCATION, AWARENESS & ENFORCEMENT

- EDUCATION AND AWARENESS = FOUNDATION OF ROAD SAFETY
- 2. EFFECTIVE DRIVER TRAINING –
  TRANSFERRING KNOWLEDGE,
  SKILLS AND BEHAVIOUR
- 3. ENFORCEMENT TO INSTILL DISCIPLINE
- 4. NEED A COLLECTIVE AN COLLABORATIVE APPROACH

### FRAMEWORK FOR ACTION

- IMPROVE THE WAY WE COLLECT, ANALYSE AND PRESENT DATA — LEARN FROM EVERY CRASH/INCIDENT
- DEVELOP A COMPLETE PARADIGM SHIFT IN ATTITUDE CHANGE
- DEVELOP A CULTURE OF SAFETY AND RISK PERCEPTION
   FOR BOTH DRIVERS AND PEDESTRIANS
- POLITICAL AND COMMUNITY WILL (OWNERSHIP FOR BOTH)
- NEED TO PERSONALISE THE APPROACH GET THE WHOLE FAMILY INVOLVED
- MONITOR AND EVALUATE





### QUESTIONS?

