



INTERNATIONAL ROAD FEDERATION
FEDERATION ROUTIERE INTERNATIONALE

IRF REGIONAL CONFERENCE NORTH AFRICA – MEDITERRANEAN, MOROCCO 2013

Plenary Session 3: Road Safety

IRF Road Safety Masters Plans Guidelines

Presented by:

Hilton Vorster

20 March 2013





UN Secretary General – call for Action!

“I call on Member States, international agencies, civil society organizations, businesses and community leaders to ensure that the Decade leads to real improvements. As a step in this direction, governments should release their national plans for the Decade when it is launched globally on 11 May 2011.”

Mr Ban Ki-moon, UN Secretary-General

Global Plan

for the Decade of Action
for Road Safety 2011-2020



**DECADE OF ACTION FOR
ROAD SAFETY 2011-2020**





INTERNATIONAL ROAD FEDERATION
FEDERATION ROUTIERE INTERNATIONALE

IRF responded by developing Guideline Document to:

- Assist and advise municipal authorities to develop Road Safety Master Plans (RSMPs)
- Identify and quantify the road safety problems
- Follow a holistic approach (3Es)
- Involve decision makers public and media
- To obtain funding and establish partnerships
- Build institutional capacity



INTERNATIONAL ROAD FEDERATION
FEDERATION ROUTIERE INTERNATIONALE



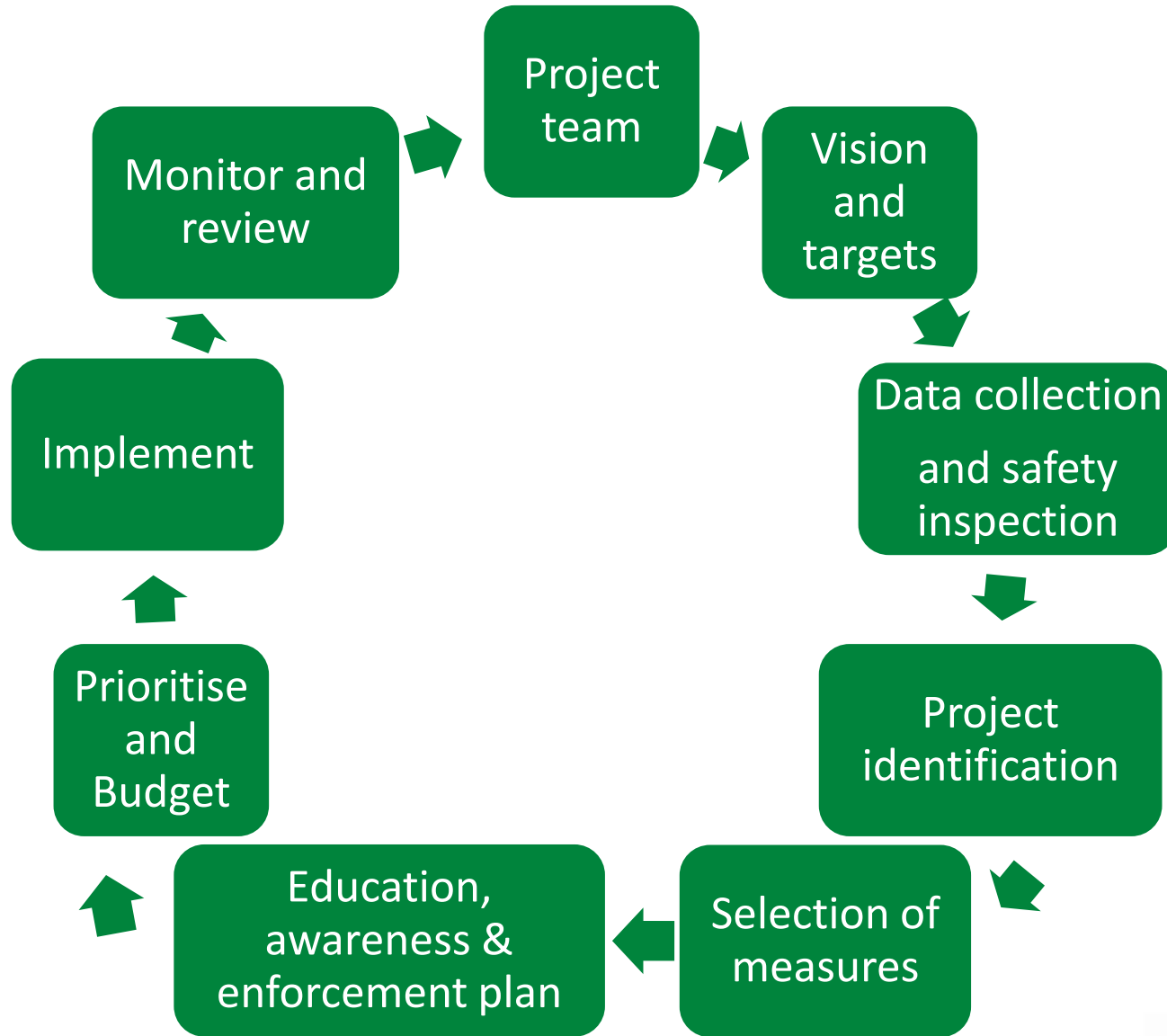
Guidelines for the Development of Road Safety Master plans

*A Publication of the IRF Road Safety Programme
and the IRF Group of Experts on Road Safety*





Master Plan Process



Key issues to consider (1)

- Data collection
 - Policy decisions should be based on reliable data. Development of data management systems should receive priority
 - Where crash data are not available use alternative sources of data eg community input (see City of Tshwane example - **gTKP website**)

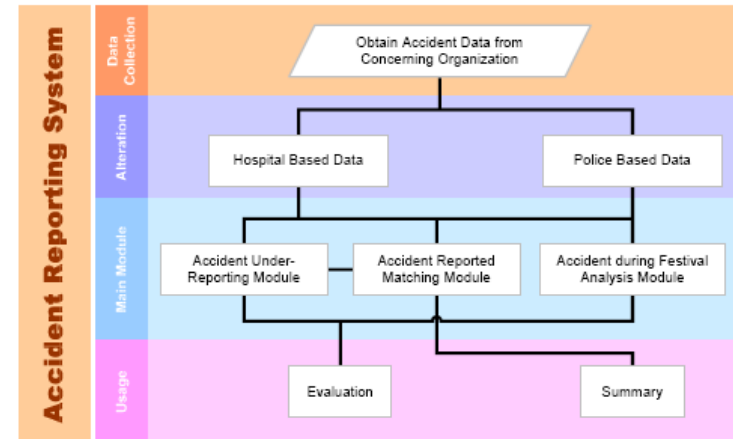


Figure 1. The Framework of Accident Reporting System

Journal of the Eastern Asia Society for Transportation Studies, Vol. 6, pp. 3453 - 3466, 2005





Community collaboration

If crash data are not available:

- Obtain community input to identify hazardous locations.
- Establish a Road Safety Project Team consisting of:
 - Traffic engineering practitioners
 - Representatives from traffic police
 - Community representatives (Councillors and ward committees)
- This will :
 - Ensure that needs are taken into account
 - Create a sense of ownership
 - Develop leadership and management skill
 - Needs of target groups, such as scholars, the elderly and people with disabilities are taken into account





Key issues to consider (2)

- Road safety investigation
 - Undertake road safety investigations to establish causes of crashes and remedial measures
 - Measures and programmes must include:
 - Engineering measures
 - Law enforcement plans
 - Education and awareness programmes
 - Identify remedial measures





Education at Schools

Posters and education in schools



Youth and Road Safety

Are you staying safe on the roads?

ARE YOU STAYING SAFE ON THE ROADS?
Most young people who are injured or killed are cyclists, pedestrians and motorcyclists.

WHY WEAR A HELMET?
Wearing a helmet is the only way to minimise the likelihood of head injuries.

ARE YOU SPEEDING?
Speeding is the most common traffic violation committed by young drivers.

KNOW YOUR LIMITS BEFORE YOU DRINK AND DRIVE!
Inexperienced drivers are 2.5% more likely to have an accident after consuming alcohol than experienced drivers.

SEAT BELTS SAVE LIVES!
Seat belts and child seats reduce the risk of death.

CROSS ROADS CLEVERLY.
For your own safety, always look out when crossing at traffic islands, zebra crossings and roundabouts.

Be ALERT – don't get distracted by cellphones, iPods or friends.

Always walk **FACING** oncoming traffic.

Wear reflective and light-coloured clothing at **NIGHT** so that you are **VISIBLE**.

Don't walk or play in the road, and wear **BRIGHT COLOURS** during the day.

ALCOHOL AND DRUGS IMPAIR YOUR JUDGEMENT AND ABILITY TO WALK!

World Health Organization
Road to Better Health Organization

Each year, nearly 400 000 people under 25 die on the world's roads – on average more than 1 000 a day.

- Speeding is the most common traffic violation committed by young, male drivers and contributes to almost one-third of all road traffic accidents.
- Wearing a helmet is the most effective way of reducing head injuries and fatalities from motorcycle accidents.



INTERNATIONAL ROAD FEDERATION
FEDERATION ROUTIERE INTERNATIONALE

Low cost improvements

Pedestrians crossing the road



Walkways and raised pedestrian crossing





INTERNATIONAL ROAD FEDERATION
FEDERATION ROUTIERE INTERNATIONALE

Low cost improvements



Raised pedestrian crossings:
Schools and high pedestrian
areas – link with walkways
Clear road signs





INTERNATIONAL ROAD FEDERATION
FEDERATION ROUTIERE INTERNATIONALE

Low cost improvements



Raised pedestrian crossings and canalisation of pedestrians





Pedestrian Bridge

Vulnerable road user,
mother and child crossing
freeway



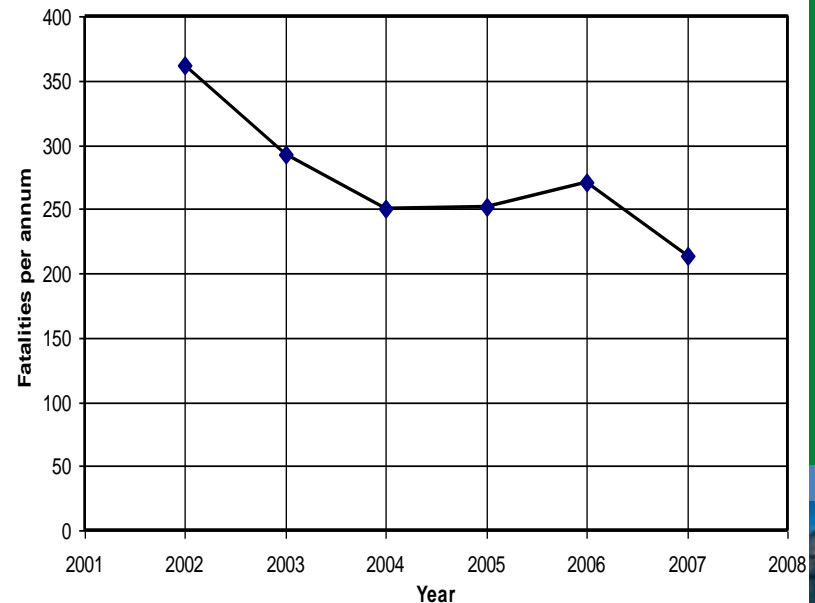
Pedestrian bridge and
walls along the freeway –
Partnership project
between South African
National Roads Agency
and City of Tshwane





Key issues to consider (3)

- Implementation
 - Create jobs through local labour and contractors
- Monitor and review:
 - Institutional effectiveness
 - Impact effectiveness





INTERNATIONAL ROAD FEDERATION
FEDERATION ROUTIERE INTERNATIONALE

Output of process



2. Political buy-in and funding



3. Education and awareness plan



4. Law enforcement plan



1. Master Plan with priorities





Case studies

- Identification of Hazardous Locations and Ranking measures to improve Safety in Local Rural Roads – University of Catania
- Stimulating Political Commitment and Support for Road Safety
- Traffic Calming Measures in School Zones – Abu Dhabi Municipality
- Risk based Prioritisation of Road Safety Remedial Works – ARRB
- The R300 Freeway Project – South African National Roads Agency Limited
- Using Design Plans to Set Minimum Star Ratings for Roads - iRAP





Conclusions

- Road Safety Master Plans is an essential tool for authorities to identify road safety problems, develop and prioritise remedial measures, obtain political buy inn, source funding and implement the measures
- The IRF Guidelines for the Development of Road Safety Master Plans provides a practical tool to assist authorities to develop the Master Plans





INTERNATIONAL ROAD FEDERATION
FEDERATION ROUTIERE INTERNATIONALE

Thank you!

Hilton Vorster
+27123587950 (W); +27123587731 (F)
hiltonv@tshwane.gov.za or
hiltonv@icon.co.za

