

Developing Safe Road Transport Corridors

Martin Small Africa Transport Policy Forum Dakar, December 2013

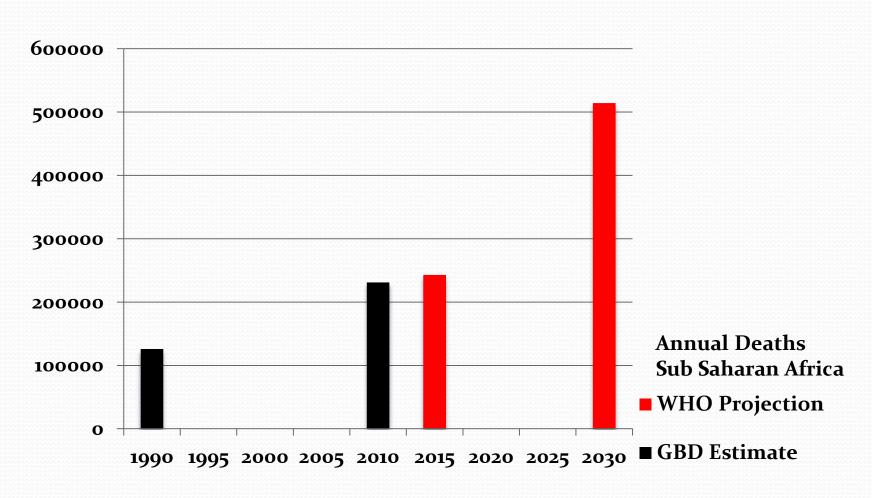
Outline

- The African road safety crisis
- Introducing "Guidelines for Mainstreaming Road Safety in Regional Trade Road Corridors"
- Some brief observations on the Abidjan-Lagos Corridor
- Safe corridors and integration with International Road Assessment Program (iRAP)
- Step by step guidance on safe road transport corridors
- Some ways forward

Globally, road traffic injury is a major health issue

- WHO estimated 1.24 million fatalities occurred on the world's roads in 2010
- Road traffic injury in 2010 was estimated by the Global Burden of Disease study to be:
 - The no.1 cause of death worldwide for 15-24 year olds
 - The no.2 cause of death worldwide for 25-39 year olds, behind HIV/AIDS
 - The cause of twice as much death as malaria
- WHO projections are for road traffic injury to accelerate, and overtake HIV/AIDS as a cause of death by 2030

In Africa, we are witnessing a road safety crisis



The African road safety crisis is set to escalate at the same time as some control is exerted over Millenium Health Goals

		2015	2030	% change
Road Traffic	Deaths	242,530	513, 632	+111.8%
	Deaths/100,000 people	25.1	38.0	+51.4%
Malaria	Deaths	401,708	426,530	+6.2%
	Deaths/100,000 people	41.6	31.6	-24%
HIV/AIDS	Deaths	1,147,589	1,317,788	+14.8%
	Deaths/100,000 people	118.9	97.5	-18%

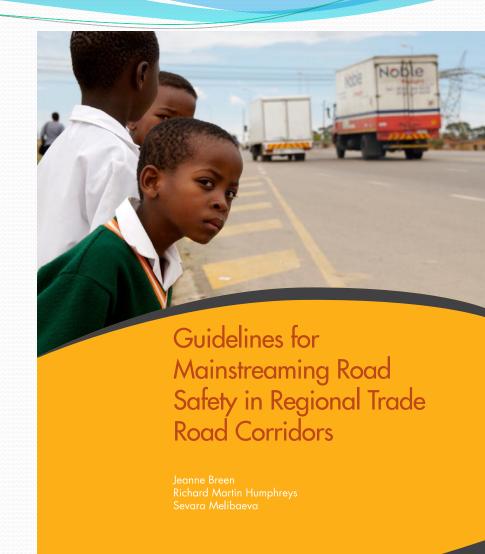
WHO 2013 Projections for Sub Saharan Africa

Effectively responding to the escalation in road traffic injury in Africa will require

- The prevention of road traffic death and disability to be formally recognised as an international Post 2015 development priority, like Malaria and HIV/AIDS
- Lead road safety agencies to be established if they do not already exist, or strengthened, in order to effectively lead sustained safety improvements in African states
- Investment in regional trade road corridors which breaks the link between development and death, through systematic mainstreaming of road safety
- Other key management and investment decisions; a stronger road safety voice for Africa; knowledge transfer, data systems; and driver and vehicle regulation

Important new investment guidelines ...

A systematic and logical process for directly addressing priority road safety needs on regional corridors in a streamlined and iterative manner relevant not only within Africa, but also to other developing regions of the world.





... addressing the heart of the development problem

Very often the improvements implemented under most trade and transport corridor projects in developing countries are compromised by increases in road traffic crash risks and casualties.

Dr Etienne Krug, World Health Organisation

Abidjan-Lagos Corridor

Ghana's Building and Road Research Institute estimated that 60-80% of the accidents on the Ghanaian part of the Abidjan-Lagos Corridor are concentrated in settlements along the road

The victims are first of all crossing pedestrians hit by vehicles passing through the settlements, often children and elderly, frequently from the less privileged parts of the population



The coastal Abidjan – Lagos Corridor

The George W Bush Highway

There has always been, and still is, considerable pedestrian movements across the road, which was increased from 2 to 6 lanes and offers no median protection for pedestrians

Pedestrian bridges and signalized zebra crossings in some junctions are provided, but are insufficient to cater for the thousands of pedestrians crossing the road every day





The Problem

Vehicle speeds have significantly increased. The result is numerous fatal collisions between crossing pedestrians and vehicles.

This situation is not unique to Accra, to Ghana or to Africa. Throughout the world, road networks are being designed and built which when used will result in trauma

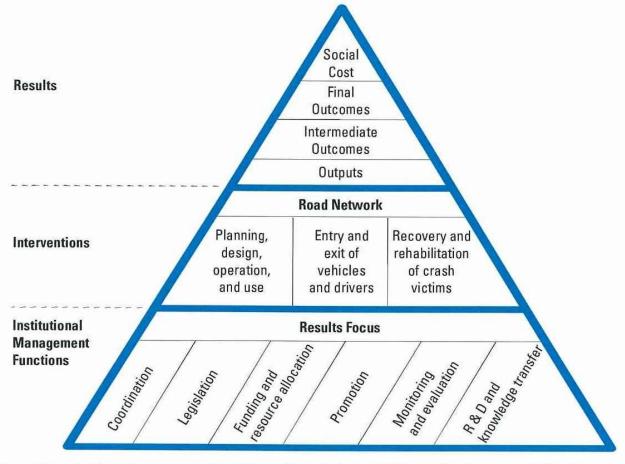




Targeting regional trade road corridors (RTRC) for road safety investments

- Road safety investments in RTRCs present the best opportunities for intervention and achieving road safety results. Typically, about 50% of deaths take place on just 10% of the road network
- These corridors are characterised by high traffic volumes and speeds and often an unmanaged mix of motorised traffic, and non-motorised users
- By targeting these corridors, national and regional entities have an opportunity to make rapid progress in strengthening road safety management capacity and to quickly improve results

The road safety management system

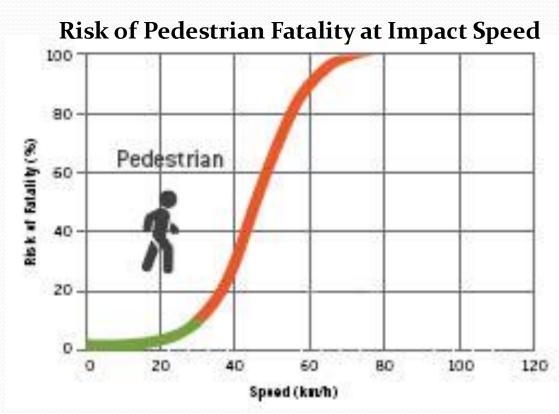


Producing road safety

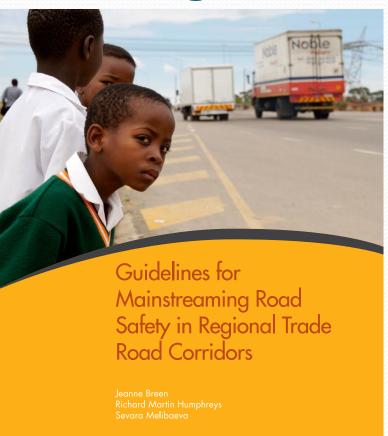
- Institutional management functions produce interventions, which in turn produce results
- The necessary scale of investment requires support at a country, donor and multilateral bank level
- Senior expert advice is needed, particularly at establishment phase
- The Africa Road Safety Plan recommended that 10% of road infrastructure investment and 5% of road maintenance expenditures by member states be allocated to road safety.

Some Starting Principles for Corridor Safety

- A safe road transport corridor accounts for:
 - the highly vulnerable human body
 - the human propensity for error
- Road safety expenditure is an investment

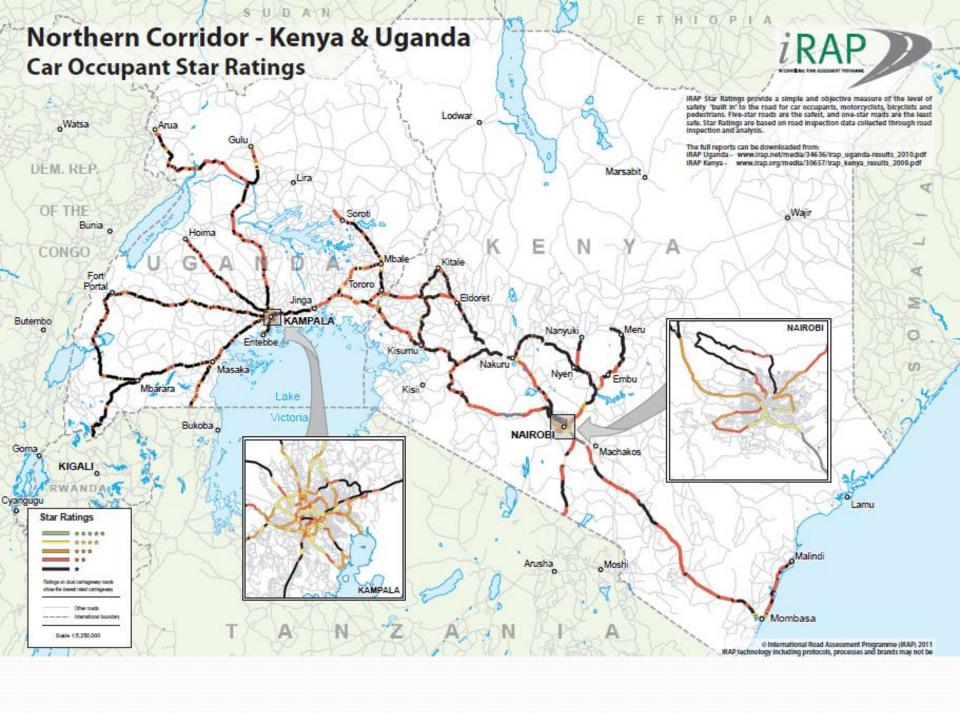


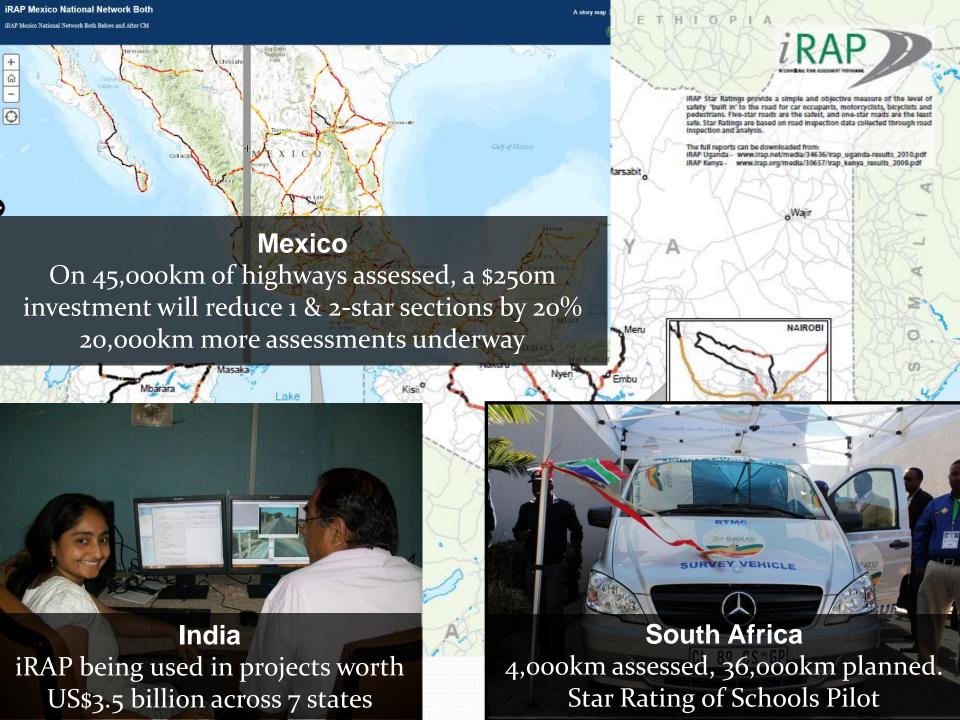
Integrating iRAP in corridor projects is a significant strategic step



- iRAP recommends target highest volume 10% of roads in each country
- iRAP economic analysis justifies:
 - a minimum 3-star safety rating for all new road projects
 - a minimum 4-star safety rating for 50% of traffic volume
- National government leadership creates "your" RAP
- Build local capacity and supplier networks



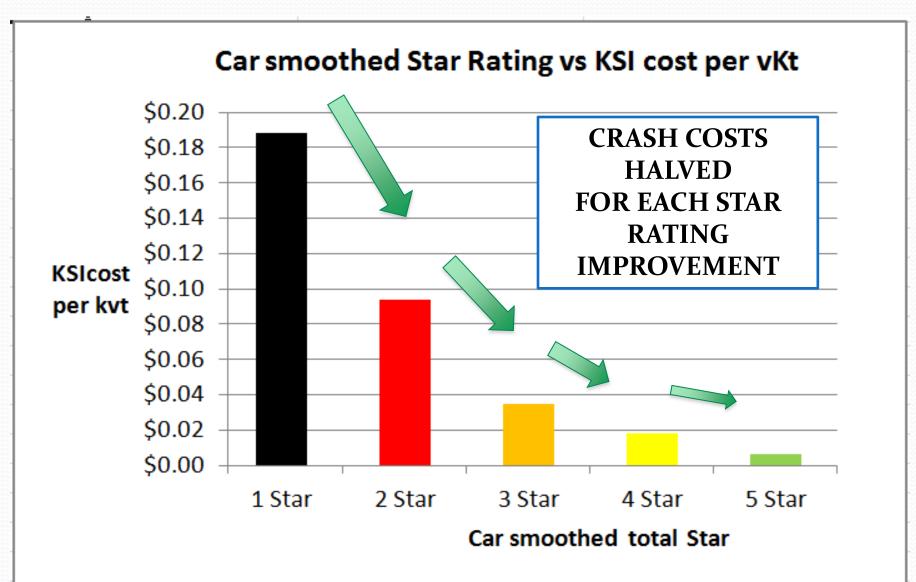




iRAP assessment is a key aspect for applying guidelines

• Identify priority corridors Step Train Local Stakeholders Conduct iRAP Assessment Step 2 • Develop Star Ratings of Existing Road Network Step 3 • Develop iRAP Safer Roads Investment Plan Step 4 • Design new roads to minimum 3-star standard Step 5 • Construct new 3+ star road • Celebrate new star rating Step 6

Star ratings match results



Guidelines approach

- These best practice guidelines for mainstreaming road safety in RTRC investment programs in LMICs:
 - Complement the existing World Bank road safety management guidance
 - Identify best practice for road safety management in RTRCs
 - Benchmark road safety management capacity in RTRCs in LMICs and Regions
 - Address critical success factors
 - Specify the generic components of a RTRC road safety project

Critical Success Factors

- The critical success factors addressed in these guidelines are
 - building road safety management capacity through institutional reform
 - accelerating knowledge transfer through "learning by doing" projects
 - sustainably scaling up targeted regional and country investment
 - sustainably increasing international cooperation and development aid support

Step by Step Guidance

Four project phases, broken down into ten steps and a number of tasks

Each phase is supported by templates for Terms of Reference for Technical Assistance Phase I: PRELIMINARY PROJECT SCOPING

Phase II: SPECIFICATION OF

PROJECT CONCEPT

STEP 1:

- Designate corridor lead agency
- Establish broad scale of project and preparation and delivery budgets

STEP 2:

Determine desired regional/ country corridor road safety performance

STEP 3:

Identify regional/country corridor road safety priorities

STEP 4:

 Specify best practice interventions & policy reforms designed to address corridor road safety priorities

STEP 5:

 Formalize regional / country agency responsibilities for selected best practice interventions and policy reforms and review agency delivery capacity

STEP 6:

Refine specified best practice interventions and policy reforms

STEP 7:

Specify project monitoring and evaluation systems and project management arrangements

STEP 8:

Prepare project concept note and secure official endorsement

STEP 9:

STEP 10:

 Undertake detailed project design and secure official endorsement

A CONTRACTOR

Manage delivery priorities

Phase III: DETAILED PROJECT SPECIFICATION

Phase IV: PROJECT IMPLEMENTATION

Example Phase I: Preliminary Project Scoping

STEP 1: Designate corridor lead agency and establish broad scale of project and preparation and delivery budgets.

- Task 1.1 Define the boundaries of the project RTRC and the broader institutional and investment context for the delivery of the proposed road safety project.
- Task 1.2 Designate lead agency responsibility for the proposed road safety project and assess its delivery capacity.
- Task 1.3 Agree on the overall scale of project investment proposed.
- Task 1.4 Secure sufficient project preparation funds.

Example (cont)

Template Terms of Reference for Technical Assistance for Phase I (Project Scoping), and Phase II (Specification of Project Concept)

- Assessment of designated Lead Agency capacity
- Review of corridor road safety priorities
- iRAP survey of corridor
- Specification of project components

The template ToR for Technical Assistance covers every aspect of management functions and interventions needed to support an effective corridor project

Conclusion

- We are witnessing a road safety crisis in Africa
- Many critical actions need to be taken, including establishing road safety as an international development priority, and ensuring we have strong lead agencies to lead country efforts
- A significant scaling up of safety investment is necessary
- SSATP's new corridor guidelines bring together trade corridor investment with best practice safety interventions and road safety management capacity.
- Countries, banks and donors can achieve strong cost effective results by applying these guidelines in their corridor investments