

ROAD PAVEMENT FORUM

29th Meeting
Cape Town, Western Cape

SANRAL's Road Safety Focus Areas

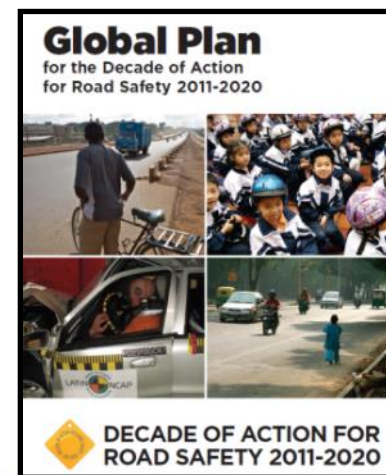
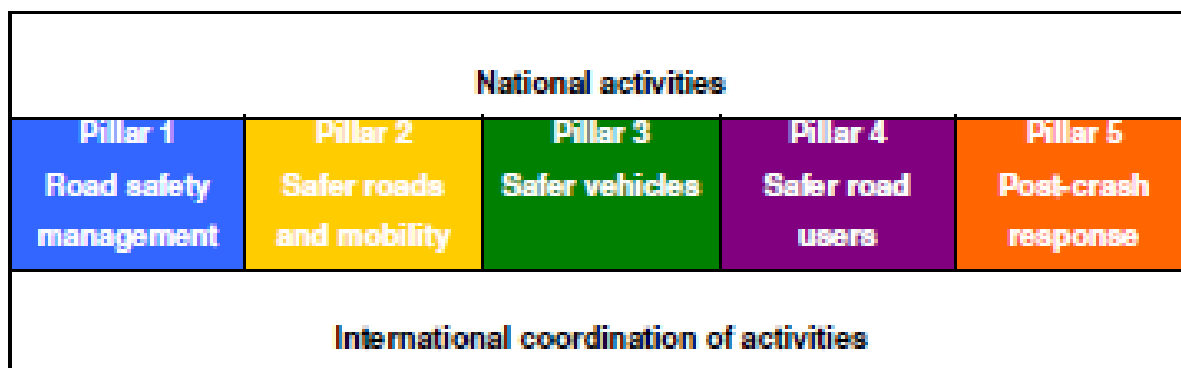


12 May 2015

Kobus van der Walt, Randall Cable

Road safety – A Global Issue

- Road deaths **increased by 46% between 1990 and 2010**
- Some **90% in LMICs** and the victims are predominantly vulnerable road users, males, and include the **most socio-economically active citizens**
- Estimated:
- By **2030**, around **96% road deaths** will occur in LMICs

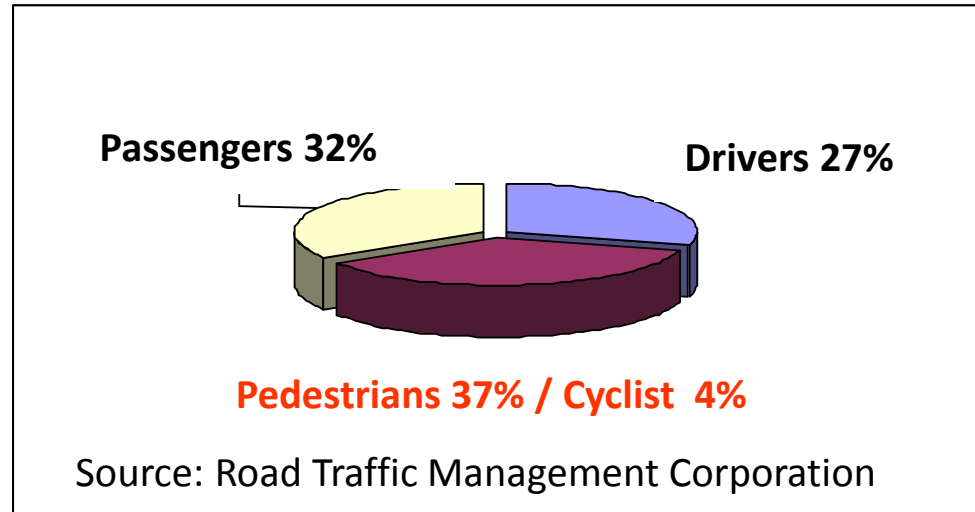


Road safety – A South African Issue

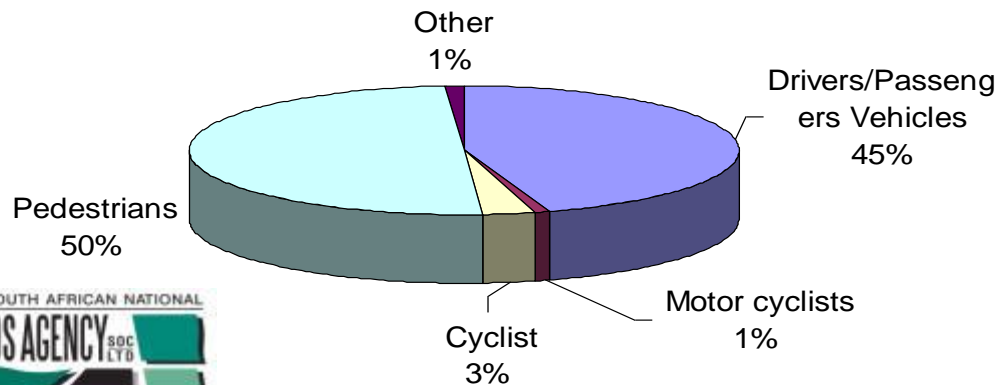
South Africa 2011/12

13 932 Fatalities (RTMC)

- Drivers: 3 763
- Passengers: 4 458
- **Pedestrians: 5 154**
- **Cyclists: 557**



SADC Region : +/- 63 000 Road Fatalities per year



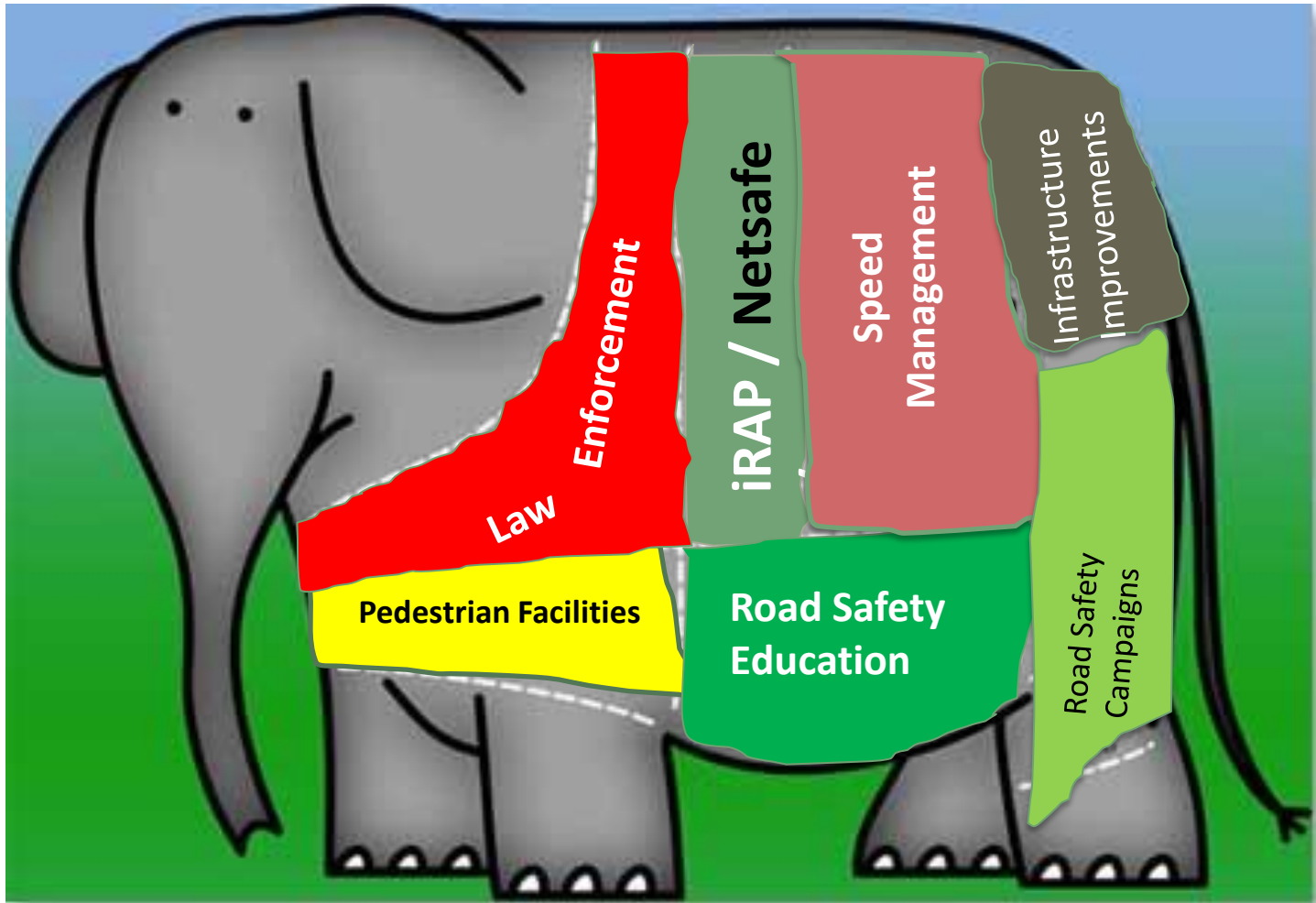
Question: How do you eat an elephant?

Answer: One bite at a time!



<http://www.reliefteaching.com/teaching-strategies-4/>

Bite size chunks



<http://familyonbikes.org/blog/2012/05/eating-an-elephant/>

Bite size chunks



<http://familyonbikes.org/blog/2012/05/eating-an-elephant/>

Some of SANRAL Road Safety Key Focus Areas / Experiences

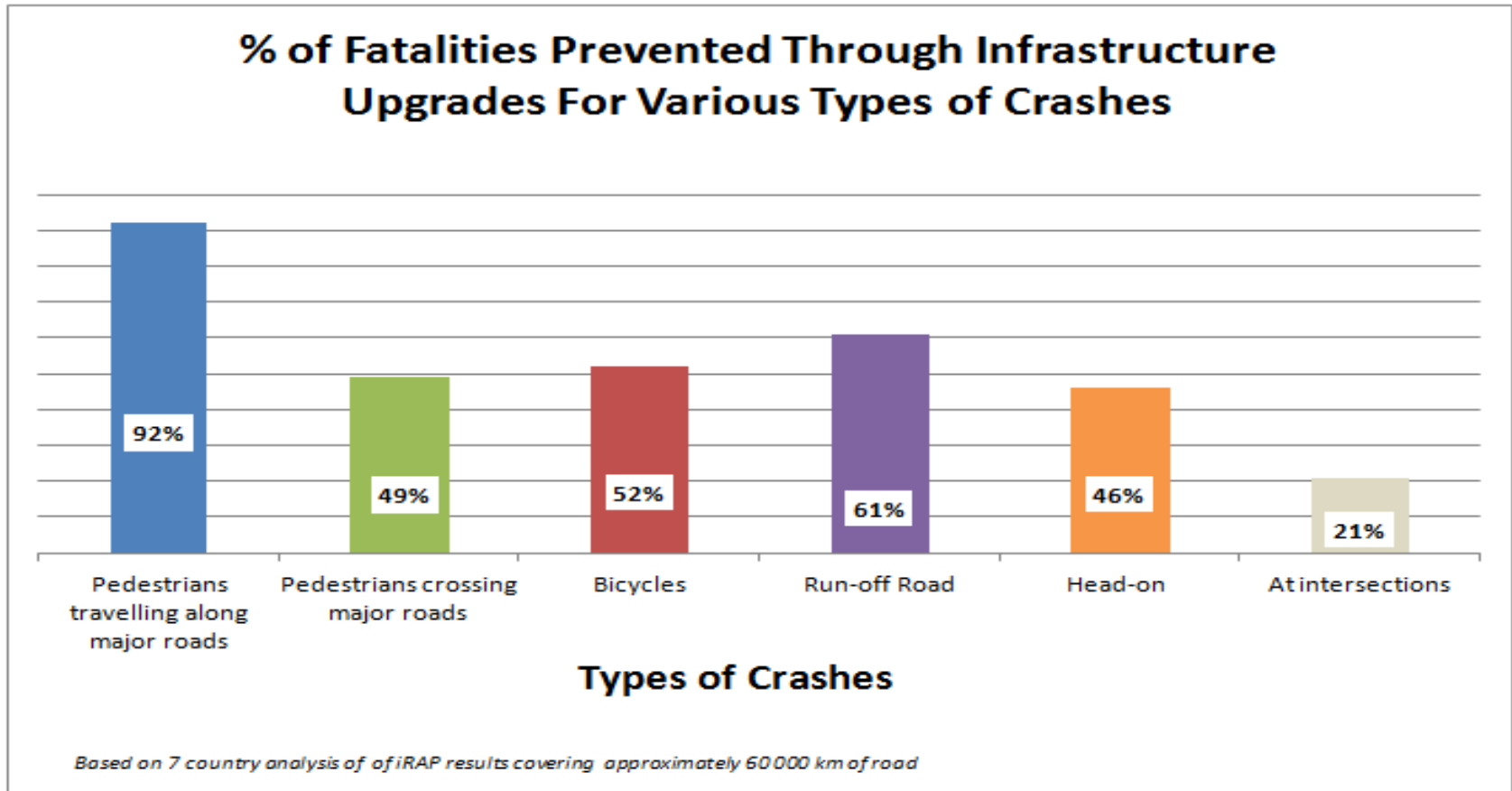
- **Pillar 2: Safer Roads and Mobility**
 - Engineering Priorities
 - Pedestrians
 - Vehicles
 - Hazardous Location Programmes
 - Network Assessment – Road Safety Risk
 - Training the Engineer
- **Pillar 4: Safer Road Users**
 - Technology: Average Speed over Distance
 - Road Safety Education and Awareness Programmes
 - Road Safety Communication Campaigns

Pillar 2: Safer Roads and Mobility

- Role of Infrastructure in Road Safety is proven
- UN Decade of Action Plan, places strong emphasis on the role that infrastructure can play in improving road safety
- Continue to invest in our national road asset
 - 2009/10 to 2013/14, SANRAL awarded **921 contracts** worth **R61.9 billion** for new works, rehabilitation and improvement, and various maintenance cycles
 - **2013/14**, SANRAL awarded **175 contracts** worth **R8.9 billion**



Pillar 2: Safer Roads and Mobility



Pillar 2: Safer Roads and Mobility

- **Engineering Priorities: Pedestrians**
 - Genuine need for pedestrians to cross or travel along major routes.
 - Vulnerable Road Users: Pedestrians
 - Poorest of the poor - Captive Road Users
 - Poor land use planning resulting in unsafe desire lines



Retrofit existing infrastructure

A Safer Place to Walk



Before



After



Retrofit existing infrastructure

A Safer Place to Cross



Pillar 2: Safer Roads and Mobility



Pillar 2: Safer Roads and Mobility



Or..... we can calm traffic



60



Pillar 2: Safer Roads and Mobility

- **Engineering Priorities: Intersections**
 - Are by nature conflict points
 - High Speeds or Reach Capacity
 - Upgrades
 - Intersection Control Type
 - Turning lanes
 - **Roundabouts**



Pillar 2: Safer Roads and Mobility

- **Engineering Priorities: Head-on Collisions**
 - Dual carriageways
 - Overtaking opportunity
 - Climbing lanes
 - 2 +1



Pillar 2: Safer Roads and Mobility

2+1 Lane Configuration



Pillar 2: Safer Roads and Mobility

- **Engineering Priorities :Single Vehicle Runoff Road Crashes**

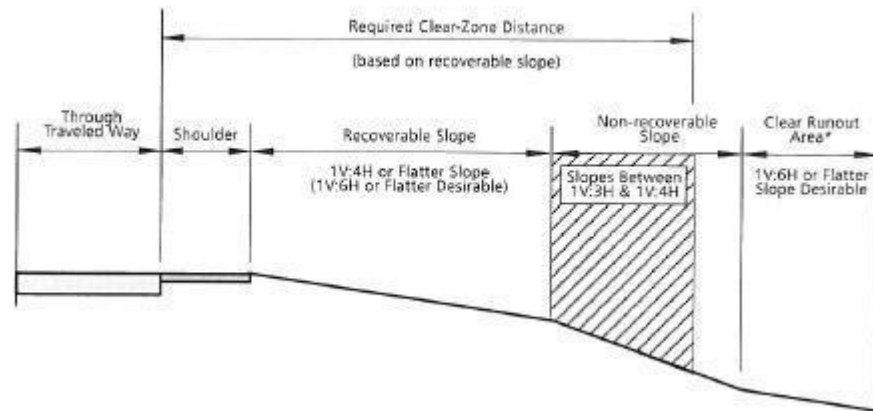
- Delineation

- Signs
- Road Marking

- Rumble Striping

- Shoulder
- Centre

- Recovery Zones



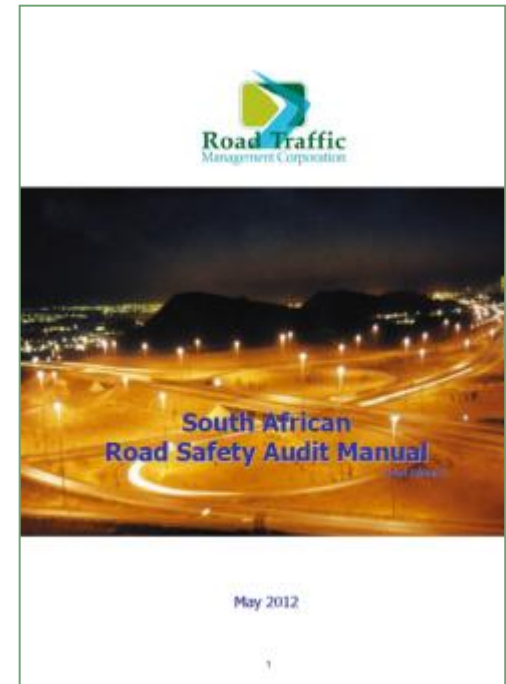
Pillar 2: Safer Roads and Mobility

- **Pedestrian Hazardous Location Programme**
 - In many instances these are known to us
 - These are “quick wins”
 - Remedial measures NOT ONLY infrastructure
 - Road User Behaviour needs to be influenced as well, Road Safety Education and Awareness
 - Covered under Pillar 4 Safer Road Users

Pillar 2: Safer Roads and Mobility

- **Road Safety Audits**

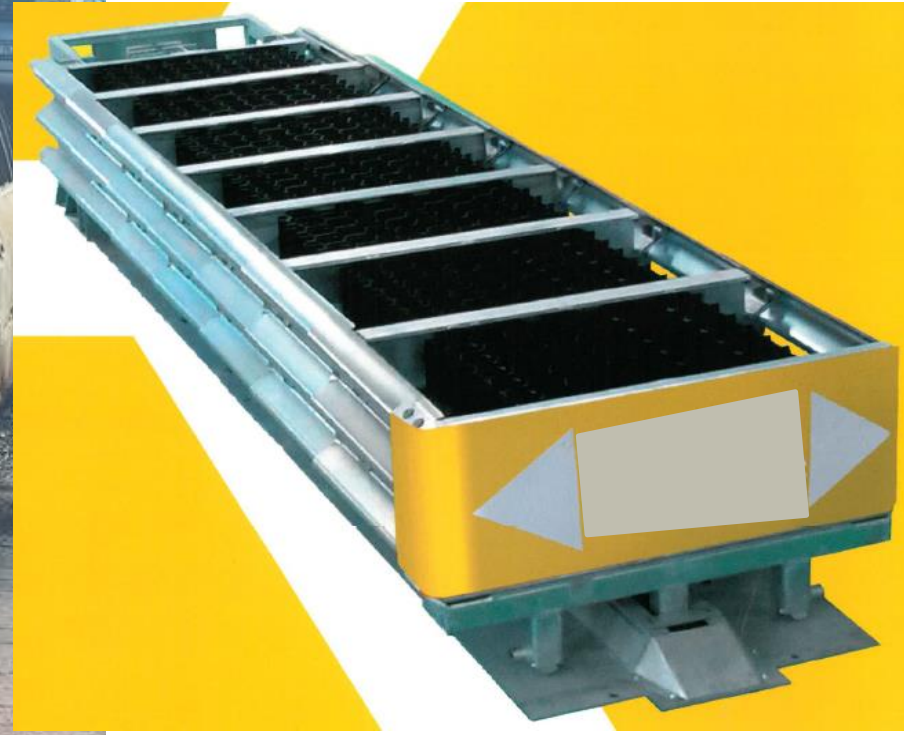
- Train those responsible for the delivery of infrastructure, Engineers and Designers
 - SANRAL and SARF Developed
 - Road Safety Audit Courses
 - Western Cape and Gauteng
 - Trained > 40 Design Engineers in 2014
 - 4 RSA Courses Planned for 2015
- Road Safety Audits are compulsory for all SANRAL major improvement or capacity projects





BALLUSTRADE END-BLOCK DETAIL





CRASH CUSHION

CHEK-iCOAST
SAVE A LIFE

Pillar 2: Safer Roads and Mobility

- **Safer Road Work Zones**

- Upgrading of Manuals

- COTO Contract Specifications
- SADC and SARTSM

- Working with SARF, SAFCEC, SABITA

- Providing Courses Road Safety in Work Zones



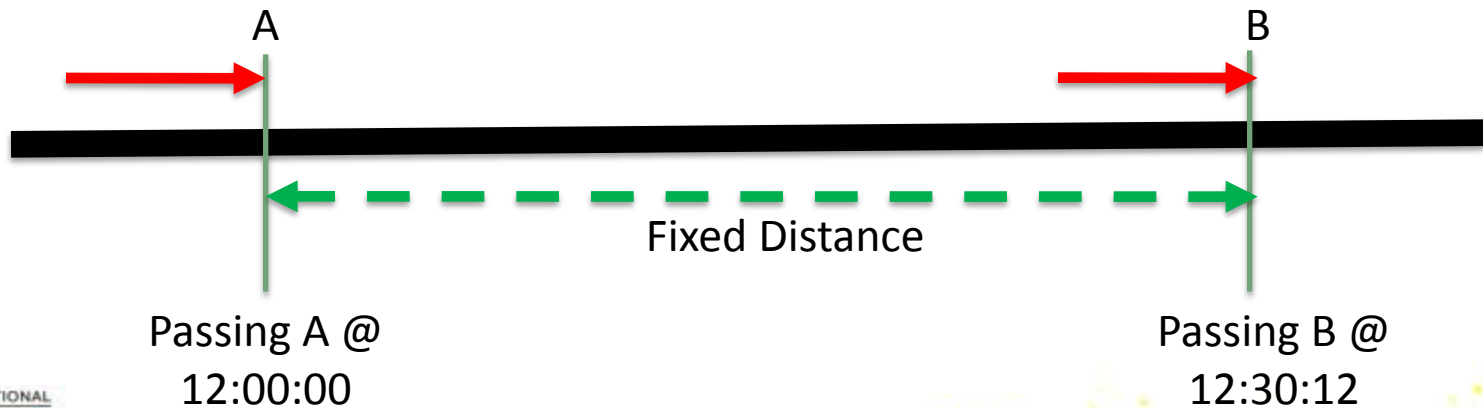
Pillar 4: Safer Roads Users

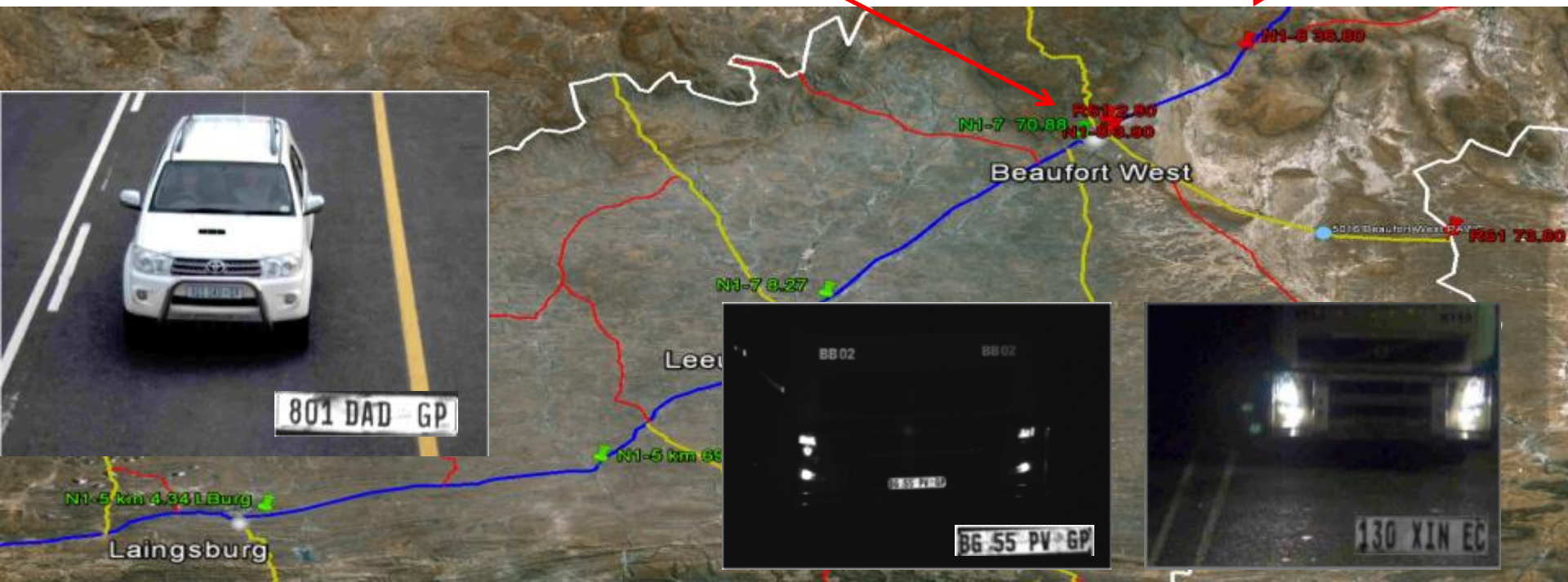
- **Speed Enforcement**

- (Collaboration with Law Enforcement)**

- Engineering Technology Working with Traffic Law Enforcement :

- Average Speed Over Distance (ASOD)





R61 Aberdeen: 2011 to 2015 Analysis:



Pillar 4: Safer Roads Users

- **Road Safety Education and Awareness**
 - Education on project level – hot spots & community development projects
 - All schools in a 5km radius of the national network

Y	Number of schools participated		Teachers receiving educational material Grade 1 - 9	Number of learners who received road safety education – Grade 1 - 9	Teachers receiving educational material Grade 10-12	Number of learners attending Grade 10 - 12
	Grade 1 – 9	Grade 10-12				
'12	403	-	1 995	192 034	-	
'13	385	61	3 110	200 261	282	54 948
'14	73	250	583	41 232	863	111 961
	861	311	5 688	433 527	1 145	166 909

ChekiCoast Colesberg Truckers Initiative –





Brake & Tyre Watch

A *FleetWatch* Initiative

Brake & Tyre Watch CAMPAIGN

Power of Partnerships



Sept 2011 JHB – Langlaagte
Inspected - 24
Discontinued - 18 **75%**



Feb 2012 Midway KZN
Inspected - 12
Discontinued - 11 **92%**



May 2012 Klerksdorp
Inspected - 16
Discontinued - 14 **88%**



Aug 2012 Tswane
Inspected - 25
Discontinued - 17 **68%**



Nov 2012 West Rand – Krugersdorp
Inspected - 13
Discontinued - 11 **85%**



Feb 2013 Port Shepstone
Inspected - 9
Discontinued - 6 **67%**



May 2013 Donkerhoek
Inspected - 19
Discontinued - 14 **74%**



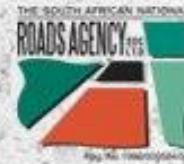
Nov 2013 Marian Hill – KZN
Inspected - 41
Discontinued - 29 **71%**

**CHEK-ICOAST (V) A UNIQUELY SOUTH
AFRICAN TERM MEANING "LOOK OUT!"**

CHEK-ICOAST

SAVE A LIFE

A SANRAL
INITIATIVE



Thank you for your attention

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