

Zero Road Deaths and Serious Injuries: Leading a Paradigm Shift to a Safe System.

Safe System Interventions

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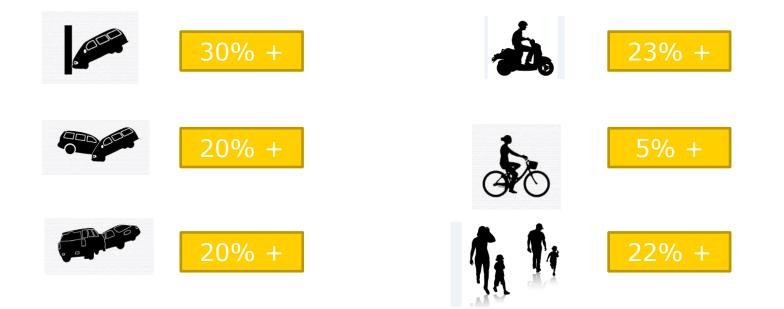




Primary Crash Types

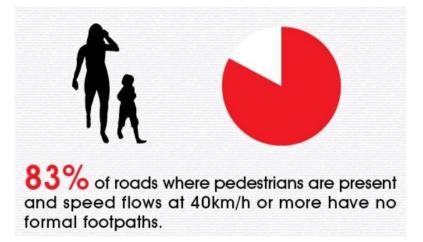
Motor Vehicles

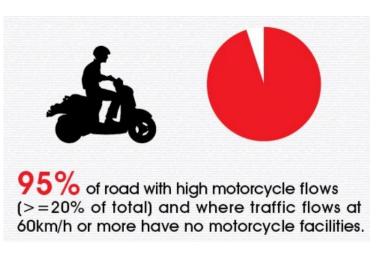
Vulnerable Road Users





A Safe System for Vulnerable Road Users







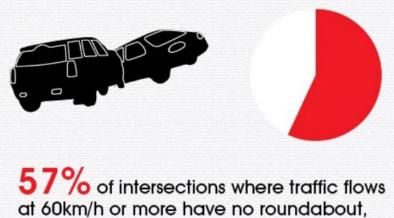


A Safe System for Vehicle Occupants

61% of roads where traffic flows at 80km/h or more are undivided single carriageways.



47% of curves where traffic flows at 80km/h or more have hazardous roadsides.



at 60km/h or more have no roundabou protected turn lane or interchange.

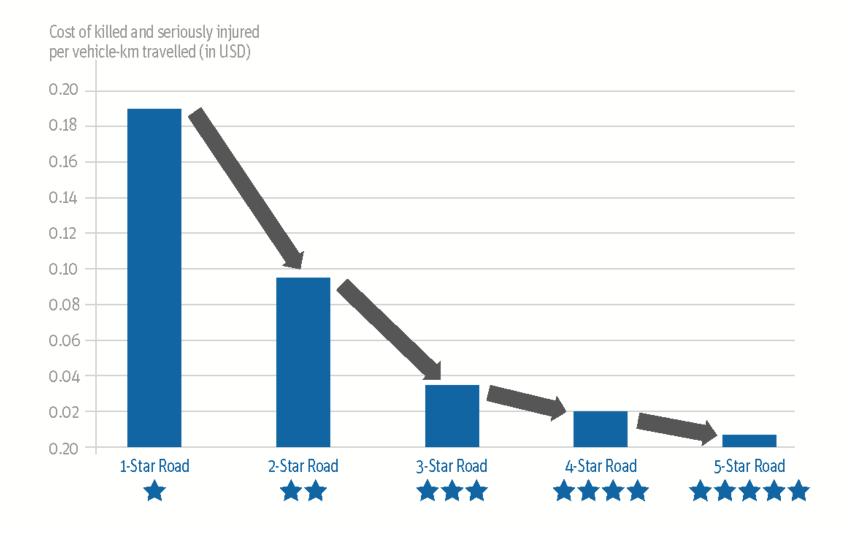


The Star Rating of Roads



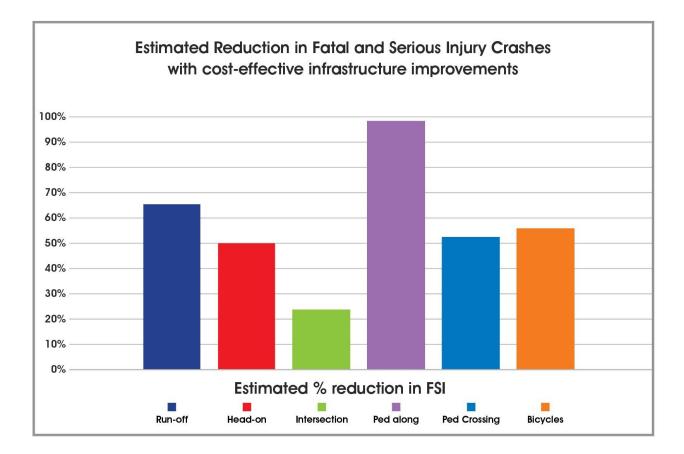








The Economics of the Safe System





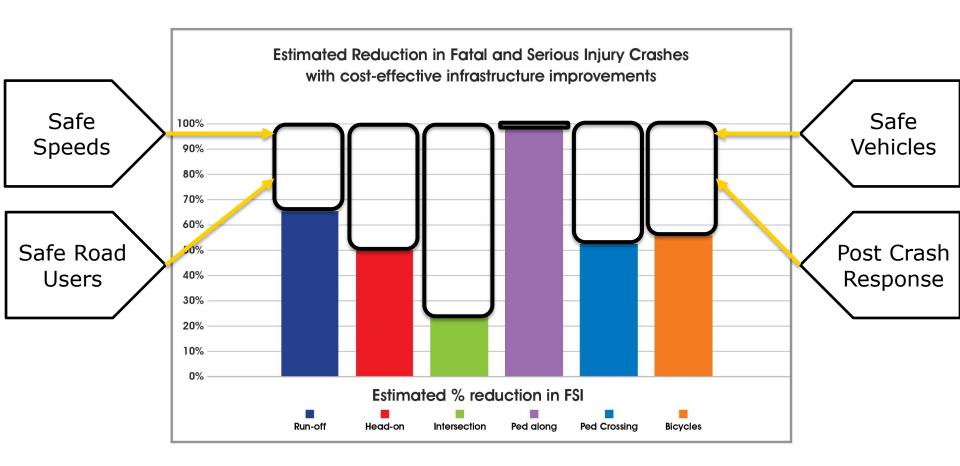
Business case for infrastructure interventions

| What could be achieved | Low-income countries | Lower- middle income countries | Upper- middle income countries | High-income countries | All |
|--|-------------------------|---|---|--------------------------|---------------|
| Improve 10% of highest risk roads | 108 000 km | 610 000 km | 992 000 km | 1 546 000 km | 3 255 000 km |
| Build viable countermeasures (USD) | 8 billion | 61 billion | 149 billion | 464 billion | 681 billion |
| Reduction in fatalities over 20 years | 384 000 | 1 483 000 | 1 528 000 | 283 000 | 3 678 000 |
| Reduction in fatalities and serious injuries over 20 years | 4 224 000 | 16 313 000 | 16 808 000 | 3 113 000 | 40 458 000 |
| Economic benefit over 20 years (USD) | 83 billion | 663 billion | 2 766 billion | 2 202 billion | 5 715 billion |
| Benefit cost ratio | 11 | 11 | 19 | 5 | 8 |

Source: iRAP (2014): Business Case for Safer Roads.

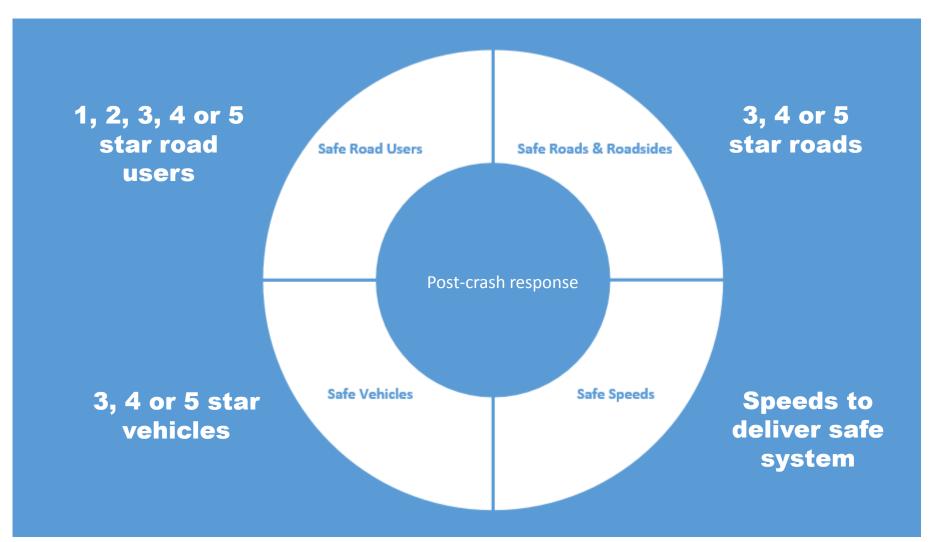


The Economics of the Safe System





Safe System Optimisation





Safe System Financing for the Future



FIA FOUNDATION

| SERIOUS INJURY OUTCOMES | Reduction in incidence | Savings |
|-------------------------|---------------------------|------------------|
| Severe Brain Injury | 70 | \$ 13,003,462 |
| Head Injury | 37 | \$ 6,872,000 |
| Quadriplegia | 33 | \$ 6,092,458 |
| Paraplegia | 14 | \$ 2,578,686 |

- Safe System Corridor Project
- Footpaths for Africa Development Impact Bond
- PPP to deliver 5-star roads and Smart Motorways



Merci, Thank you

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