Safer Road Infrastructure & Speed Control

Brendan Halleman
International Road Federation
The UN Decade of Action For Road Safety:

Road Safety Management
Safer Roads & Mobility
Safer Vehicles
Safer Road Users
Post-Crash Response
Safer Speed
Building Industry Partnerships

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The UN Decade of Action For Road Safety:

Global Plan
for the Decade of Action
for Road Safety 2011-2020

Road Safety Management
Safer Roads & Mobility
Safer Vehicles
Safer Road Users
Post-Crash Response
Safer Speed
Safe System, Safe Roads

recognizes that road users will remain fallible and crashes will occur

stresses that those involved in the design of the road transport system need to share responsibility for the safety of the system

aligns safety management decisions with broader transport and planning decisions.

shapes interventions to meet the long term goal.
Safe System, Safe Roads
Forgiving Roads

5 years prior
- 6 fatal head-on crashes
- 3 injury head-on crashes

4 years after
- No fatal head-on crashes
- No injury head-on crashes
Forgiving Roads

- Pedestrian Refuge Areas
- Pedestrian Walkways
- Protected Bicycle Lanes
Self Explaining Roads
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75% road signs, traffic signals in Delhi are faulty: study

Nearly 75% of road signs, traffic signals and road markings in Delhi are not up to the mark and lead to millions of traffic violations without road users being at fault, says a study.

Mayank Aggarwal

Most traffic signals at intersections in Delhi were not functioning as per the prescribed standards or are wrongly installed, said the study. Photo: Mint
Self Explaining Roads
Resources exist....
Resources exist....
Safety can be mainstreamed

“The client will take into consideration relevant EU road and traffic safety management standards, identify road safety measures and incorporate technically and economically feasible and cost-effective road safety components into the project design to mitigate potential road safety impacts on the local affected communities. Where appropriate, the client will undertake a road safety audit for each phase of the project and routinely monitor incident and accident reports to identify and resolve problems or negative safety trends. (...).
Safety Investment Decisions

Road Safety Impact Assessments
Design-stage RSAs

1. Planning & Design
2. Construction & Pre-opening
3. Normal Operation
4. Maintenance & Renewal
5. Error correction, Hazard elimination
6. Major upgrading & Renewal

Road Safety Audits

Pre-opening Stage RSAs

Black Spot Programs

Road Safety Inspections
Network Safety Management
iRAP survey
Safety Investment Decisions: Portugal
Safety Investment Decisions: Canada
Safety Investment Decisions: Croatia

- Average age of technically correct signs: **6.34 years**
- Average age of technically defective signs: **11.54 years**
Closing thoughts

• Make an economic case for road safety investments
• Use your road asset management systems to guide period safety improvement needs
• Set high standards for the professionals involved in designing and auditing your roads
• Leverage technological enablers.
Available Resources

- Road Infrastructure Safety Management, ITF/OECD
- Highway Safety Manual, AASHTO
- Road Safety Manual, PIARC
- Road Safety Manuals for Africa, AfDB
- Road Safety Toolkit, iRAP
- Crash Modification Clearinghouse
- Best Practices for Effective Road Infrastructure Safety Investments, CEDR
- Reducing Deaths in SVCs, ETSC
The UN Decade of Action For Road Safety:

- Road Safety Management
- Safer Roads & Mobility
- Safer Vehicles
- Safer Road Users
- Post-Crash Response
- Safer Speed