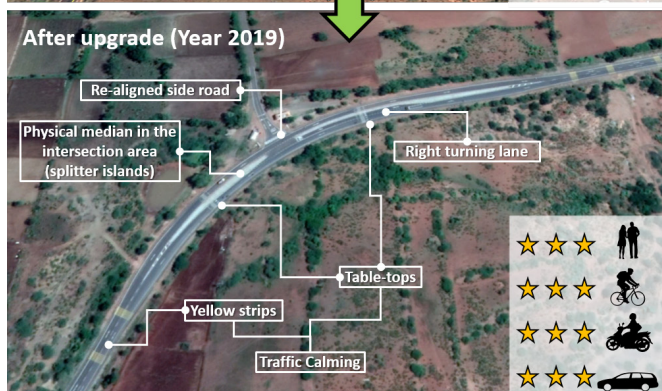
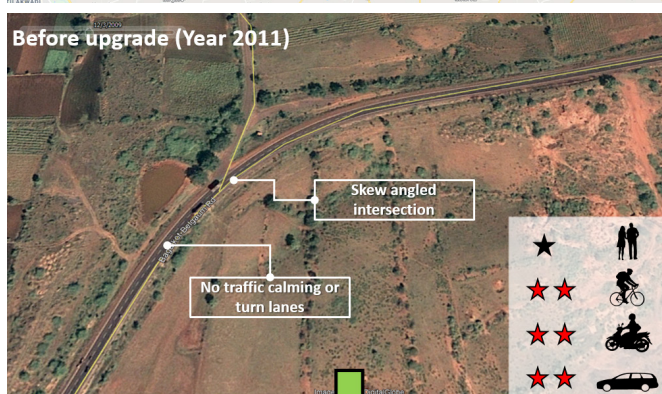
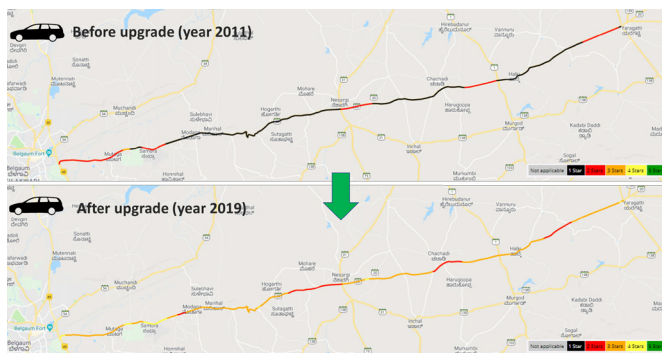


Case studies of implementation: Saving lives through safer roads

IndiaRAP is using the star ratings methodology to track performance of road safety improvement. The following are 3 recent high profile examples.

SH-20 Belgaum – Yaragatti, Karnataka

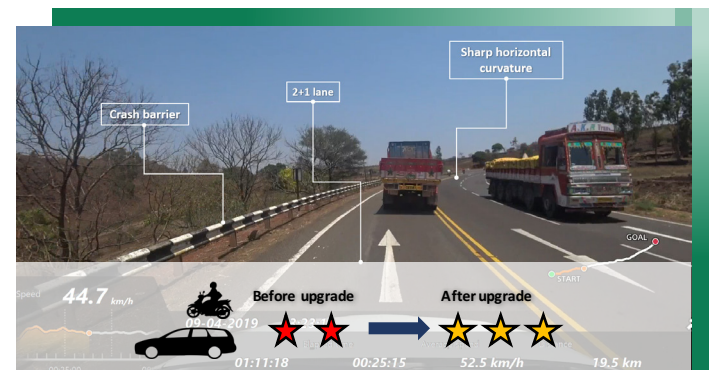
The Belgaum–Yaragatti (SH-20) corridor in Karnataka (56.4km long) is part of the World Bank funded Second Karnataka State Highway Improvement Project (KSHIP-II).



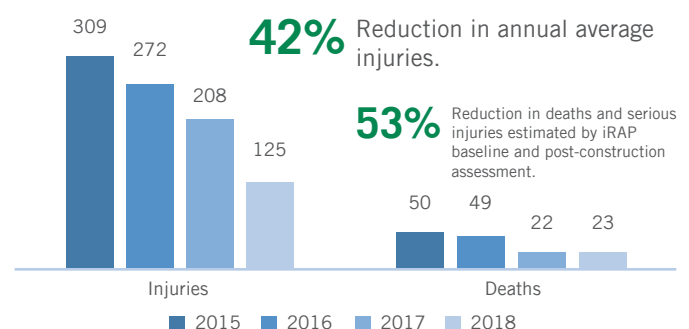
Being road safety demonstration corridor, a target of achieving at least 3-stars was set. Several iterations of road designs were star-rated to achieve desired safety outcome. In addition to the road engineering measures, enhanced police enforcement and improved post-crash medical response initiatives were implemented.

Key road safety features implemented:

- Improved road markings and signs
- Intersection improvement
- Raised pedestrian crossings
- 2+1 lanes in ghat/hill road section
- Speed calming measures.

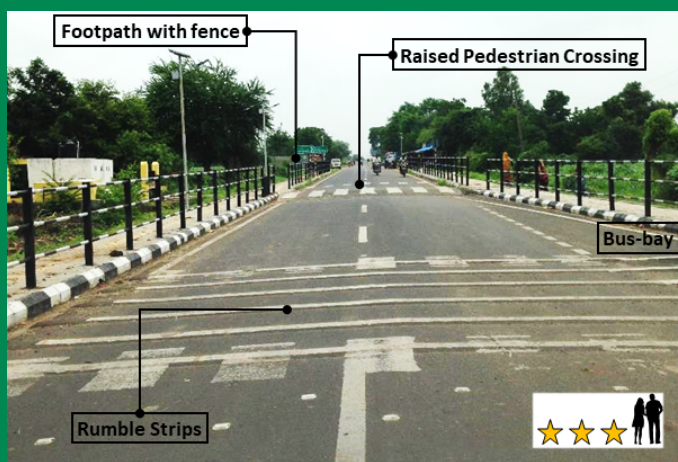
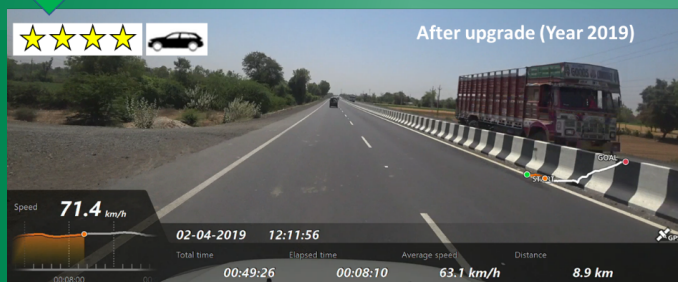


54% Reduction in annual average deaths after road improvement.

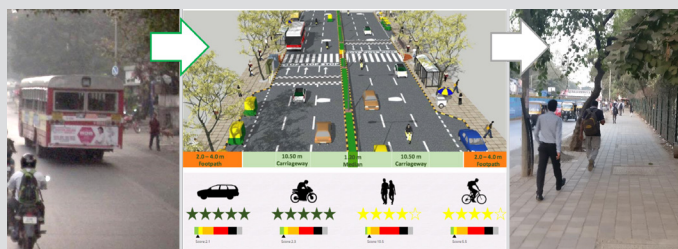


SH-55 Mehsana – Himmatnagar, Gujarat

The Mehsana-Himmatnagar state highway in Gujarat has been developed from single carriageway to dual carriageway as part of the World Bank funded Gujarat State Highway Project-II (GSHP-II). The road construction on this 59km long highway began in February 2017 and finished in August 2018.



Dhansura – Meghraj Highway, Gujarat



LBS Marg, Mumbai

Key road safety features implemented:

- Upgrade from 2-lane to 4-lanes with provision of a concrete median barrier separating opposing traffic flows.
- Provision of paved shoulders on some sections.
- Improved road markings, traffic signs and intersections.
- Streetlights, pedestrian markings and bus bays in the urban areas and major intersections in rural areas.

After road upgrade:

- Most of the road length lifted to 3-star or better for vehicle occupants and motorcyclists.
- Urban areas where pedestrian and bicyclists present achieves 3-star or better.



Safer Road Design being implemented in Mumbai

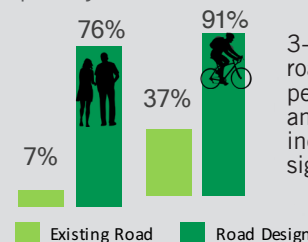
The 10km stretch of LBS Marg in Eastern suburbs of Mumbai has been developed as a safety demonstration corridor under the BIGRS (Bloomberg Initiative for Global Road Safety). This road was star rated as part of more than 200km of urban roads in Mumbai.

Incredibly, around 13 people were being killed on this road each year. The majority of people killed are pedestrians, motorcyclists or those in auto-rickshaws.

The iRAP assessments showed that, for example, very little of the road had formal sidewalks or effective pedestrian crossings, despite the fact that pedestrian flows were very high.

Following a series of iterations of design, prepared by WRI, to ensure that it really fits the local context, the final design included:

- Wide sidewalks and pedestrian crossings with traffic calming.
- Adjustments to car parking, bus stops, and intersections to especially make better use of “dead space” for pedestrians.



50%
Estimated reduction in annual deaths and serious injuries.

Proudly hosted by: **AITD** Special Consultative Status with the United Nations

Sponsored by **FedEx**

IndiaRAP
INDIAN ROAD ASSESSMENT PROGRAMME

FIA FOUNDATION

Asia Institute of Transport Development (AITD)
Asia Bhawan, Road No. 205, Sector-9, Dwarka
New Delhi-110077
Phone: +91-98115 43317, +91-11-28080177 india@irap.org

GRSF
Global Road Safety Facility

Bloomberg Philanthropies

The case studies presented were performed with the support of the GRSF and Bloomberg Philanthropies.

iRAP

The International Road Assessment Programme is a charity with a vision for a world free of high-risk roads. iRAP partners with mobility clubs, governments, funding agencies, research institutes and other non-government organisations in more than 100 countries to provide the tools and training to make roads safe.

Registered Charity Number: 1140357 **Registered Office:** 60 Trafalgar Square, London, WC2N 5DS, United Kingdom

Produced March 2020