Vision Zero and 5-Star Roads

Partnerships to Save LIVES



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Vision Zero and 5-Star Roads



How people die

The Role of Infrastructure

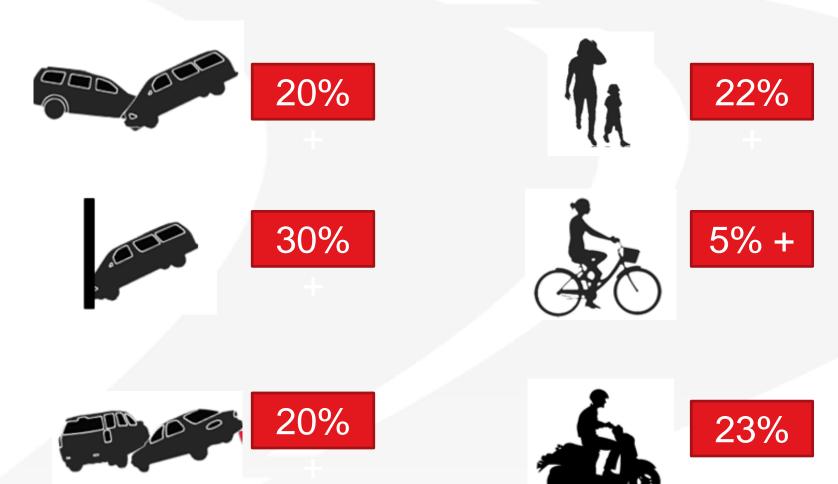


Global Partnerships to Save LIVES

Global Case Studies

The business case for scale

Predictable Death & Injury



Solutions exist for all crash types



Pedestrians

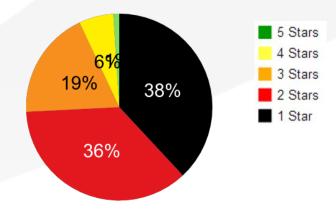


83%

of roads where pedestrians are present and speeds are 40km/h or more have no footpath



Pedestrians



Based on a 250,000km sample of iRAP assessments from 60 countries

Head-on Crashes



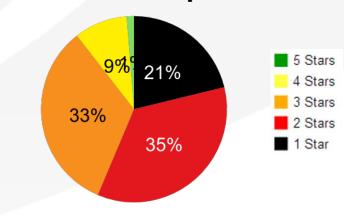




of roads where vehicles travel at 80km/h or more are undivided single carriageways



Vehicle Occupants

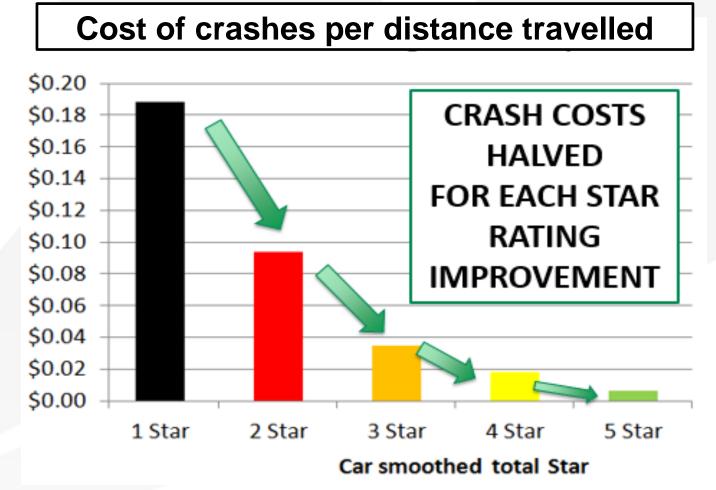


Based on a 250,000km sample of iRAP assessments from 60 countries

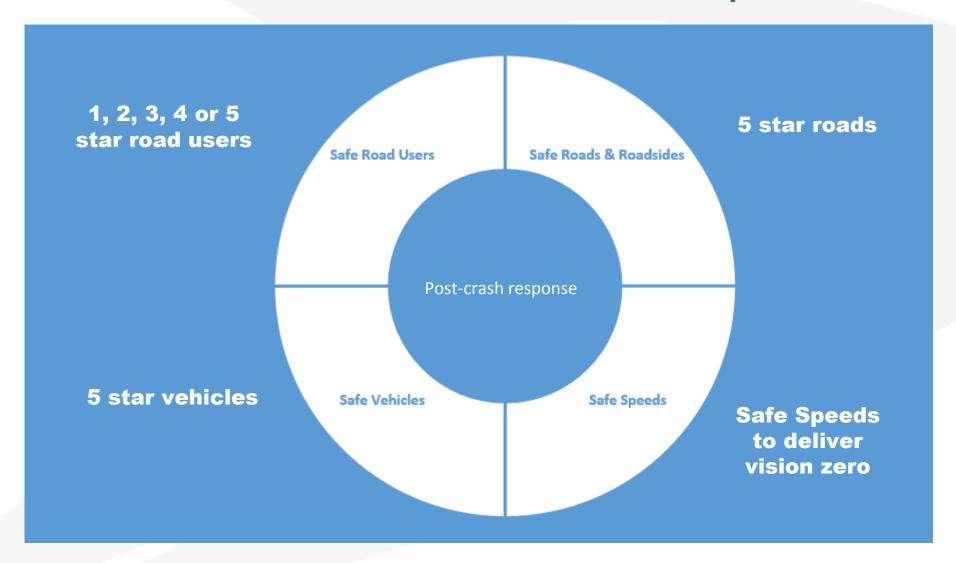
Star Ratings & Saving Lives







Vision Zero Leadership



Safe Speeds and Road Design

#SlowDown more on low-standard urban roads to be #3StarOrBetter for pedestrians*

When footpaths are ineffective or non-existent and crossings are absent or do not effectively slow traffic the risk to pedestrians is hard to manage. Speeds must be 40 km/h or less to provide a 3-star or better experience for pedestrians.



https://www.unroadsafetyweek.org/en/solutions/safe-roads



The Origins and Evolution of iRAP



Global Inspiration

Existing Roads



New Zealand: Target for 4-star roads of national significance, Safety Alliance to upgrade existing roads to 3-star or better standards.



United Kingdom: 90% of travel on 3-star or better roads by 2020, and related targets for 4 and 5-star motorways



USA: FHWA supported roll-out of usRAP. Statewide assessments in Utah, Alabama. County investments prioritised. Integrated data management (UPLAN).



Malaysia: 75% of travel on 3-star or better high volume roads by 2020 (Malaysia MoT)



Sweden: 75% of network at 3-star or better by 2020 and near 100% by 2025



Chile: Autopista Centrale toll roads assessed and immediately upgraded to minimum 3 -star standard



Netherlands: No 1 or 2-star roads by 2020



3-star or better upgrades UK Local Roads

£ 175
million for local roads

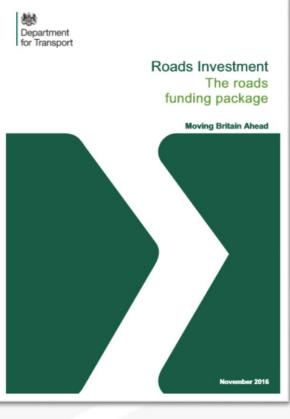
Target

50

persistently highrisk local roads

Invest to

3-star













upgraded roads saving lives ChinaRAP

State Council endorsed Highway Safety to **Cherish Life initiative**

Large scale road upgrades: 30,000km of high-risk roads already, additional 65,000km by end 2017

Star rating & investment plans: 150,000km existing roads, 12 provinces

5-year investment of CNY12 billion (US\$1.8 billion) in safety countermeasures

Production of national guidelines for safety countermeasures and design standards.

Design training of 2000+ engineers in 12 provinces. Mobilisation and training of 100+ people in road surveys and 300 people in road attribute coding. ChinaRAP **Population:**

1.38 billion

Annual road deaths: 261,367

Already saving 10.000* deaths & injuries every year

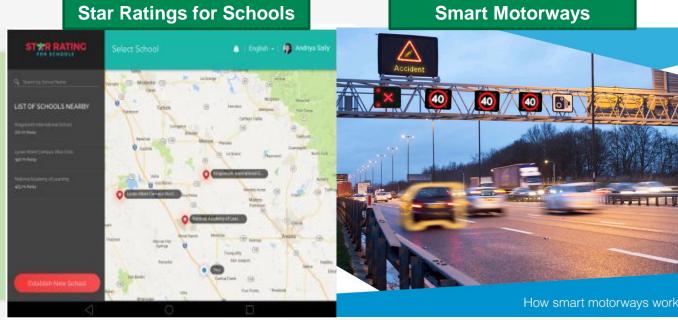


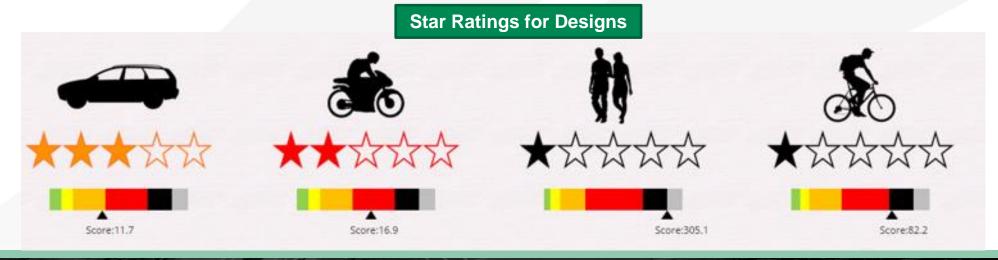




Global Innovation

Bicycle SRS Smoothed Star Castivium Purmerous Beveranik Limisdol Laaridan Westpoort Froaden Amsterdam Hestricted Leiden Voorbestelm Augustelvente ween Leiden Voorbestelm Alphennan Geellijn Seproek Zoetermeer Colling Compositi





If we were all as good as Sweden!

1,009,778

Lives saved every year

US\$ 1,615 billion

Economic benefits every year

2.1%

of global GDP

iRAP Analysis completed for Economist Magazine

Just the tip of the Vision Zero iceberg

Fatal **Amputations** Quadriplegia Paraplegia Severe Brain Injury Burns Degloving Loss of Sight / Eyes **Dislocations** Fractures

3,500+ killed every day

100,00+ injured every day

US\$ 2 trillion

of crash costs per year

Further Details





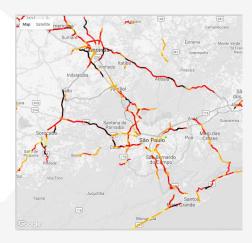
For the first time. The SIOS & burget the United Micros Is to holve road that included road deaths and injuries leaded and liquides by 2020. It is suitainable. Development forces

But we need to ACT NOW!

iRAP



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iRAP is supported by...





