Evidenced-Based Interventions to Improve and Sustain Safer Mobility for All Users in Africa

NATHALIE CHIAVASSA – INTERNATIONAL ROAD ASSESSMENT PROGRAMME

About iRAP

- Charity for a world free of high-risk roads
- Global standard and partnerships for safer road infrastructure
- Evidence based solutions, tools, training, communications and advocacy to support large-scale action

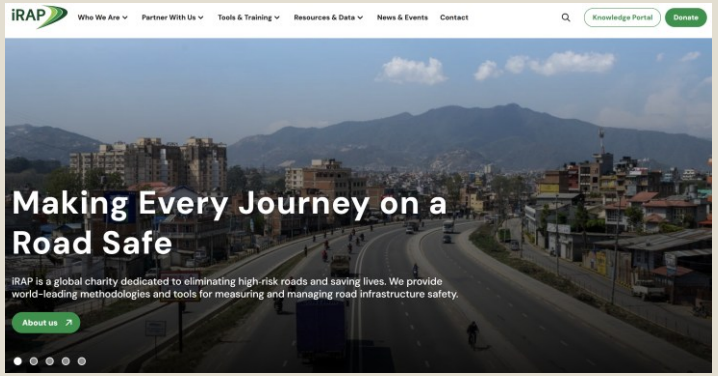
https://irap.org/2021/11/irap-releases-plan-for-2nd-decade-of-action/

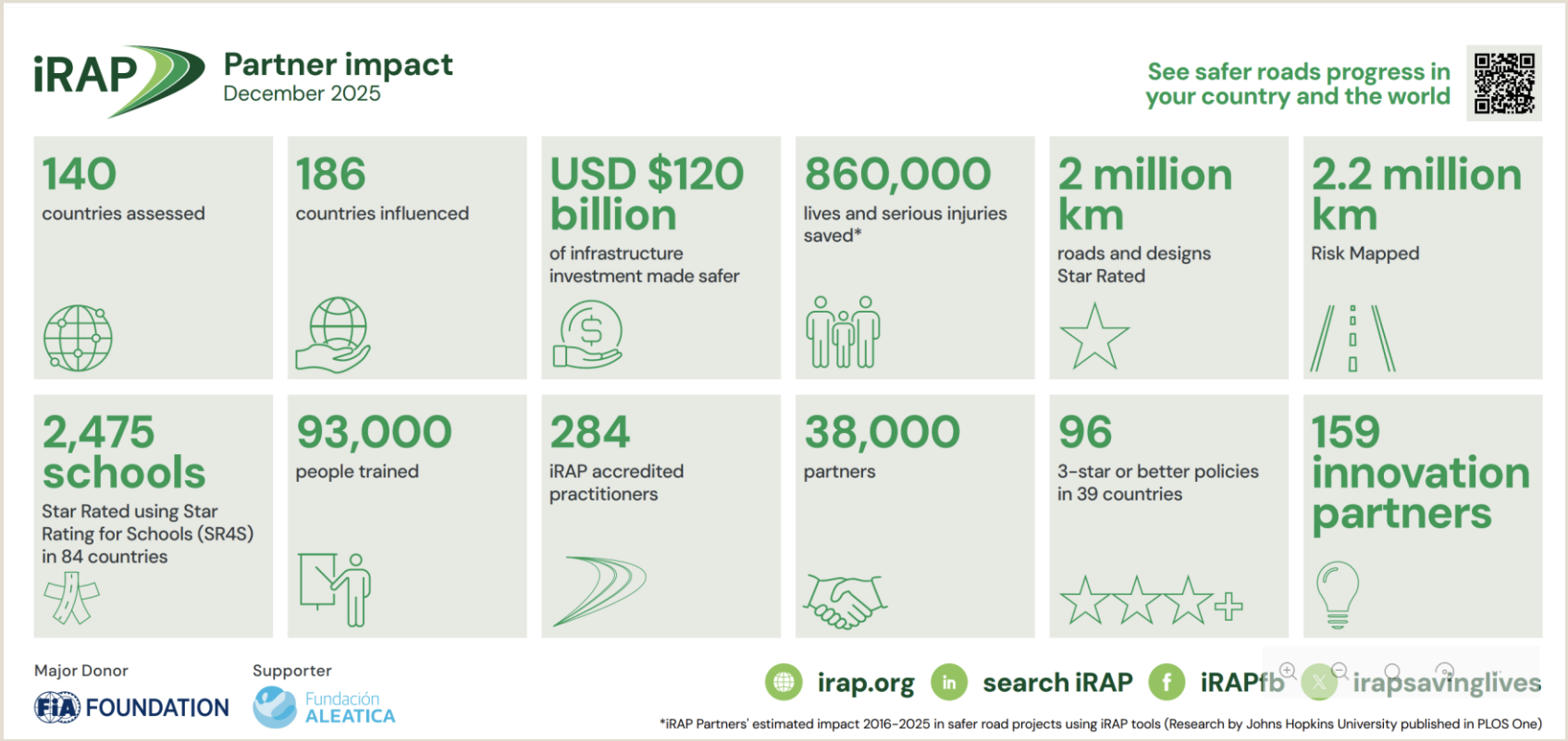
About iRAP

MyRAP NigeriaRAP PakRAP SARAP

SnRAP TanRAP ThaiRAP

UNITED KINGDOM RAP usRAP AusRAP



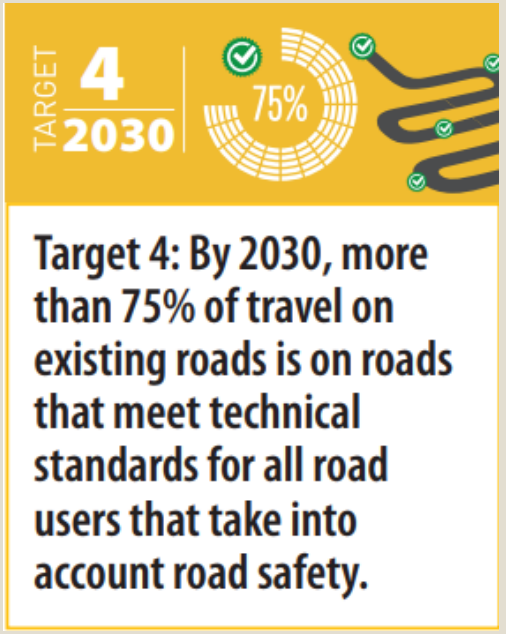


UN Global Road Safety Performance Targets

Following the request of the United Nations General Assembly, on November 22, 2017 Member States reached consensus on 12 global road safety performance targets. For more information: http://www.who.int/violence_injury_prevention/road_traffic/road-safety-targets/en/

ALL <u>new</u> **roads**

3-Star or Better



>75% of travel on <u>**existing**</u> roads 3-Star or Better

How iRAP works

Risk Assessments

Using iRAP software, including ViDA, risk assessments can be performed for every type of road. The best-known assessments are Star Ratings, which measure the built-in safety of roads and paths for vehicle occupants, motorcyclists, cyclists, and pedestrians, using internationally recognised Star Ratings where 0-star ratings indicate less safe roads, while 5-star roads are the safest.

Connect to Tools

Policy, Capacity Building and Innovation

iRAP supports governments and organisations to embed safe system principles into policies, standards, and projects, and we build local capacity to sustain long-term safety improvements. We also enable innovation with AI, data, digital tools, and rapid risk screening approaches.

Connect to Training and Accreditation

Safer Roads Investment Planning

With ViDA, users can identify and prioritise high-impact safety upgrades – such as safer intersections, median barriers, speed management, and pedestrian facilities – helping partners achieve the greatest reduction in deaths and serious injuries for every dollar invested.

Connect to ViDA

iRAP Global Standard – The four main ways we work

Star Ratings

Safer Roads Investment Plans

Identifying and costing improvement to focus intervention on improving star rating

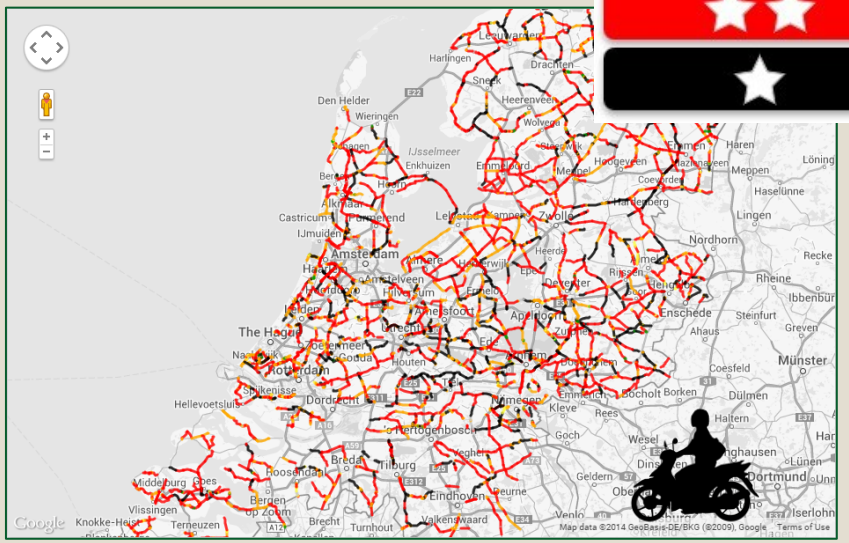
Crash-rate risk maps

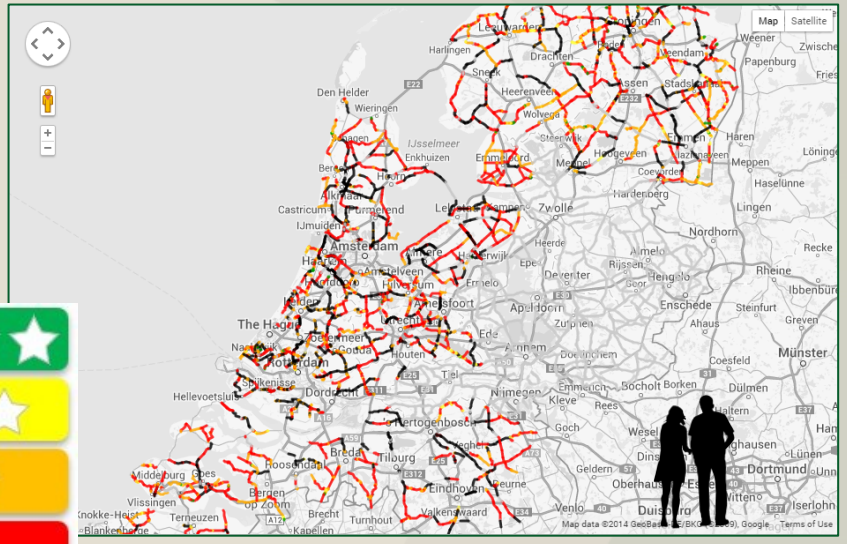
Using actual crash data with road infrastructure assessment to measure risk.

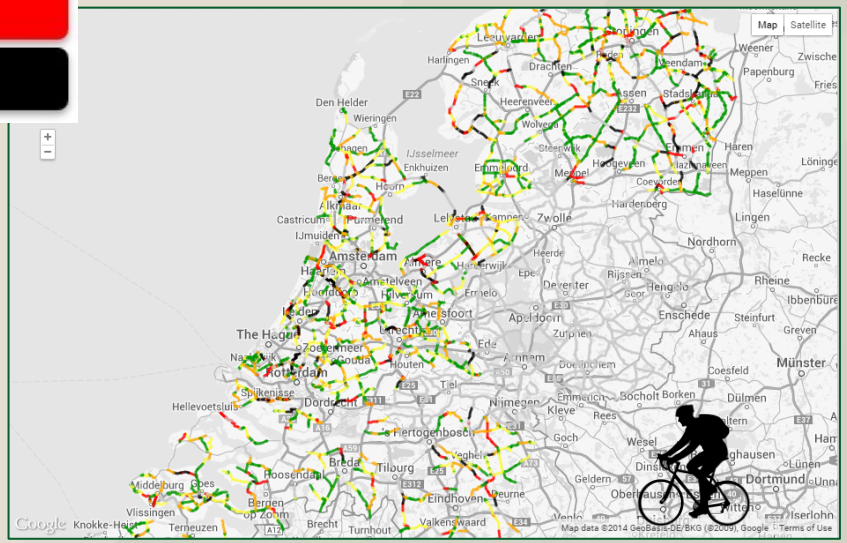
Performance tracking

Did it deliver the expected results?

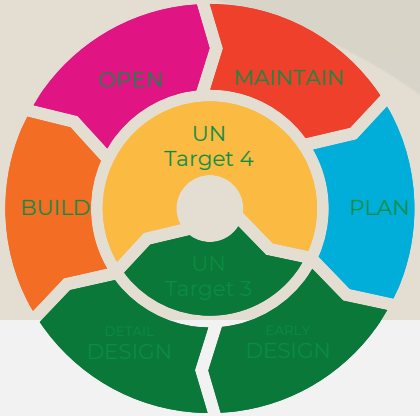
Road user specific maps







RAP Star Rating Process



Source data | Attribute data | ViDA http://vida.irap.org/ | Route Review Tool

Source data

Attribute generation

Deep Learning | Machine learning | Neural networks

Road Survey

Road coding

Processing

Star Ratings

FSI estimation

Safer Roads Investment plan

User Defined Investment Plan

RAP Star Rating Process

Source data	Attribute data	ViDA http://vida.irap.org/	Route Review Tool

Source data

Attribute generation

Deep Learning Machine learning Neural networks

Road Survey

Road coding

POLE ROCK CLIFF ROCKFACE DITCH SLOPE ROLL NO ROLL

Processing

Star Ratings

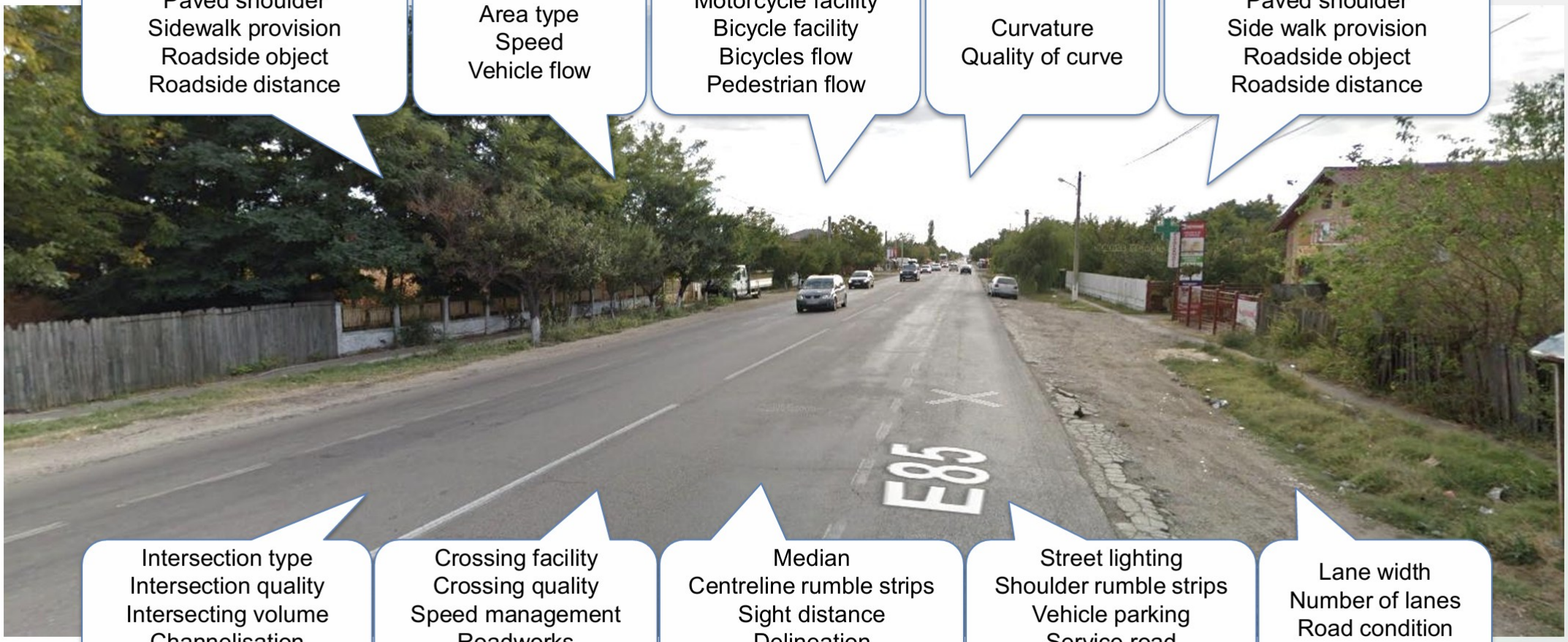
FSI estimation

Safer Roads Investment plan

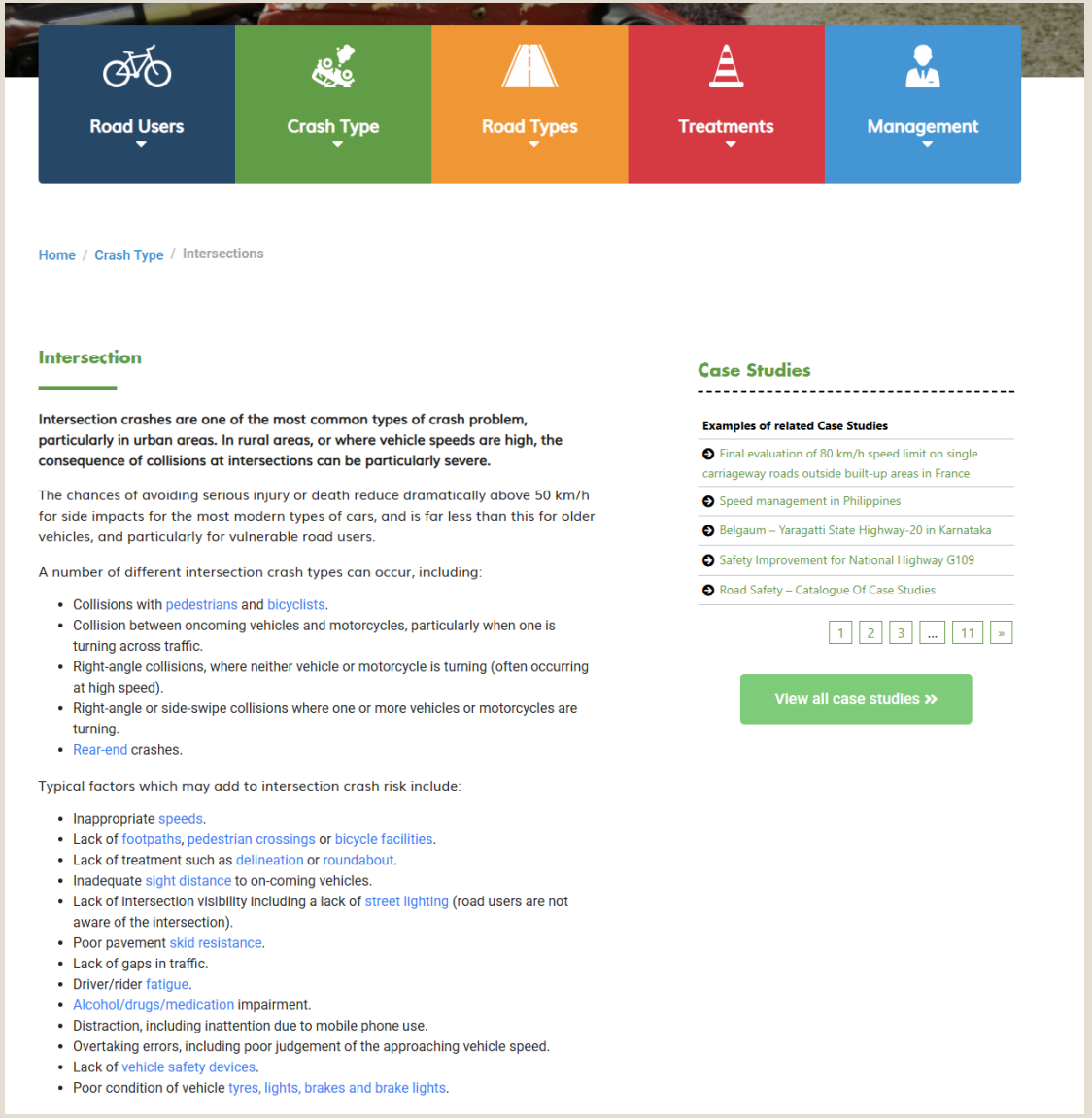
User Defined Investment Plan

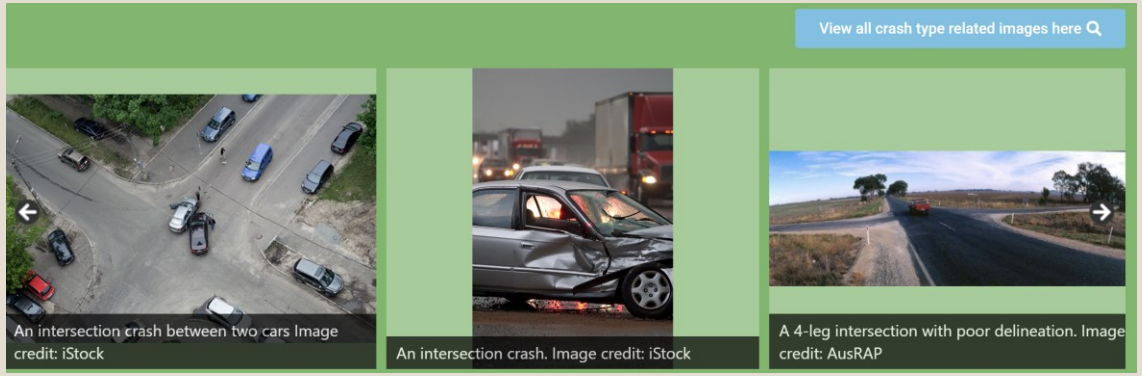
Road Design

ATTRIBUTES RECORDED (OR CODED) FOR EACH 100M OF ROAD OR DESIGN

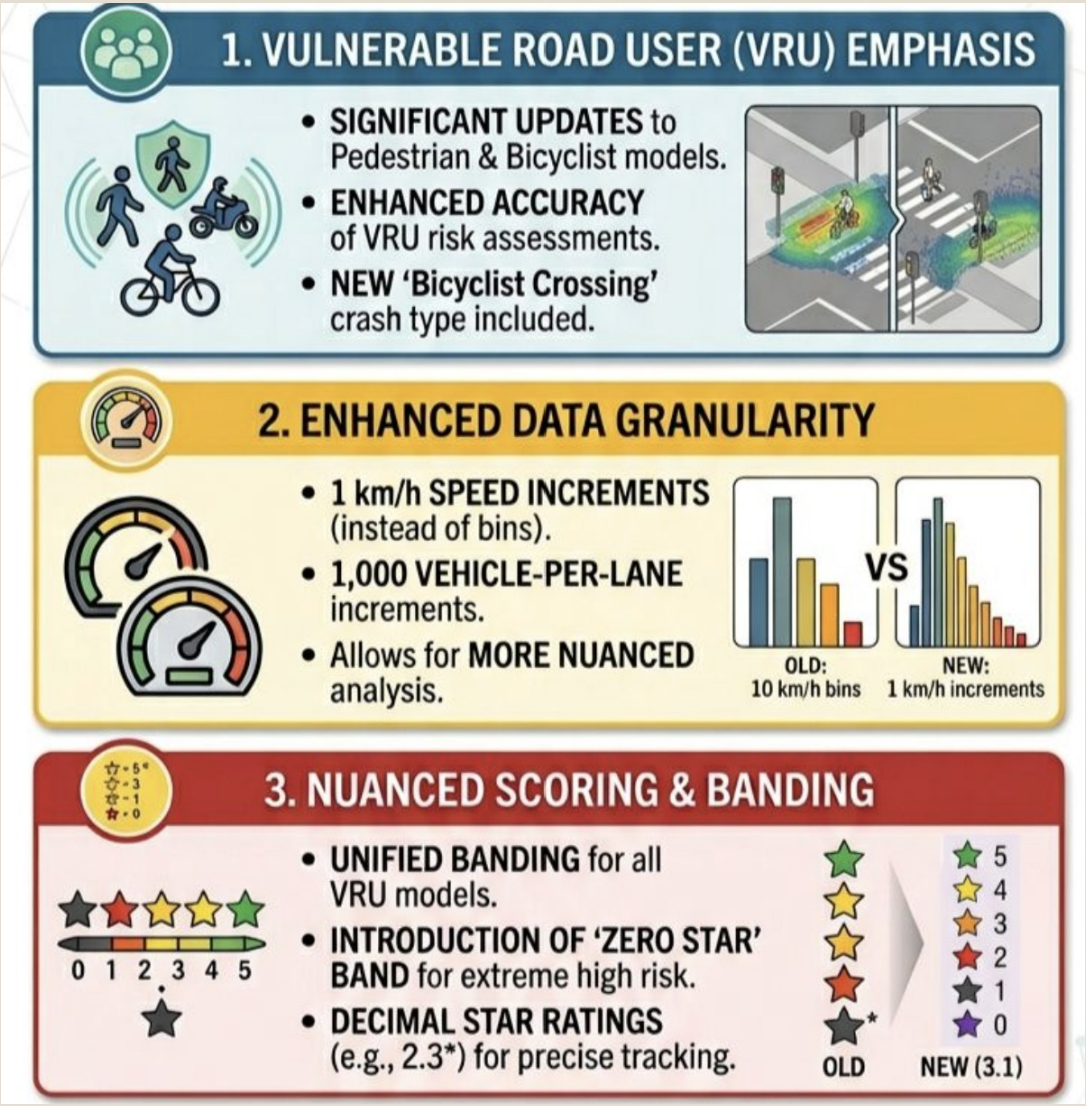


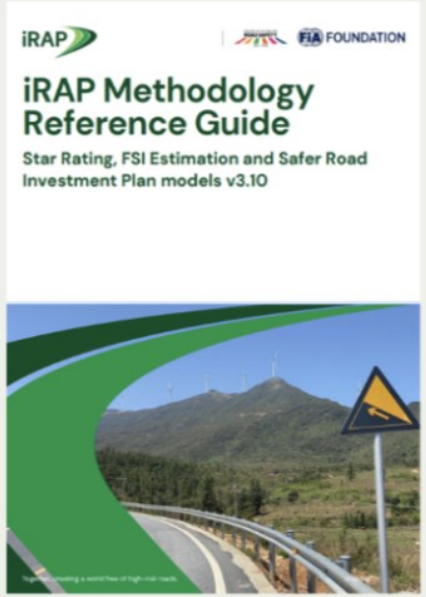
Want to know more?





New version of VIDA 3.10





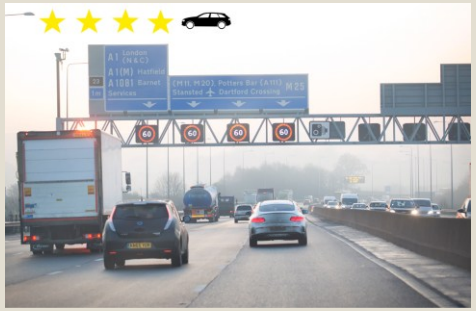
The iRAP Methodology Reference Guide (Version 3.10) is now the primary source of methodology information.

It will replace the standalone Methodology Fact Sheets.

Link to the webinar: https://youtu.be/Y_IhzJoYyI0?si=Pkv8qeCA-VJLgSP-

Examples of Road upgrades

saving lives and serious injuries every day



CASE STUDY: UK

Great Britain

CASE STUDY
RAP PARTNERSHIPS SAVING LIVES
Great Britain

EuroRAP

ROAD SAFETY FOUNDATION

Collaboration led by RSF with Highways England, Ageas & DfT

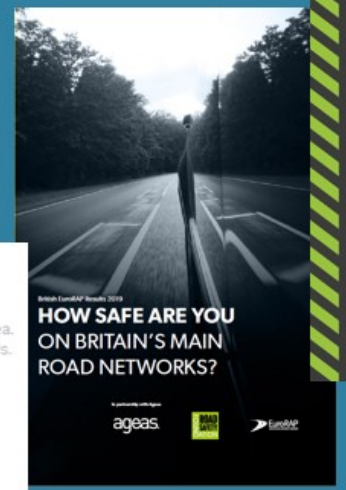
2020 target: 90% of travel on strategic road network 3-star or better

£175 million fund for 50 highest risk local authority A roads

690,000km Risk Mapped cumulatively in annual assessments

Annual publication of Risk Mapping results

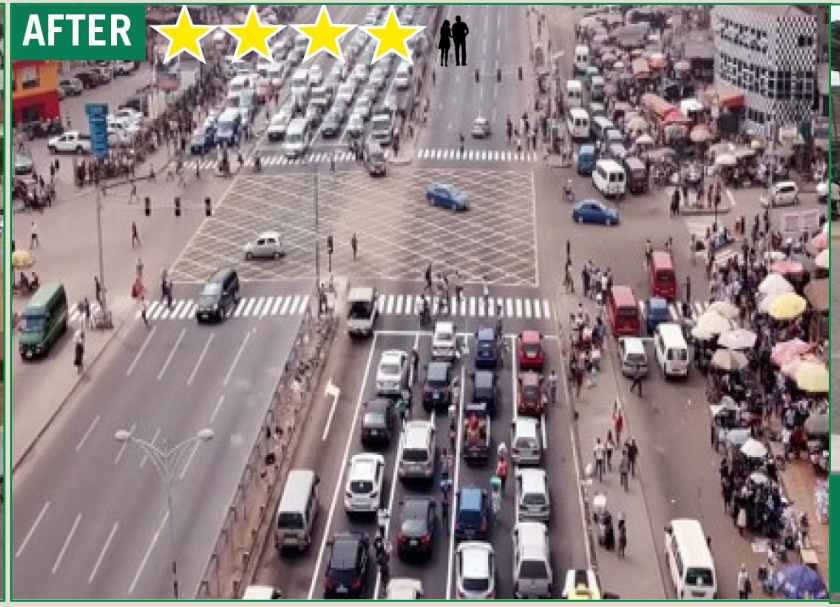
Data released in Interactive Road Crash Index



ACCRA, GHANA

Lapaz Intersection, N1 Highway

- In 2015, a person died every fortnight at the Lapaz intersection.
- Pedestrians and cyclists mixed in 14 lanes of traffic travelling at speeds of 90-120 kms/hr.
- An iRAP supported upgrade project vastly improved safety, funded by Accra Metropolitan Assembly (AMA) and the Bloomberg Philanthropies Initiative for Global Road Safety.



QUEENSLAND, AUSTRALIA

Bruce Highway

- 82% reduction in fatal and serious injuries and risk of death and injury more than halved
- Safety jump from 2-stars to 4 and 5-stars
- Reduction in head-on, run-off-road and intersection crashes

Images credit: TMR

Shanghai, China

Yangpu District

- Shanghai's Yangpu District is transforming its streets through world-class design.
- This project delivered 5-star safety for bicyclists and pedestrians.
- It’s the first project to prioritise green transport and safety for students.

Images credit: BIGRS

Check out the video - https://vimeo.com/327857274

Keen to see more safer roads saving lives?

Come with us on a road trip!

with our Google Earth Story

Thank you very much !

Nathalie Chiavassa
Safer Journeys Lead, Africa
International Road Assessment Programme – iRAP
nathalie.chiavassa@irap.org
https://irap.org/

AFRO SAFE ACADEMY

www.ictct.net/afrosafe

iRAP

DECADE OF ACTION FOR ROAD SAFETY 2021 - 2030

FIA FOUNDATION