

The Accelerated and intelligent collection of RAP attributes

Presentation by Monica Olyslagers, iRAP

Roundtable on Artificial Intelligence in Road Traffic Crash Prevention 10-12 February 2021













Sustainable Development Goal Target 3.6 aims to **halve** the number of road deaths and injuries by 2030.







What we do

iRAP provides the intelligence, tools, technology and training to:



Inspect high-risk roads and develop Star Ratings, risk maps and safer roads investment plans



Track road safety performance so that funding agencies can assess the benefits of their investments



Build, support and sustain national, regional and local capability



Advocate for safer road policies, planning, design and investment



Target 3: By 2030, all new roads achieve technical standards for all road users that take into account road safety, or meet a three star rating or better.



Target 4: By 2030, more than 75% of travel on existing roads is on roads that meet technical standards for all road users that take into account road safety.













































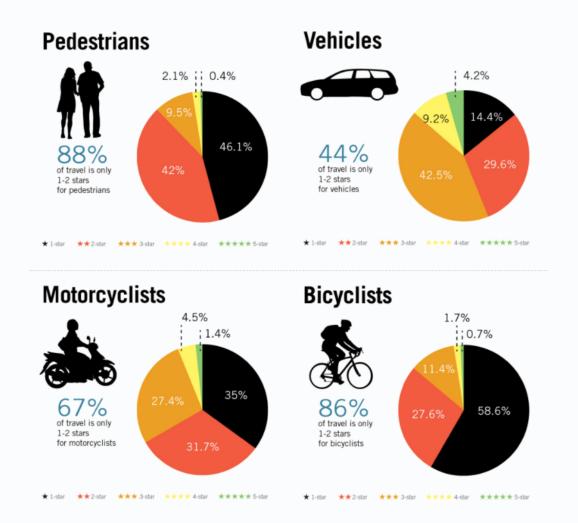
9100+ countries

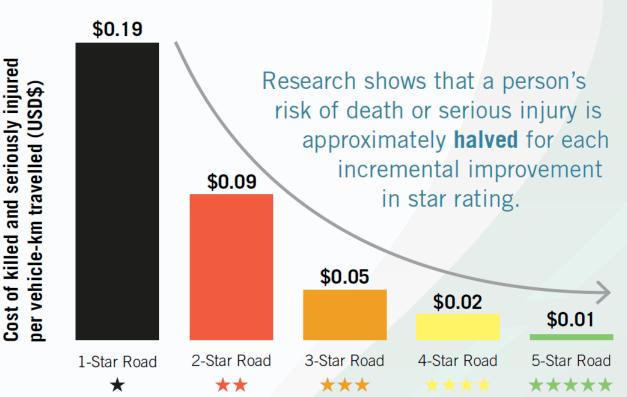














Intersection type Intersection quality Intersecting volume Channelisation Property access point









iRAP Star Rating





EXTREME RISK





Curvature Quality of curve

Area type Speed Vehicle flow

Street lighting Shoulder rumble strips Vehicle parking Service road Pedestrian fencing

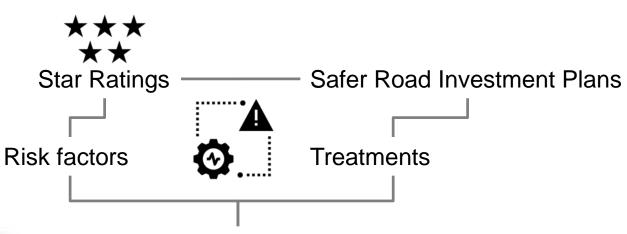
Motorcycle facility Bicycle facility Bicycles flow Pedestrian flow

Crossing facility Crossing quality Speed management Roadworks

Lane width Number of lanes Road condition Skid resistance

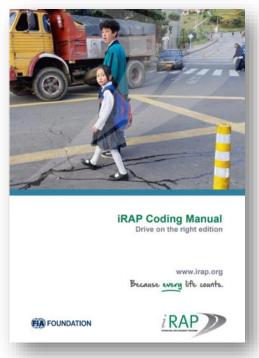
Median Centreline rumble strips Sight distance Delineation Grade





BCR of safety measures

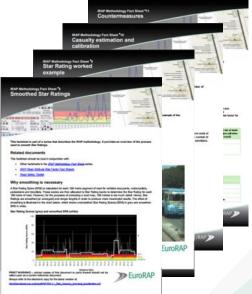
FSI estimation



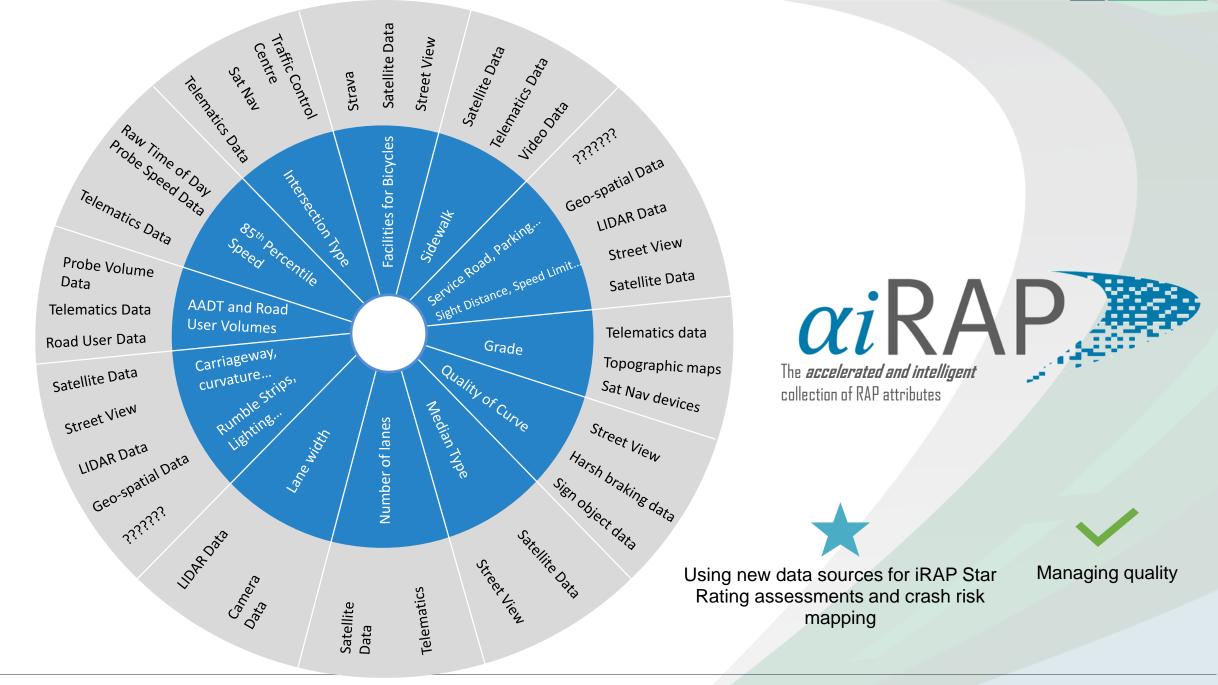
Research & evidence

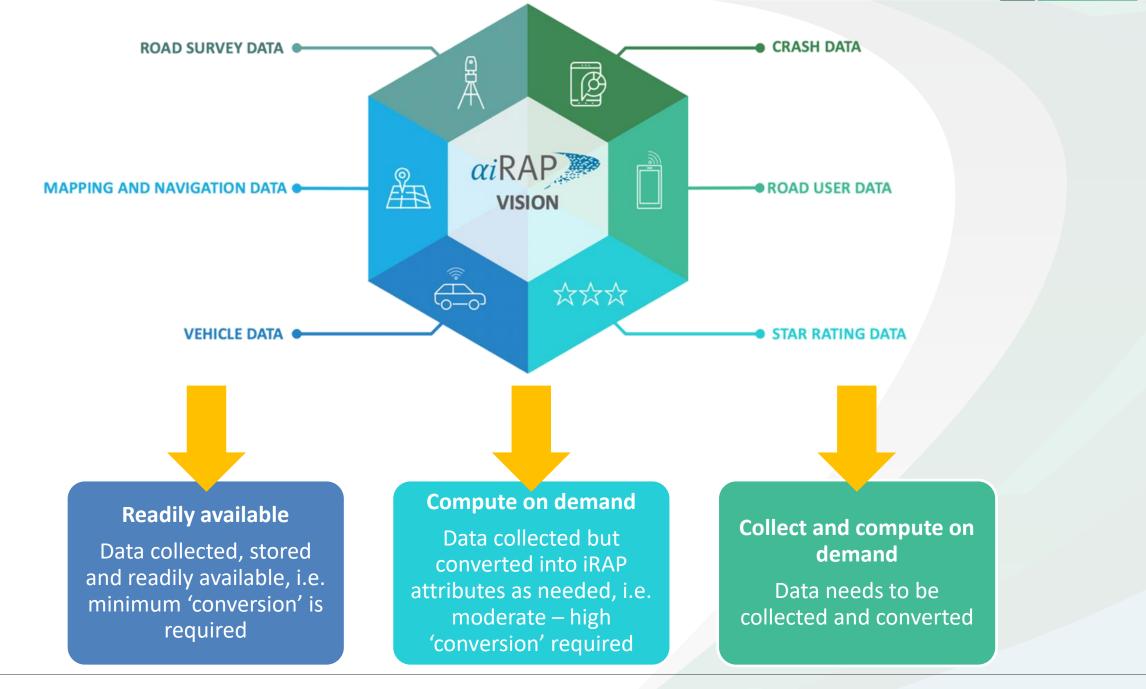






- Globally applicable models for 4 road user groups: Pedestrians, bicyclists, motorcyclists and vehicle occupants.
- Supported by evidence documented in our Methodology Factsheets www.irap.org/methodology
- The Coding Manual ensures data is collected to the global standard www.irap.org/specifications

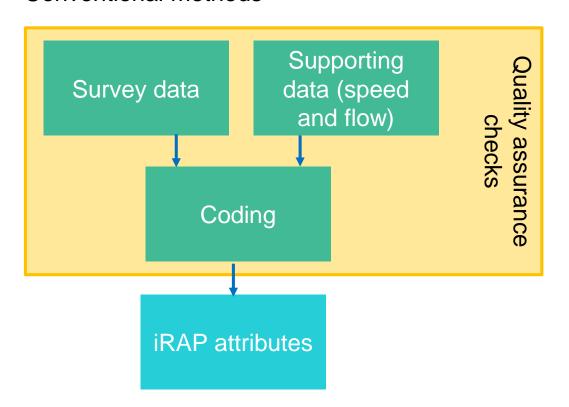


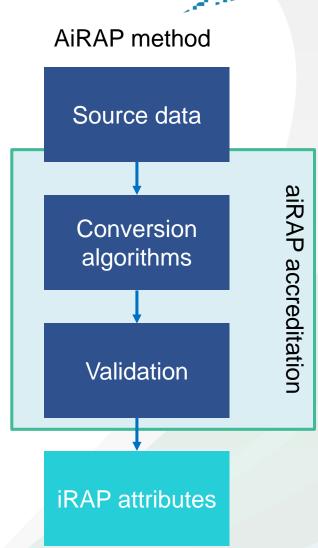


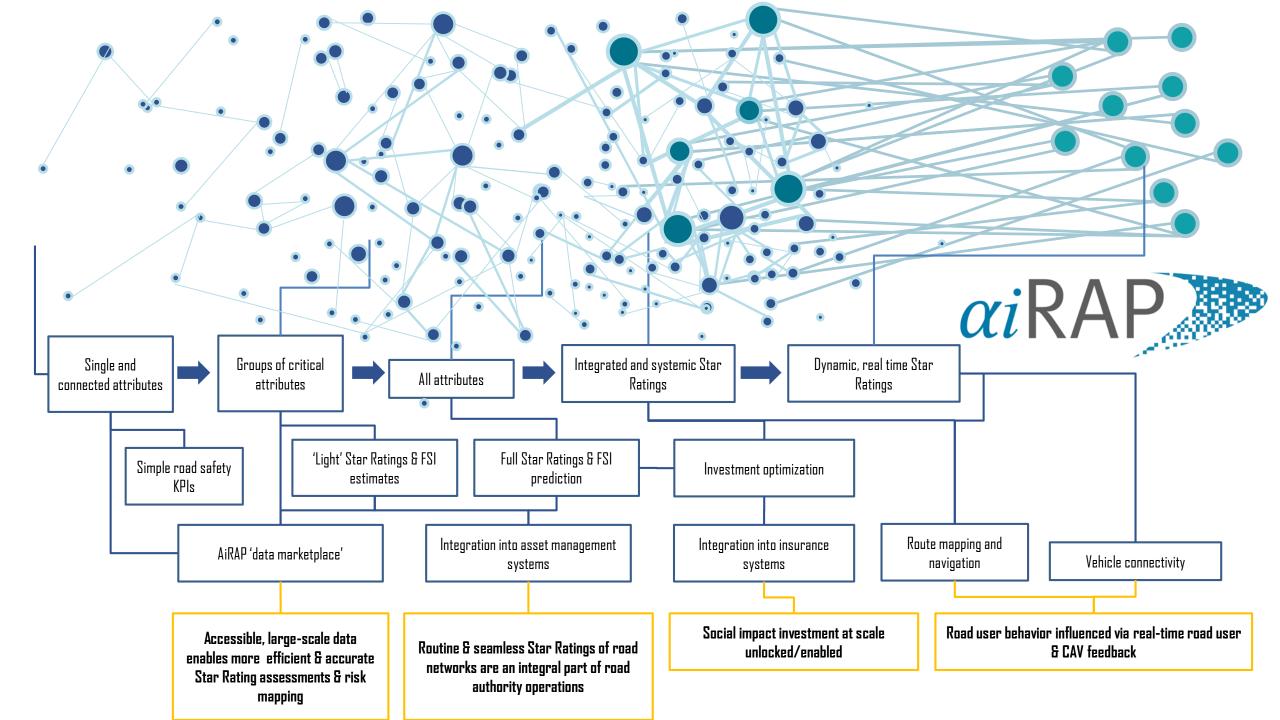
Data quality and consistency is key!

$\alpha i RAP$

Conventional methods







Questions?

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A World Free of High Risk Roads