- Poor Curve delineation
- Sharp curve and poor curve quality
- Lack of Sight Distance when approaching curve
- Unprotected Vertical Embankment
- Narrow shoulders width around curve
- Damaged barriers – unprotected cliff
- Lack of shoulder and centreline rumble strips

Saving Lives is our business

We all know someone who has either lost their life or suffered a life-changing injury due to a road traffic accident. Yet when we step back and think about it, we realize that every crash is indeed preventable!

Projections indicate that, without proactive measures, the annual global tally of road fatalities could escalate to approximately 2.4 million by 2030, with most of these tragedies unfolding in low and middle-income nations. Vulnerable road users such as motorcyclists, bicyclists, and pedestrians are poised to comprise nearly half of these casualties.

In response to this challenge, ARRB Systems employs its Hawkeye platform to collect road condition data and assess the inherent risks on the road network.

Working closely with the International Road Assessment Programme (iRAP), ARRB Systems' Hawkeye 2000 is an accredited inspection system, and our complementary software provides life-saving road network assessments.

Our team of more than 20 dedicated iRAP accredited professionals utilize global standards and universal safety assessment methodology to help road authorities reach their Road Safety targets.

ARRB SYSTEMS Hawkeye Processing Toolkit's rating forms are fully customizable and used to code roadside attributes easily and effectively from a desktop view. This makes the network level road safety analysis faster

and more cost effective while obtaining a high level of accuracy.

The network evaluations pinpoint the areas with the greatest danger, and our team uses an evidence-based approach to recommend improvements to the level of safety. We use this data to create a work program that includes a cost-benefit analysis and thereby ensure the investment will be profitable and result in lives saved and serious injuries prevented.

Star Ratings Before Implementation of Countermeasures
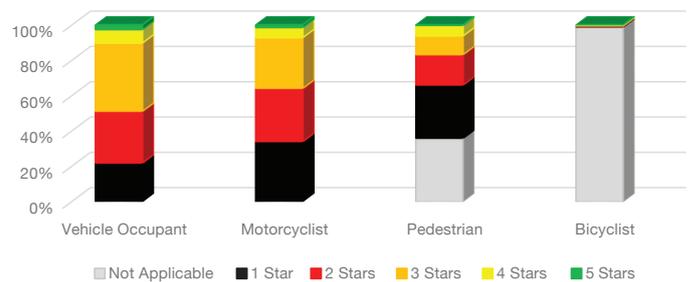
Star Ratings After Implementation of Proposed Countermeasures

PAVEMENT MANAGEMENT INTELLIGENCE
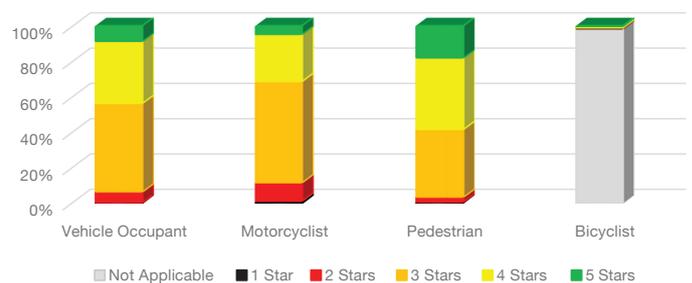
Key NSV Features

- Digital Imaging System - captures georeferenced images or videos of road assets for visual safety assessments.

- Rotorpulser (DMI) - measures distance data for accurate recording of road chainages.

- GIPSI-Trac 2 – uses dead-reckoning sensors and dual GNSS antennas to collect position and road geometry information for measurement of surface curvature and grade.

- Digital Laser Profiler - accurately records the roughness (IRI) and texture (MPD) on the road surface.

- Automatic Crack Detector (ACD) - automatically detects and rates surface defects and cracking.

- Data acquisition system – Unique industry leading Hawkeye Onlooker is an acquisition control interface that can control and monitor all the Hawkeye systems simultaneously.

Key Software Features

- Display multiple customer-defined data layers.

- Stream and play video channels when coding road attributes.

- Imagery Data is processed at various intervals for precision road safety ratings.

- Customizable rating form.

- Filter map data by different attribute values for custom displays.

- Data is referenced with GPS co-ordinates and chainages.

- Display up to nine thumbnail images, expandable to high resolution.

- Accurately measure on-screen object height and width measurement.

ARRB Systems has undertaken more than 30 000km's of road safety assessments using the Hawkeye 2000.

iRAP ACCREDITED

Digital Imaging System

GNSS

Automatic Crack Detector (ACD)

PAVEMENT MANAGEMENT INTELLIGENCE

HL 858-340

HAWKEYE

arrb SYSTEMS

Digital Laser Profiler

Data acquisition system

Rotorpulser (DMI)

GIPSI-Trac 2 Geometry

Front centre view camera

Left camera

Right camera

Curb and Gutter camera Left side

Curb and Gutter camera Right side

Rear camera
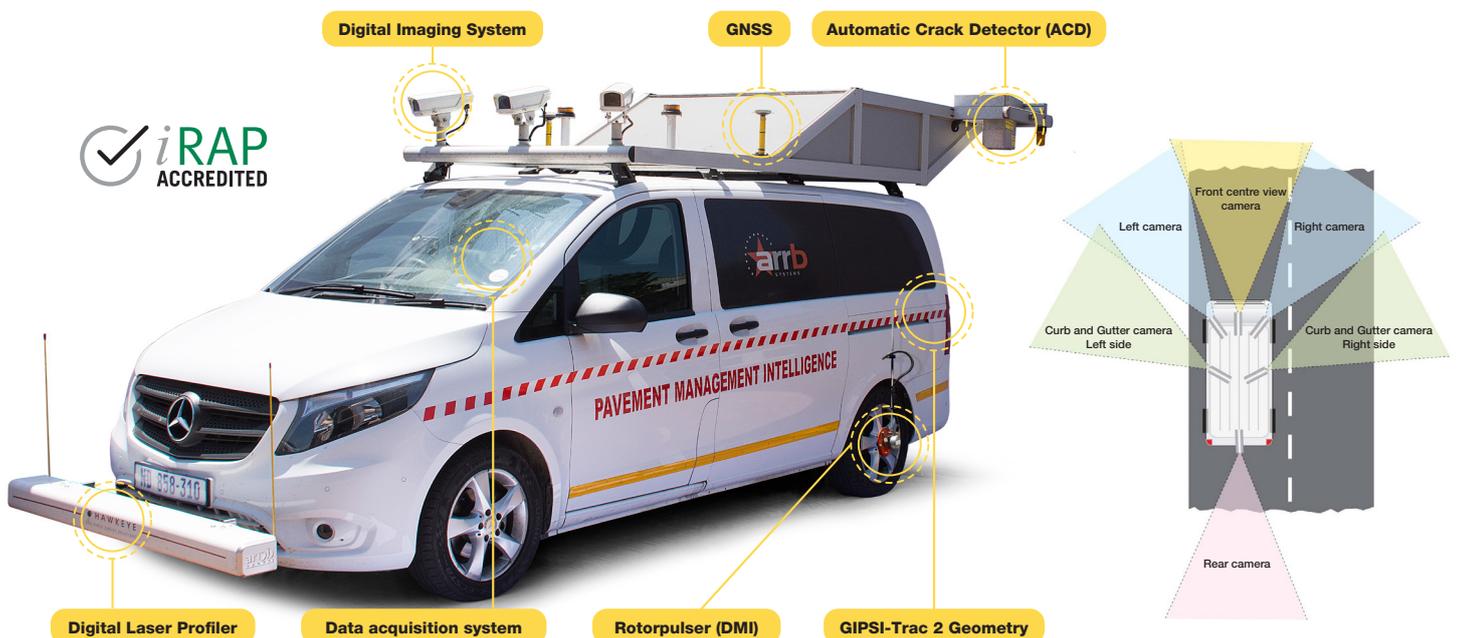
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