



Fedasen Intelligent

A holistic platform for Road and Footpaths Asset Management

- ☐ Highly Automated
- ☐ Near-realtime
- ☐ Identification & Classification
- ☐ Condition Assessment
- ☐ Change Detection
- ☐ Virtual Inspection
- ☐ Work Order
- ☐ Assets
- ☐ Defects
- ☐ Hazards

Road Analyser



Full
Automation

FEDASEN Provides Revolutionary Asset Management Solutions

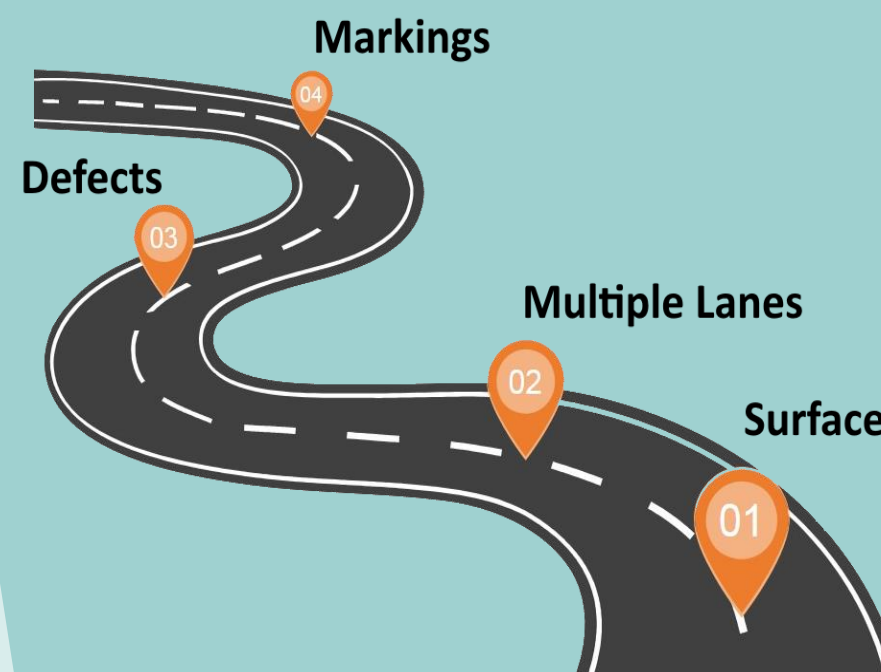
Road & Roadside

It takes a smart solution to collect the data of your road and roadside assets and the pavement defects and update them in near-real time.

FEDASEN
Intelligent Road Analyser
(FiRA) does just that.



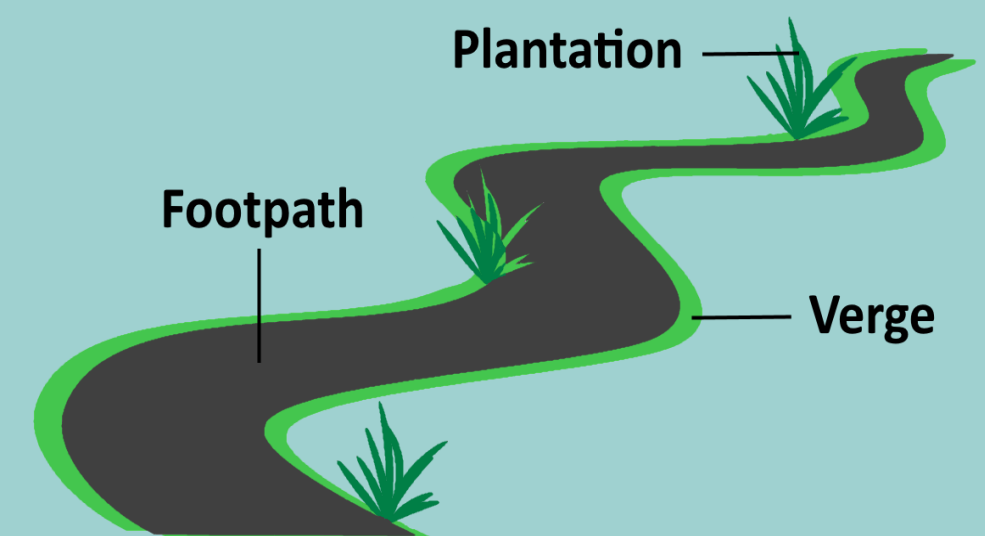
Pavement



FEDASEN's solution for pavements and pavement markings sweeps the surface of the carriageways, identifying the markings by which the special-purpose zones are delineated, or the road users are guided.

Footpath & Verge

We have a customised solution for capturing and processing footpaths, shared paths, cycle paths, verges, driveways, ramps, bus stop infrastructure, infrastructural equipment, and service pits.



Assets

Keeping an up-to-date inventory of millions of assets manually or not-so-smart technical solutions is not easy.

FEDASEN uses **Artificial Intelligence** to discover and classify any visually detectable assets on the road and roadside and perform a fully automated condition assessment.

Signage & Devices

- Regulatory & Guide
- Warning & Hazard
- Parking Management
- Traffic Control Systems

Line Marking

- Parking Bay
- Special Purpose Zone
- Separator Line
- Edge Line
- Directional Arrow

Surface

- Carriageway & Road Lanes
- Footpath & Shared Path
- Earth & Planted Verge
- Hump & Driveway
- Bridge & Overpass

Zone

- School Zone
- No Stopping & Parking Zone
- Bus & Taxi Zone
- Loading Zone
- Special Vehicle Zone

Infrastructure

- Kerb & Channel & Drainage
- Safety Barriers & Fencing
- Traffic Management Devices
- Retaining & Noise Wall
- Bus Stop & TGSi
- Manhole and Equipment

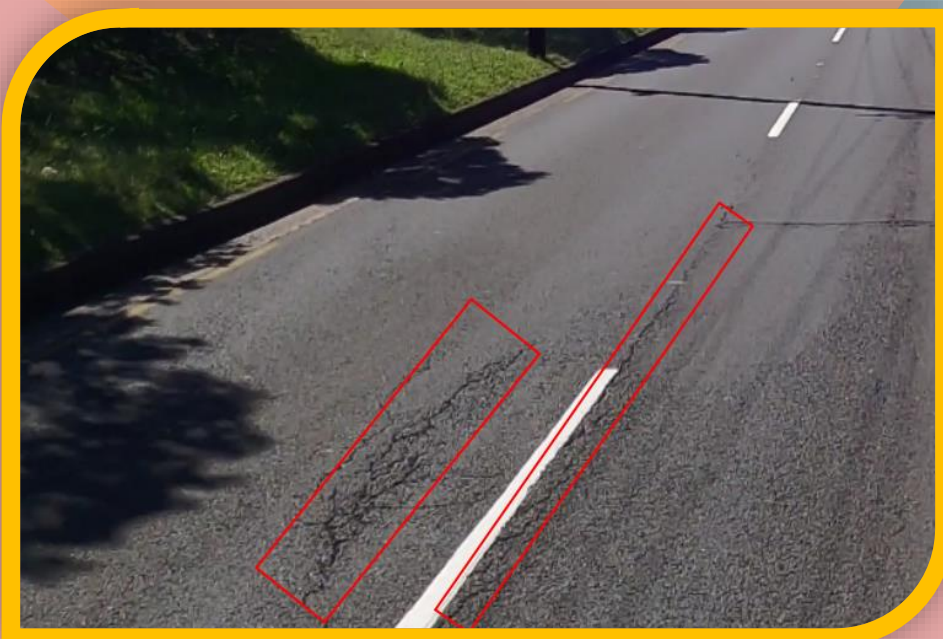
Landscape

- Grass-covered Areas
- Flowering Plant
- Shrub & Hedges & Tree



Defects & Hazards

FiRA's sharp eyes miss no defect on the pavement nor any hazardous condition



Cracking

- Longitudinal Joint Cracking
- Longitudinal Cracking
- Transverse Cracking
- Crocodile Cracking
- Corner Cracking

Joints

- Disjointing
- Misalignment
- Slab Replacement
- Concrete Joint damage

Pothole & Patching

- Unsuccessful Patch
- Pothole Patch
- Heavy Patch
- Pothole

Texture

- Raveling
- Depression
- Stripping & Scraping
- Spalling & Micro Milling
- Flushing & Bleeding

Trip Hazards & Unevenness

- Edge Drop-off
- Complete Failure
- Tree Root Swelling



Excessive usage, severe weather conditions, and even incidents decrease the serviceability and safety of public pathways. To meet the ever-increasing expectations of public road users, you need an intelligent means to keep a constant eye on the path.

FEDASEN Intelligent Road Analyser will help you every step of the way.



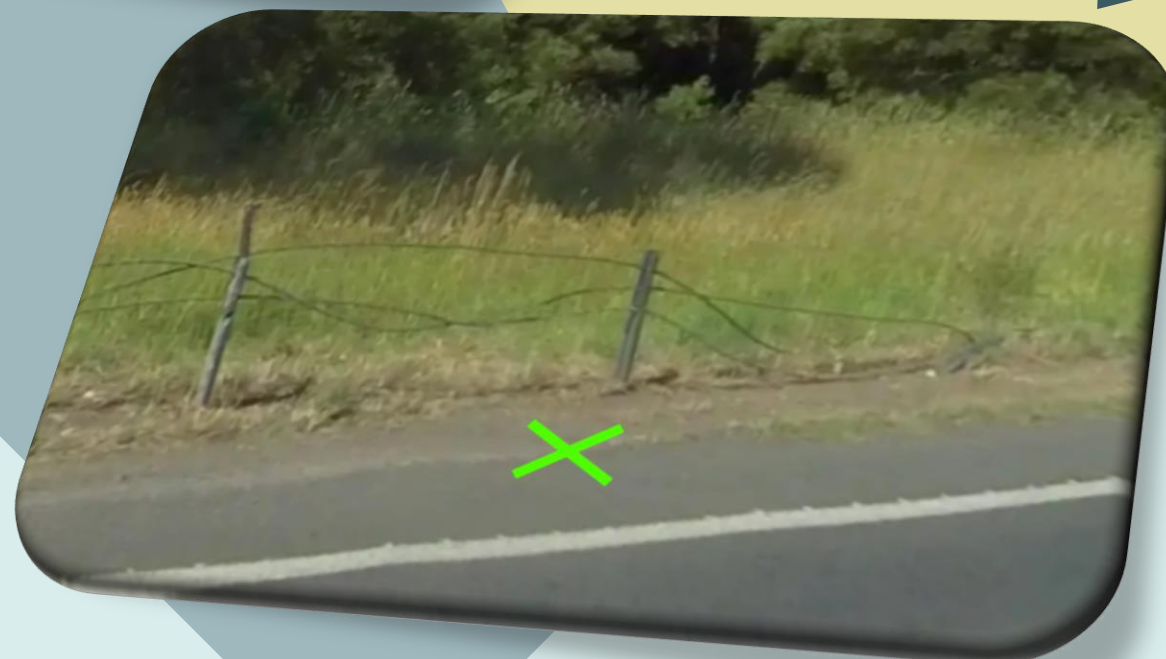
Condition & Safety Assessment



- ☐ Low Severity
- ☐ Moderate Severity
- ☐ High Severity



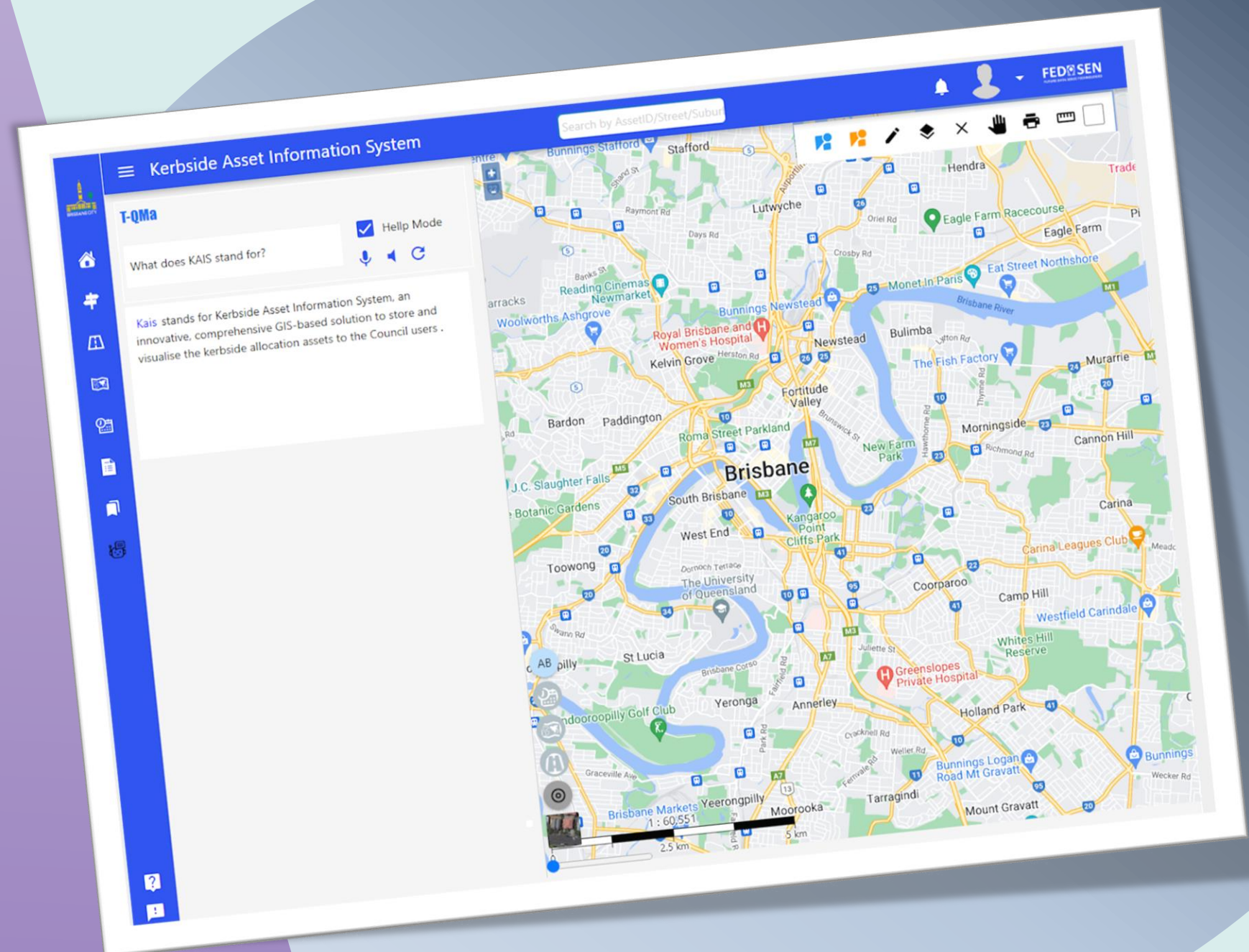
- ☐ Brand New
- ☐ Good
- ☐ Fair
- ☐ Poor
- ☐ Unserviceable



FEDASEN's solution automatically performs the condition assessment of the assets and the safety risk of the defects at the time of discovering the assets and defects.

Don't put in additional time and effort.
Maximise the capacity of public pathways.

Dynamic Report & AI Agent



T-QMa is Fedasen's advanced AI-driven system for comprehensive and dynamic transport asset querying.

- Dynamic Reporting and Querying
- Dynamic Data Visualisation
- Text/Speech Comprehension



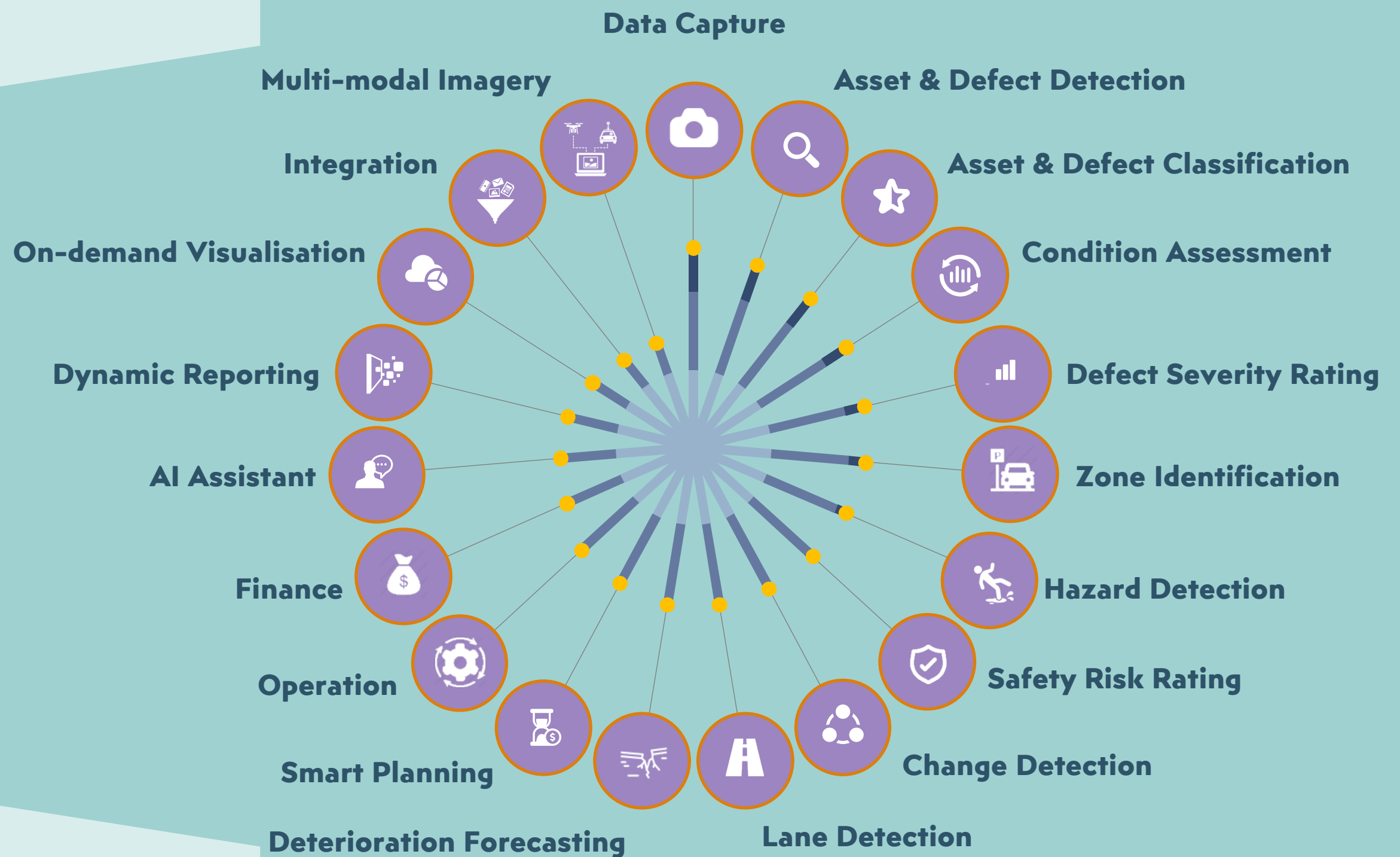
FEDASEN Smart Services

Most of the current technological solutions are inadequate to support all aspects of the business seamlessly. So, we have come up with a combination of

state-of-the-art equipment
&
innovative software algorithms
&
Artificial Intelligent

to provide solutions to thoroughly cover our clients' requirements in building an inclusive inventory of geospatial assets and defects, analysing their current condition, keeping the inventory updated to follow real-world changes and initiating and coordinating development and maintenance work orders.

Smart Services For Smart Organisations



Trust **FEDASEN**
as your strategic
partner.

They have:



Brisbane
City Council

Kerbside Asset Information System



Transport
for NSW

AI-powered Solution for Road Asset
Data Collection



Kerbside Space Allocation



Safety Barriers Data Collection



Road Asset & Pavement Defect Data
Collection

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FUTURE DATA SENSE TECHNOLOGIES