



ROUTE REPORTS

Road Analytics Platform

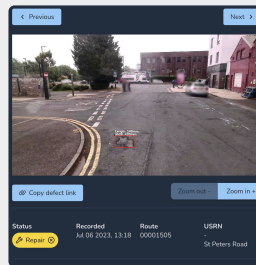
Service Definition Document



Platform overview



Purpose built devices and cameras analyse and transmit live data and anonymised imagery from your vehicles over 4G.



Data is displayed instantly on our online platform.

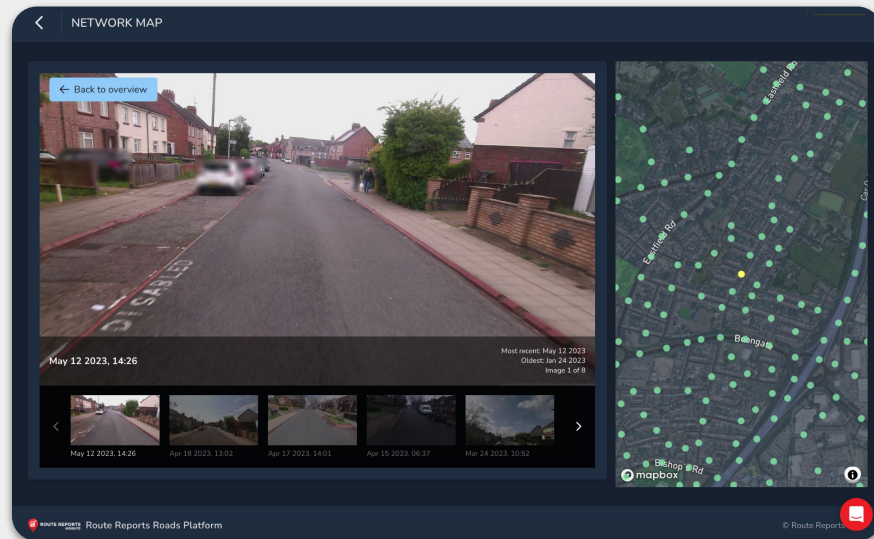


Can be sent automatically to your existing works management system if you choose to integrate it with Route Reports



Route View

- Rapidly deal with resident enquiries without sending a vehicle to site
- 120° Imagery collected every 10 meters
- Historical imagery for anywhere your vehicles travel on your network, stored indefinitely
- Jump between dates to see changes in the network, such as contractor works





Automated Detections

Defects:

- Speed up safety inspections by getting automated measurements of defects across your network at up to 70mph
- Adapts to your existing defect matrix and risk based approach
- Minimum size thresholds can be set to ensure that only important defects are seen or sent to be fixed
- Analyse defect difference over time, with growth metrics

Signs:

- The system generates a full inventory of the signage on your network

Status	Recorded	Route	USRN
Repair	Jul 11 2023, 14:47	00000254	- Broad Close

Width	Length	Depth	Growth rate
234mm	488mm	28mm	N/A

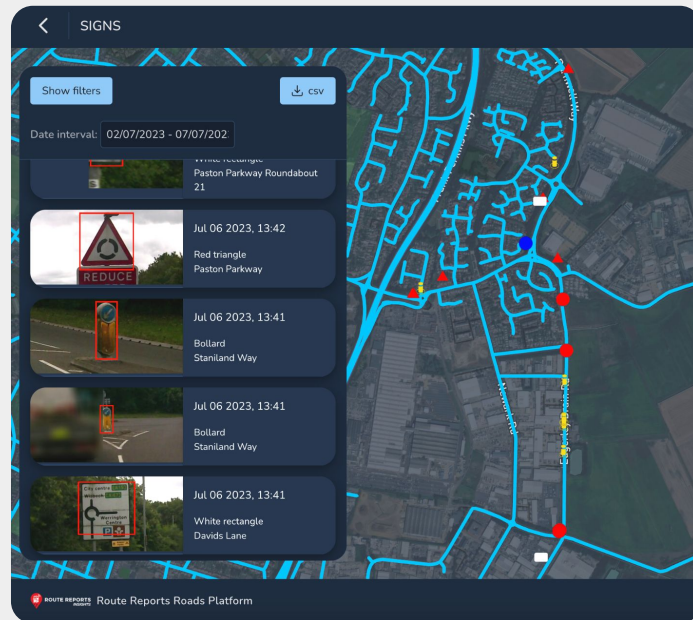




Automated Detections

Signs & Street Furniture

- Identify signage and street furniture defects
- Find safety critical defects such as graffiti, foliage overgrowth and missing signs
- Export a sign inventory as CSV or Shapefile





Automated Repair Forwarding

- Gain significant time savings and an easier way to make sure your network is well maintained by using an automated, preventative approach
- Defects can be manually exported as CSV or PDF to your specifications
- Automated integrations can be used to raise work orders in your works management system based on defect details with minimal human input required

The screenshot shows the 'REPAIRS' section of the RouterReports application. It features a table of detected road defects. The table has columns for 'Preview', 'Size (w-l-d)', 'Vehicle', 'Road', 'Detected', 'Exported', 'Category', and 'Actions'. The 'Exported' column has a 'Yes' or 'No' status. The 'Category' column lists categories like 'C1', 'C3', and 'n/a'. The 'Actions' column contains icons for sharing, marking, and deleting. The interface also includes a 'Hide map' button, a 'Data from last: 30 days' filter, and buttons for 'Hide exported', 'CSV', and 'PDF'.

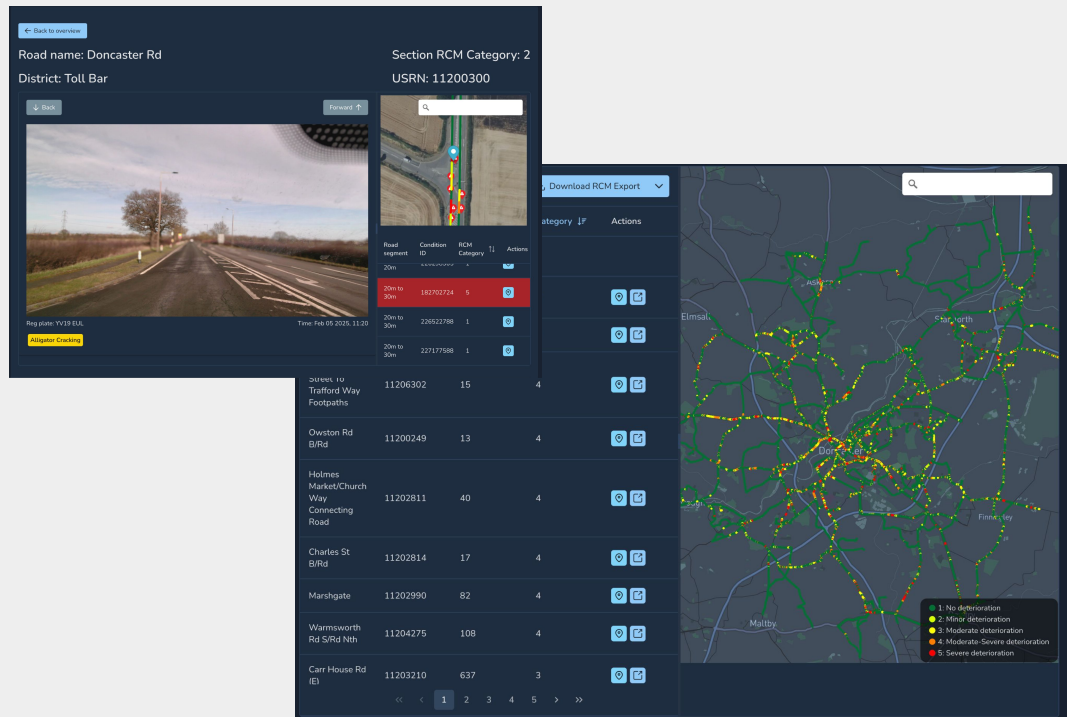
	Preview	Size (w-l-d)	Vehicle	Road	Detected	Exported	Category	Actions
☐		288 x 413 x 45 mm		Audley Gate	Jul 06, 09:41	Yes	n/a	
☒		378 x 1019 x 47 mm		Mayors Walk	Jun 26, 12:07	Yes	n/a	
☒		348 x 1345 x 55 mm		Chancery Lane	Jun 16, 07:24	Yes	C1	
☒		486 x 1476 x 65 mm		Oundle Road	Jun 09, 11:17	Yes	C3	
☒		257 x 224 x 41 mm		Oxney Road	Jul 06, 14:15	Yes	n/a	
☐		623 x 1455 x 38 mm		Oundle Road	Jun 13, 11:42	Yes	C3	
☐		497 x 1373 x 53 mm		Albert Place	Jun 22, 15:13	Yes	C1	



PAS 2161 Surveys

Road Condition Monitoring

- Automated road condition categorisation in compliance with PAS 2161, provided quarterly
- Export data in the PAS 2161 common file format
- Use the UI to understand each road condition category in more detail





Advanced Road Condition Monitoring

- Monthly snapshots of road condition, with advanced condition defect detection
- Road width measurements
- Deterioration over time - showing rates of deterioration
- Coverage view to aid in survey planning
- Providing a surface area for each type of defect alongside a defect matrix to allow for repair/scheme planning





Suitable Environments

- The system is capable of detecting defects and taking imagery anywhere from rural lanes to high speed motorways.
- The system is able to take clear imagery in:
 - Hours between sunrise and sunset
 - All weather conditions





Benefits of the System



Time and cost saving

Less manual work is required to log basic defect information.

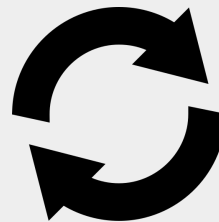
Inspector expertise is focussed on making defect repair decisions



Safety

Inspectors no longer have to leave their vans to record defect information on an active road.

Defects can be recorded while driving at up to 70mph



Repeatability

Defects seen more than once give historical information, to enable faster decision making.



Platform Functionality

Services	
Device Fitment and Initial Setup	Base Service
Adoption and Feedback meetings	Base Service
PAS 2161 Compatible Road Condition Exports (Annual Capture) 1-5 scores for each 10 meter section of road	PAS 2161 Add on
Advanced Road Condition Functionality - Detailed defect reports for each 10 meter section - Deterioration Modelling - Monthly Capture	Advanced Road Condition Monitoring Add on

Platform Features	
Route View	Base Service
Automated Detections	Safety Inspections Add on
Manual Defect Export via CSV and PDF	Base Service
Automated Defect Export to Works Management Systems	Safety Inspections Add on
Product Customisations	
Network Map Integration (for automated data collection based on GPS)	Base Service
Defect Measurements & Size Thresholds	Safety Inspections Add on
Automated defect categorisation (based on defect matrix or risk assessments)	Safety Inspections Add on



Deployment Plan

Pre-Contract: Contract Signing & Preparations

- ✓ Confirm no. devices, fitment date
- ✓ Customer provides vehicle plates and geospatial maps of the road network (shapefile or geojson)

Post-Contract: Device Fitment & Setup

- ✓ RR installs devices & tests connectivity
- ✓ Maps configured & verified for coverage
- ✓ User accounts created & platform access granted

1st Week after Fitment: Activation

- ✓ Calibrate devices (camera angles & defect detection)
- ✓ Onboarding meeting: Confirm all setup steps complete
- ✓ Customer verifies platform access

2-3 Weeks After Fitment: Training

- ✓ Training session: Platform Walkthrough, Q&A
- ✓ Use Case Review
 - How to action detected potholes
 - How to use imagery for resident enquiries

Month 1+: Platform Operational

- ✓ Regular check-ins for feedback & troubleshooting
- ✓ Begin integration discussions (Confirm, ESRI, etc.)

Months 2-6: Process Integration

- ✓ Design, implement & test integrations
- ✓ Ensure seamless defect & work order transfer

Months 6-10: Business Review

- ✓ Evaluate impact, efficiency gains & cost savings
- ✓ Option for case study, join marketing & press release

Months 10-12+: Scaling and Long Term Implementation

- ✓ Discuss expanding device deployment
- ✓ Confirm renewal & long-term strategy