Transport for London Trials RoadMetrics' AI Based Road Condition Assessments

About the Trial

The trial was carried out over a 6-week period, covering 162 km, and led by Leigh Boswell, Principal Asset Strategy Manager at TfL, for selected sections of their Key Route Network in London.

RoadMetrics collaborated with Andreas Chrysanthou, Asset Strategy Manager, and Stewart Wilson to coordinate and lead data collection efforts for this trial.
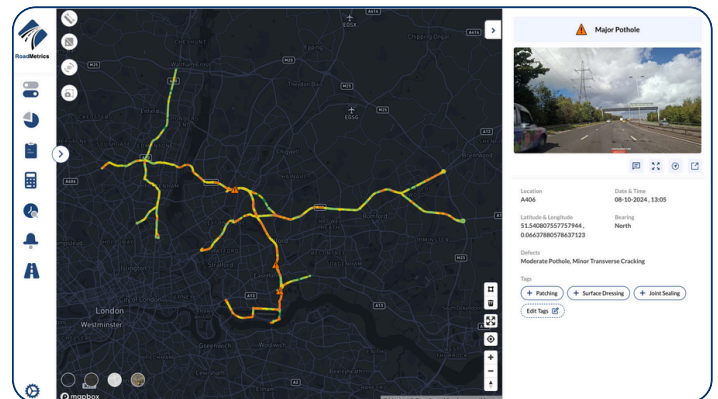
One loaner hardware kit was provided for TfL's Highways Inspections Officers and "hot swapped" to perform data collection.

Trial Objectives

- Evaluate the accuracy and ease-of-use of the system
- Assess the results and evaluate fit to specification requirements for AI style surveys within TfL

Outcome

- Five-level road condition classifications were provided and potholes were identified across the surveyed areas

- Data exportable in GeoJSON and Shapefile formats for integration to IBM Maximo asset management

- Positive feedback on the system's accuracy and data consistency

"TfL is currently exploring the available AI road survey providers in the market. RoadMetrics provided TfL with a trial on parts of the Transport for London Road Network. We have found that the RoadMetrics system along with other similar systems can offer potential benefits for developing asset strategy and investment plans."

-ANDREAS CHRYSANTHOU, ASSET STRATEGY MANAGER, TRANSPORT FOR LONDON