

COVID

Roads Authority inspections/programmed works during the pandemic

- Safety Inspections
 - Adherence to Govt Guidelines
 - Not able to undertake two person driven inspections
 - Difficulties in terms of social distance for walked inspections
- Programmed/Planned works
 - Joint site inspections
 - Plant/Materials
 - External Contractor availability

Roads Inspections – Traditional Human Assessment

- Safety Inspections

Drive slowly to detect and document

Conducting inspections with two trained personnel per vehicle is a common method of assessing road conditions. This approach limits how much data inspectors can gather and record while they're driving the route

- Asset Management – Data

Takes weeks to get data in usable format

After driving long distances to assess the roads and record conditions, it takes time to enter the data in a database and extract it in a usable format

Roads Artificial Intelligence (AI)

- What is Roads AI?
- Road maintenance is traditionally time- and resource-intensive. From potholes to road signs, the challenge for engineers is to manage a dynamic environment that covers hundreds or even thousands of miles.
- Artificial intelligence (AI) is helping road maintenance organizations improve their planned and reactive road maintenance strategies. RoadAI provides a quick, complete, objective analysis of pavement conditions through an automated road survey methodology. The end result is a fast and cost-effective means of analysing road conditions, which makes it possible to repair roads faster and keep them safer.



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Roads Inspections – Using AI

- Safety Inspections

RoadAI Full driving speed

Inspector is free to carry out other tasks

With RoadAI, only one person is required in the vehicle, traveling at normal speed. The driver is free to focus on driving

- Asset Management – Data

Immediate; data gathered and shared in real time

RoadAI gathers data in real time during drives; the data can be uploaded and shared right away. Once data is gathered, it can be uploaded and analyzed automatically.

Roads Inspections – Using AI

- Group Discussion
 - What have you implemented during COVID for Roads Inspections?
 - Have you considered the use of AI?
 - Benefits
 - Challenges
 - Future

