TAKE CONTROL OF PAVEMENT ASSESSMENT:
Using better data for optimal road maintenance decision-making

The challenges

Conventional road pavement condition surveys are traditionally performed manually. In general, these inventories are expensive, error-prone, slow, resource-intensive, and therefore, infrequent. Other key challenges include:

- Maintenance funding is typically insufficient for long-term sustainable road asset management with the existing decision-making tools currently in use.
- No visual validation data exists to support programming and making data-driven decisions.
- Road users may report pavement deterioration, but the overall consumer experience remains poor and more extreme remediation efforts are required.

Data analysis with artificial intelligence

RoadAI combines effortless mobile data collection with artificial intelligence analysis.

- Visual data is scanned for defects using artificial intelligence and assessment can be verified by the user from the accompanied visual data.
- Automation and machine analysis remove human error and subjective assessment.
- The system detects multiple different defects including both severe and moderate defect types.

Vaisala RoadAI: Effortless data collection

Unlike traditional pavement condition assessment, RoadAI is a user-friendly tool that enables the operator to collect data using a smartphone without the need for the presence of a second person in the vehicle.

With better pavement condition data comes better decision-making. RoadAI empowers users to:

- Prioritize road maintenance projects
- Optimize maintenance budgeting
- Reduce the cost of pavement surveys
- Improve road user experience

Visit the RoadAI web page to learn more.