YAZAKI

Road Vision

"Road Vision", a DX solution for road maintenance

RoadVision

A service that efficiently maintains roads by using AI to automatically analyze and extract road deterioration and damage from the vibration and image data collected by digital tachographs and driving recorders.

Background or Challenges

Domestic infrastructure, including roads built during the period of rapid economic growth, is deteriorating.
Local governments are facing challenges in terms of maintenance resources and costs due to the aging population and labor shortage.
As a result, efficient repair methods utilizing data are required.

Solutions to Challenges

1 Detects road damage using "Vibration" and "Video"
Detects road damage by utilizing both abnormal "Vibrations" captured by digital tachographs and "Video" of vibration area recorded by cameras.

2 Clarifies damage conditions using "AI judgment"
Automatically determines damage type, level, and repair severity, etc. by using "AI", which analyzes the image data of damaged area.

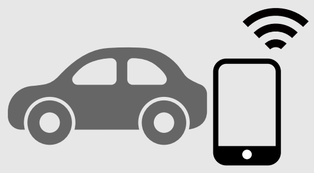
3 Visualizes road utilization and changes with time series
Provides in-depth analysis of the information on the target area, visualizing "Utilization status", such as traffic volume by time of day, and "Time series changes" including changes in damage status.

An AI service that automatically collects driving data from vehicles equipped with digital tachographs operating nationwide, and converts it into "Useful data for road maintenance".

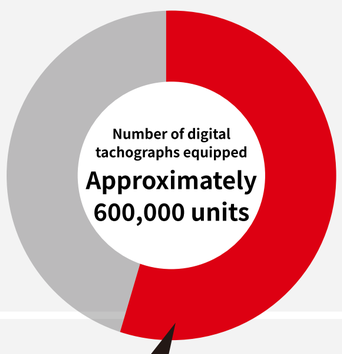
Vehicles equipped with Yazaki's digital tachographs

More than 300,000 units equipped in Japan

Other commercial vehicles



Partner fleet vehicles in local areas



YAZAKI
Market share, approx. 50% or more (installed in more than 300,000 commercial vehicles)

- Automatically collects driving data from commercial vehicles (trucks, buses, taxis) equipped with Yazaki's digital tachographs and driving recorders, and fleet vehicles in local areas.
- Automatically analyzes and organizes the data collected by using AI, which is jointly developed with a major paving company.
- Extracts valuable information and notifies relevant businesses and local governments.