

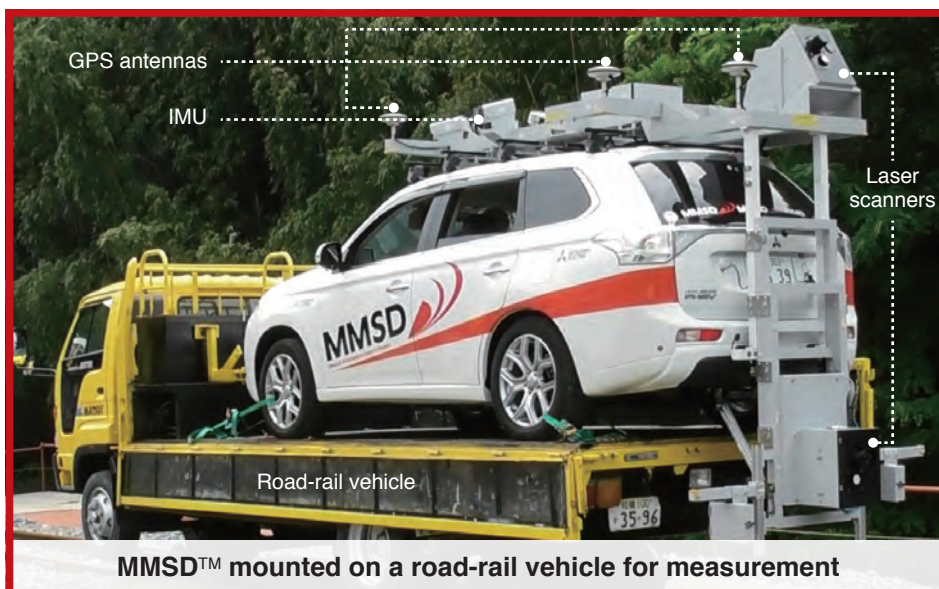
MMS for Diagnosis (MMSD™)

※ Mobile Monitoring System

For railway infrastructure maintenance

About MMSD™

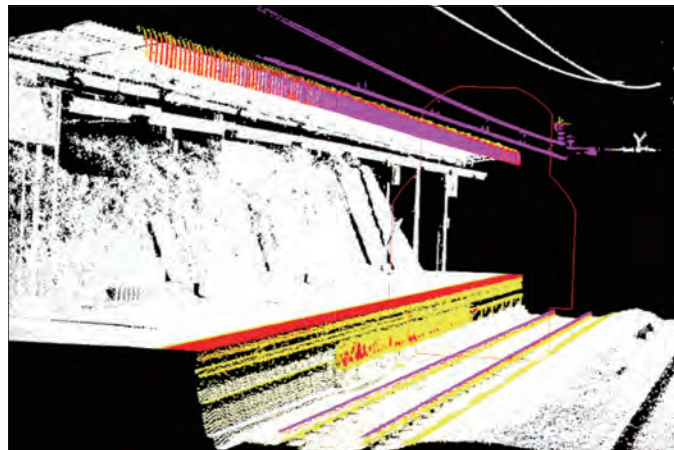
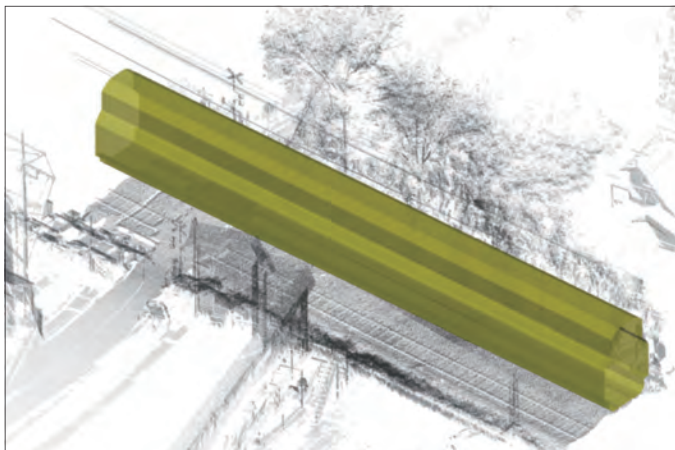
- A measurement vehicle equipped with a GPS, IMU and laser scanner
- By running on the railway track, the vehicle generates a 3D profile with precise position information about the infrastructure and the track itself
- Enables new measurements that are not covered by the electric inspection vehicle or track inspection vehicle
- Solves the problems of measuring with a traditional laser scanner
- Already in use on several commercial lines in Japan



Applications

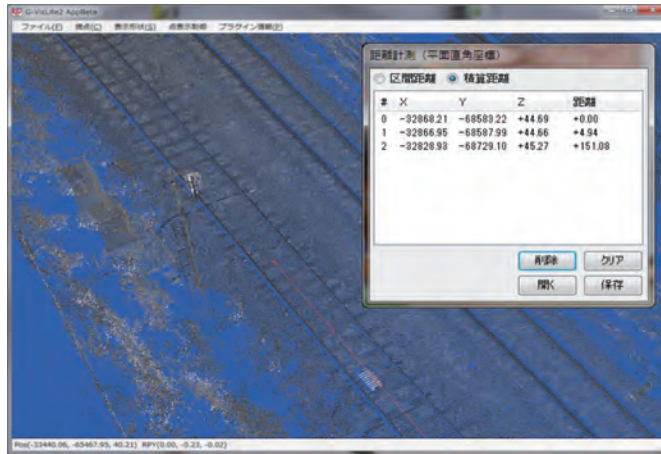
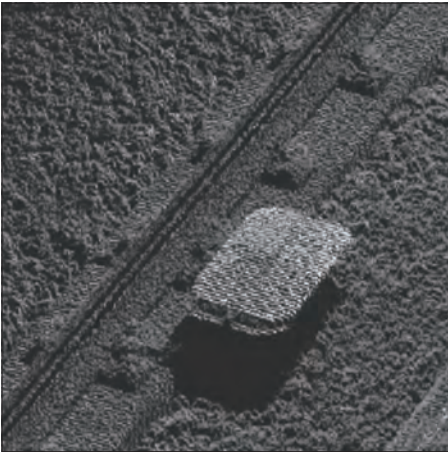
Checking Structure Gauge Clearance

The MMSD™ checks structure gauge clearance by automatically applying the appropriate patterns for various scenarios, such as straight or curved sections of the track, platforms and overbridges.



Measuring Beacon Distances (Beacon-Signal / Beacon-Beacon)

Detect the location of beacons and measure the distance between a beacon and the related signal equipment for ATP and CBTC applications.



Measuring the Height and Deviation of Contact Wires

Measure complicated overhead line positions in insulated overlap sections and parallel overhead crossing sections, that electric inspection vehicles do not measure.



Parallel overhead crossing



Insulated overlap section

Analyzing Slope Profiles and Tunnel Wall Profiles

Measure slope profiles and tunnel wall profiles. By measuring periodically, profile deviations can be checked over time.

