Our Laboratory is Constructing Big Data of Infrastructural Quantitative Information by Digital Signal Processing and Artificial Intelligence Analysis of the Data of State-of-the-Art Laser, Radar and Image Devices.

**Analysis Time:** 1-2 hours/100 km Image

High-Speed and Automatic Diagnosis of Road Surface Condition by Artificial Intelligence Analysis of “Line-Sensor Camera”

**Analysis Time:** 10-20 min./100 km Data

High-Speed and Automatic Diagnosis of Road Surface Condition by Digital Signal Processing of 3-D Point Cloud Data measured by Mobile Mapping System(MMS)

**Estimation of 3-D Spatial Information of Buried Pipes**

Automatic Big Data Construction of Bridge Condition and Ground Structure Information by Both Digital Signal Processing and AI Analysis of 3-D Ground Penetrating Radar Data