MIZUTANI LAB.

[Big Data Construction of Infrastructural Quantitative Information]

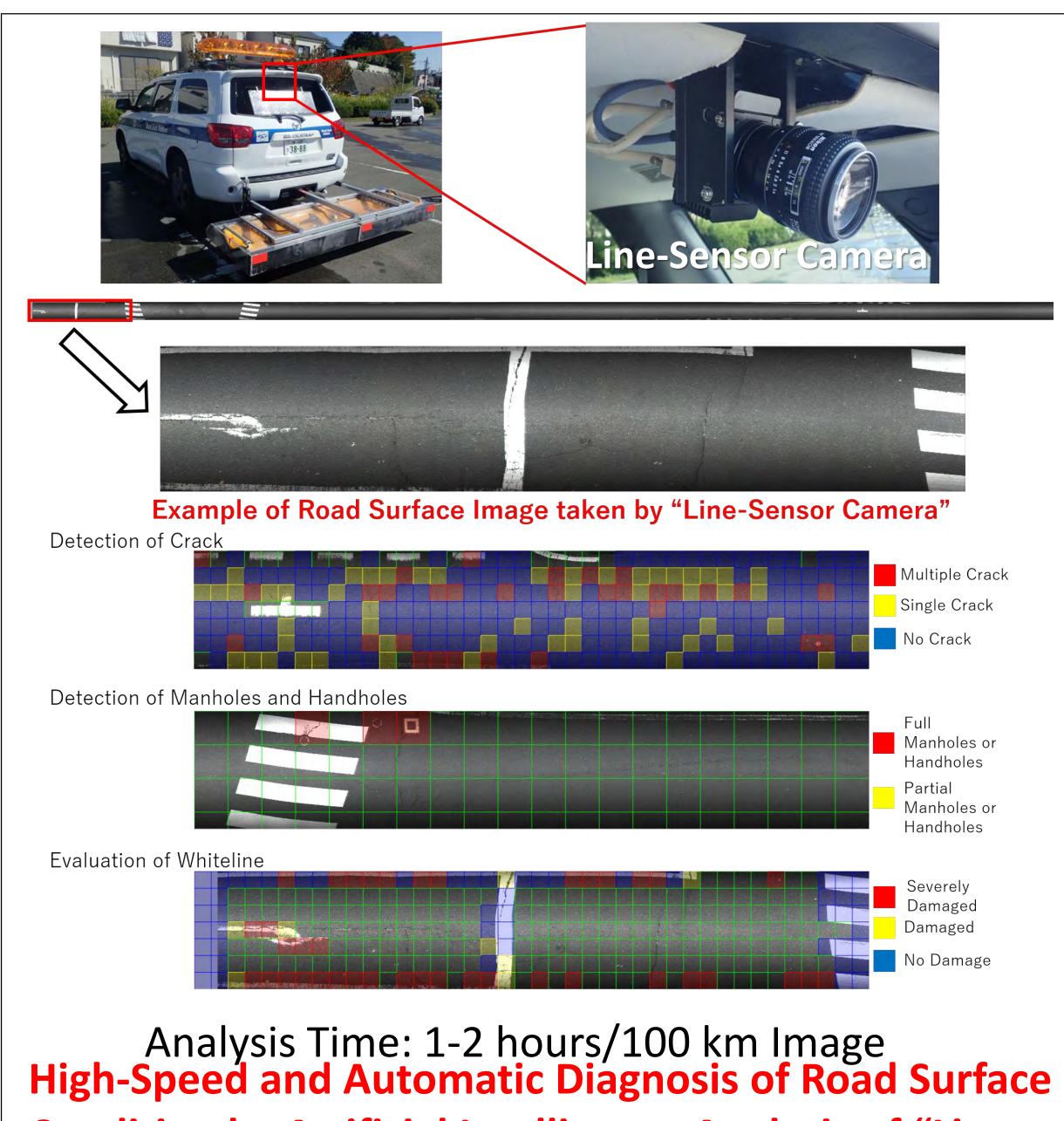
Department of Human and Social Systems

Real-Time Spatial Analysis

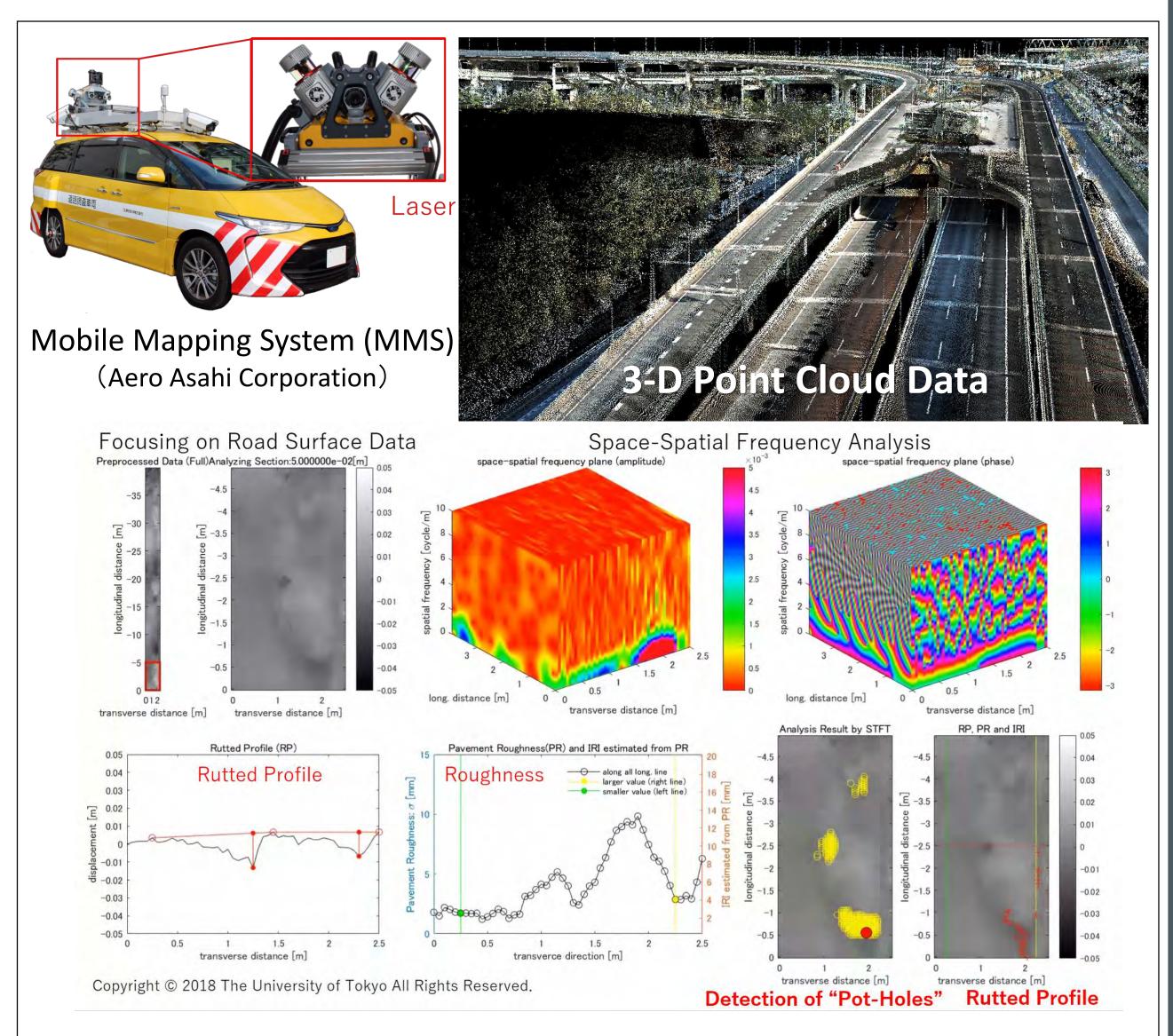
Department of Civil Engineering

https://www.iis.u-tokyo.ac.jp/en/research/staff/mizutani-tsukasa/

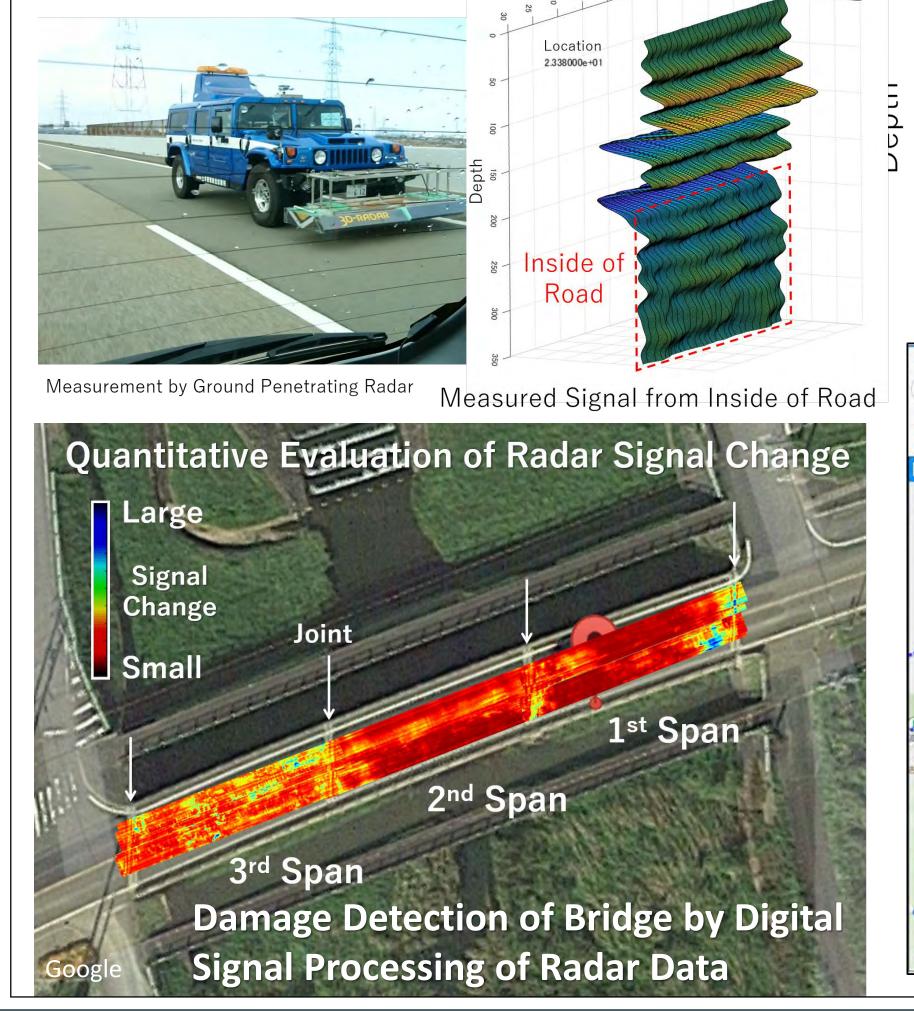
Our Laboratory is Constructing Big Data of Infrastructural Quantitative Information by Digital Signal Processing and Artificial Intelligence Analysis of the Data of State-of-the-Art Laser, Radar and Image Devices.

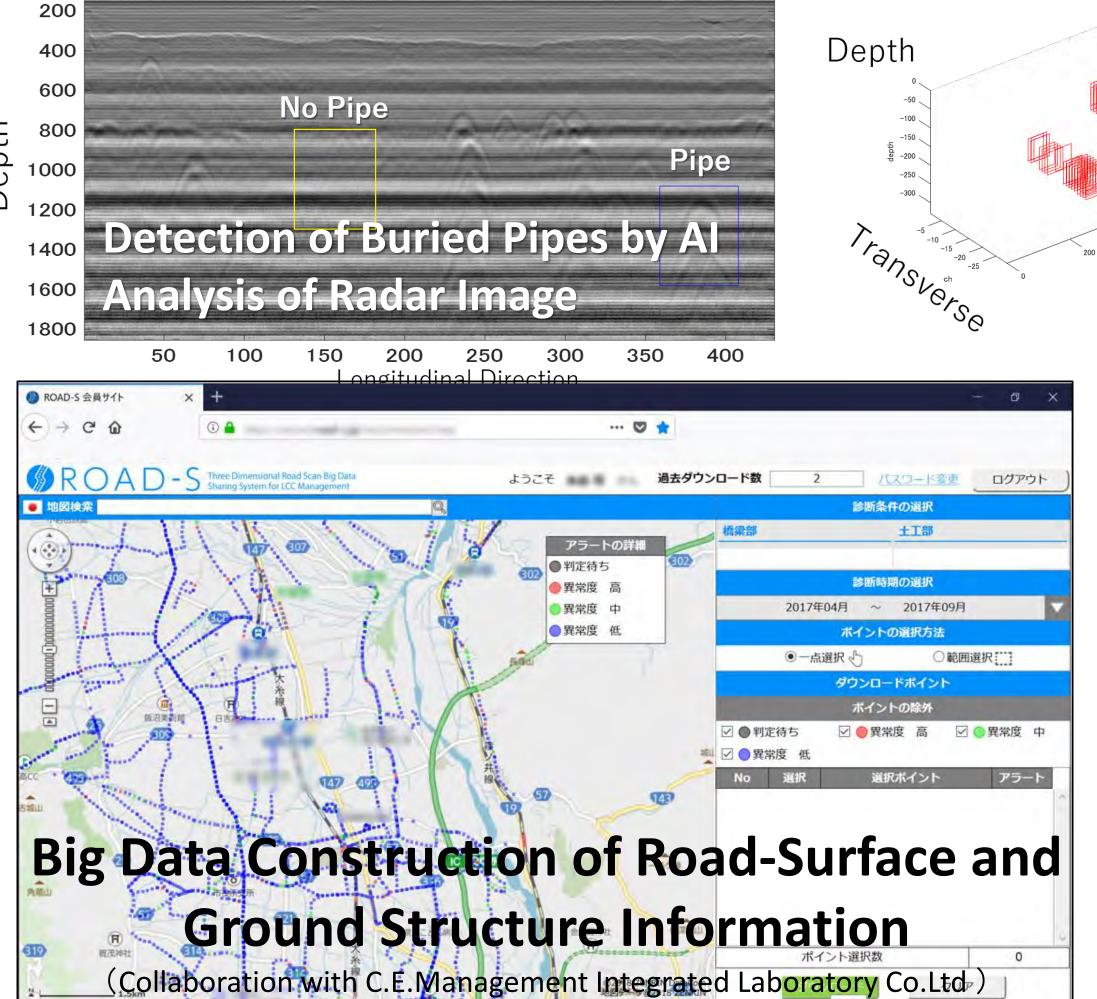


Analysis Time: 1-2 hours/100 km Image High-Speed and Automatic Diagnosis of Road Surface Condition by Artificial Intelligence Analysis of "Line-Sensor Camera"



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

Longitudinal

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

