



SHINTARO ONO Lab.



[Sensing and Visualization for ITS]

Advanced Mobility Research Center (ITS Center)

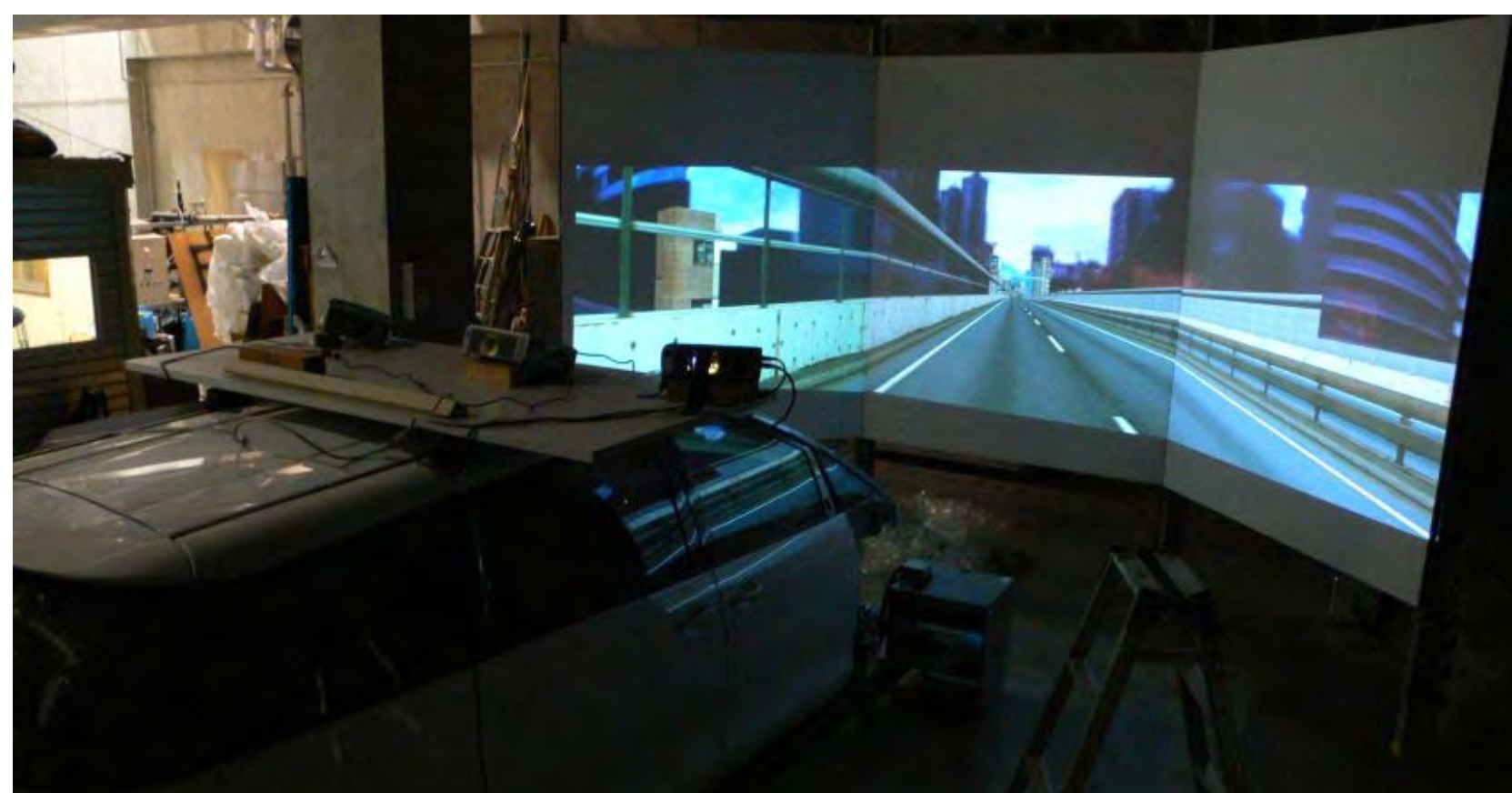
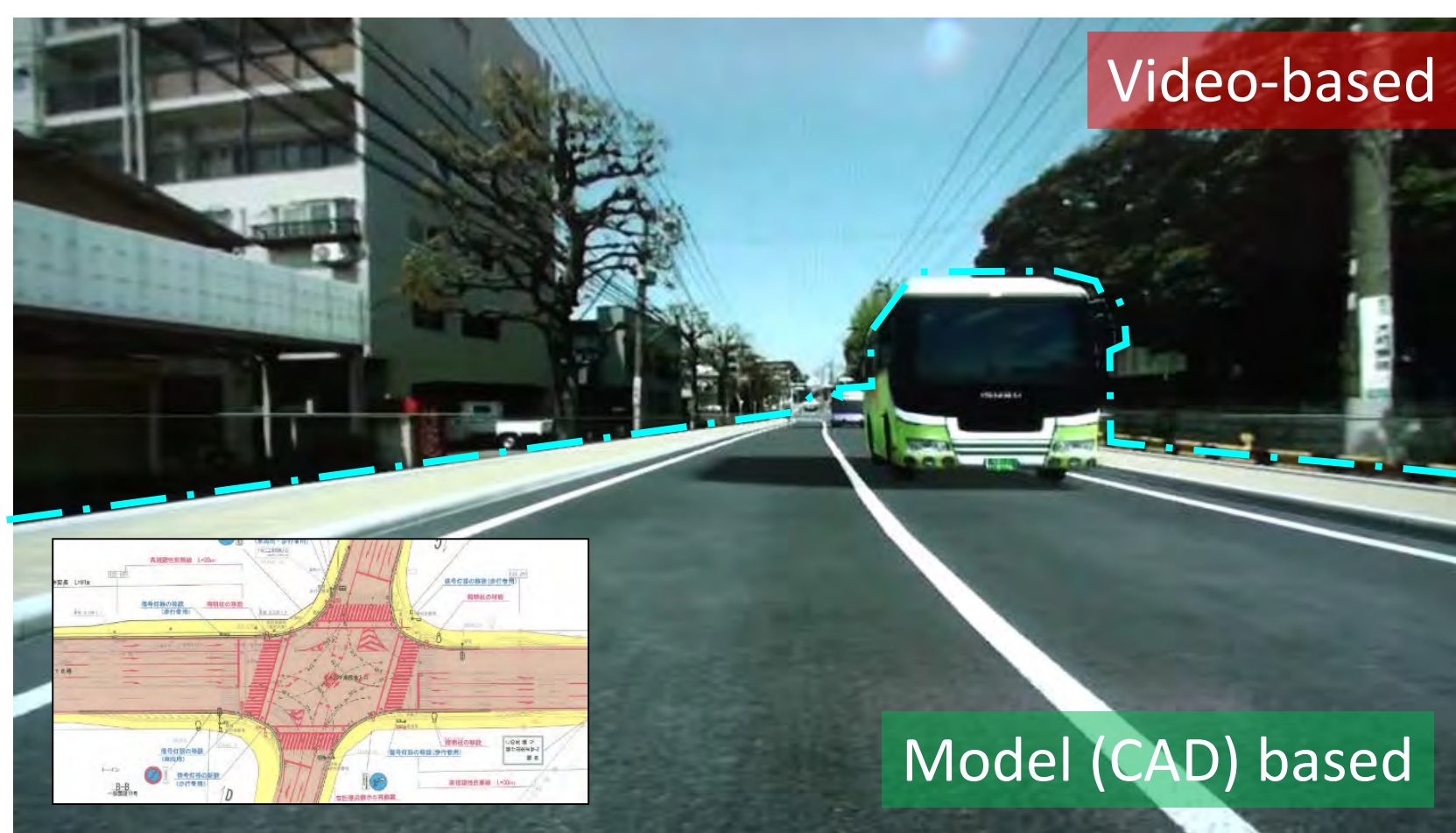
Spatio-Temporal Mobility Informatics
Mechano-Informatic Mobility Engineering

This work was done in (former) Ikeuchi, Oishi, and Suda Labs in collaboration with ITS Labs.

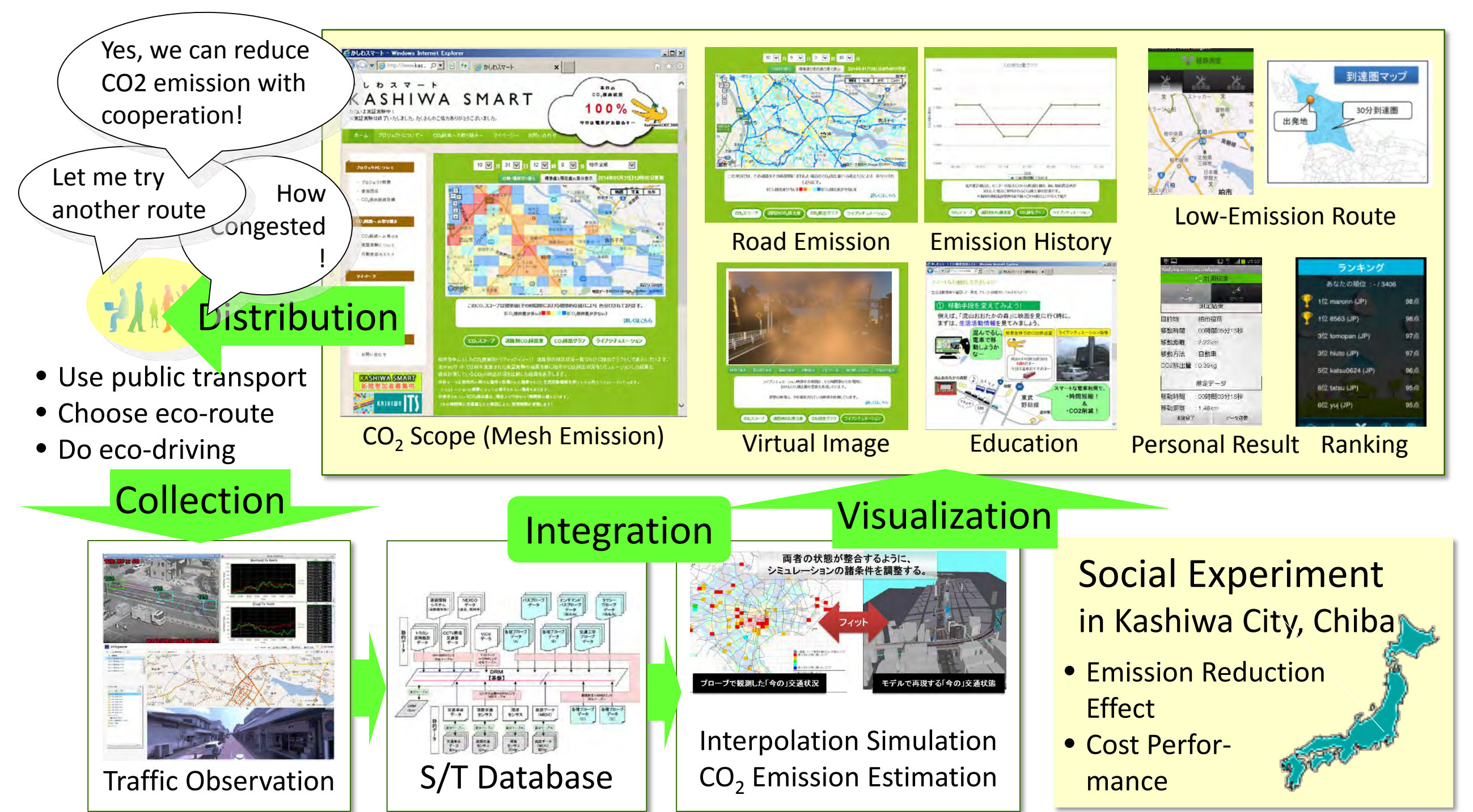
<http://www.its.iis.u-tokyo.ac.jp/~onoshin/>

Visualization
Practical Use
Real Scene Understanding
Information Extraction
Real World Sensing
Modeling

Video-based Driving Simulator



System for Information Collection, Integration, Visualization and Distribution

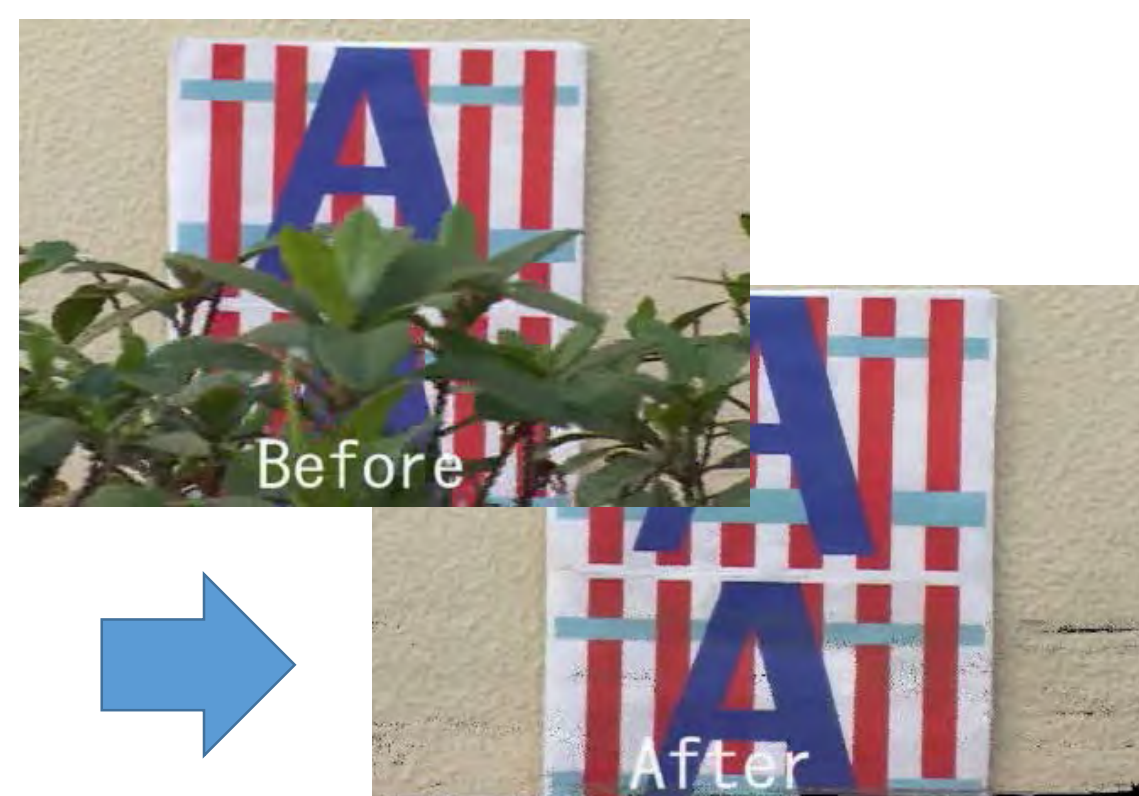


8% Reduction of CO2 Emission by Raising Awareness of Citizens:
Regional Transport Information System for Promoting Eco-Friendly Travel Behavior

Information Extraction from Real Scene

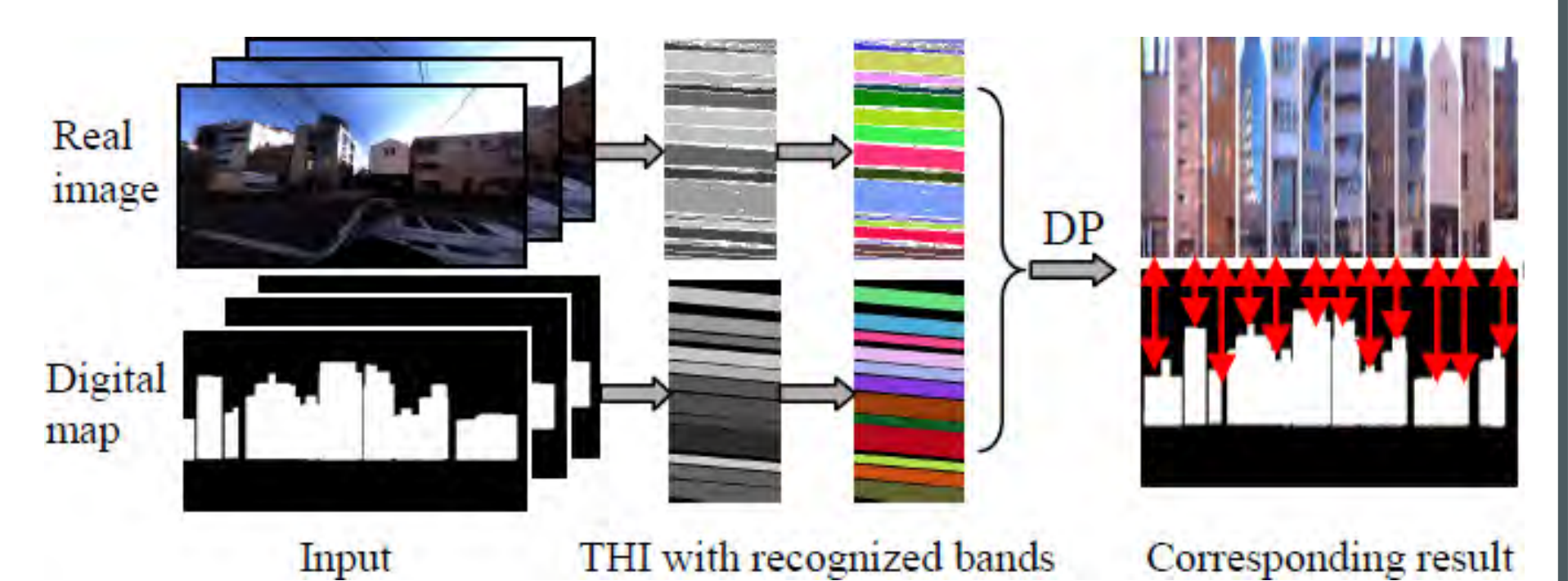


Human Motion Analysis from On-vehicle Camera



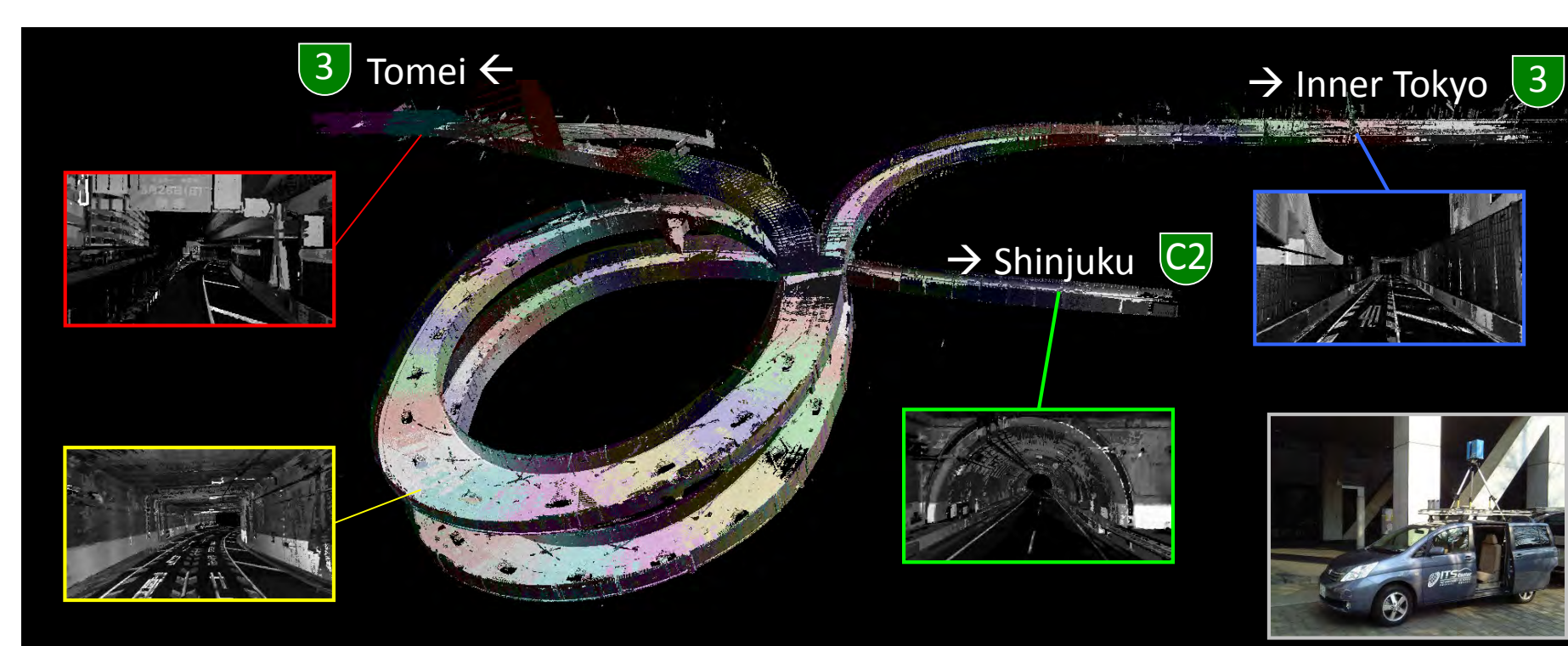
Foreground/Background Separation by Spatio-Temporal Image Analysis

Sequence Data Matching



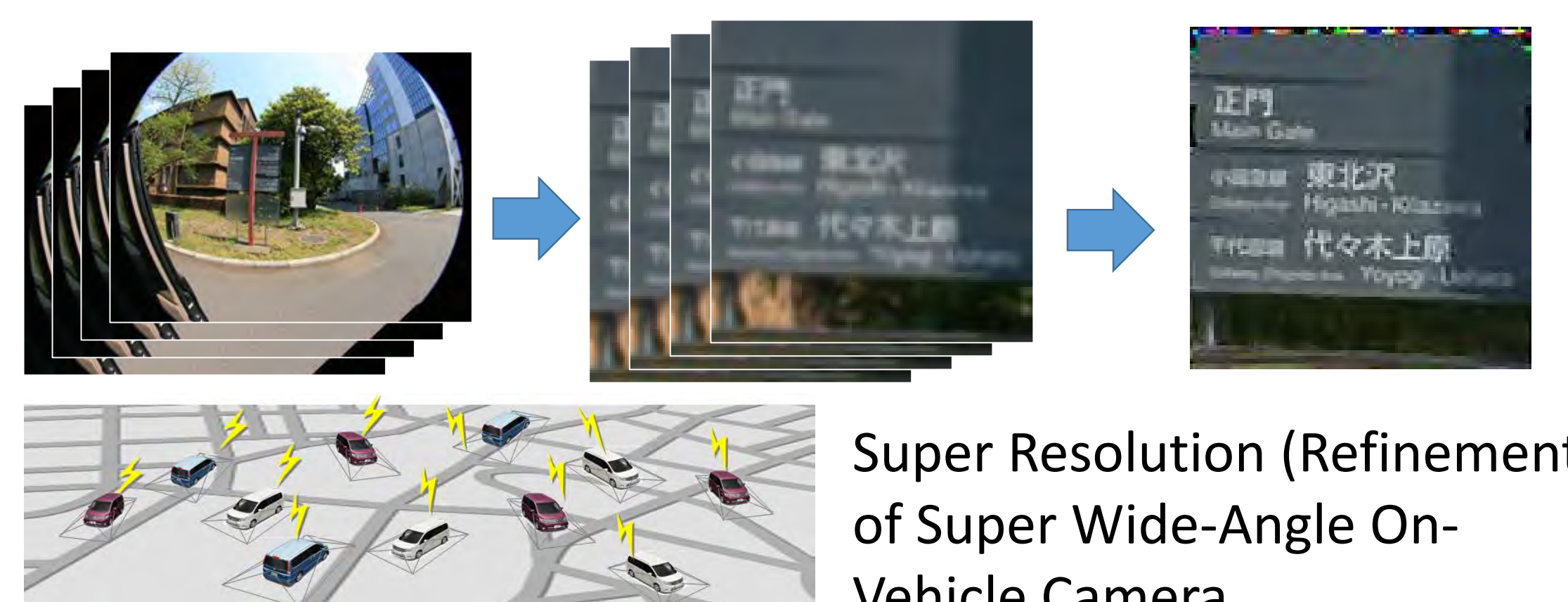
On-Vehicle Video vs. Digital Residential Map

Sensing by Specialized Vehicle



▲ 3D Modeling of Road Structure

Sensing by General Vehicles



Super Resolution (Refinement) of Super Wide-Angle On-Vehicle Camera

▼ Street Panorama before East Japan Earthquake Reconstructed from Driving Video Recorder

