

# KAMIJO LAB.

## Enhanced Mobility and Location Service



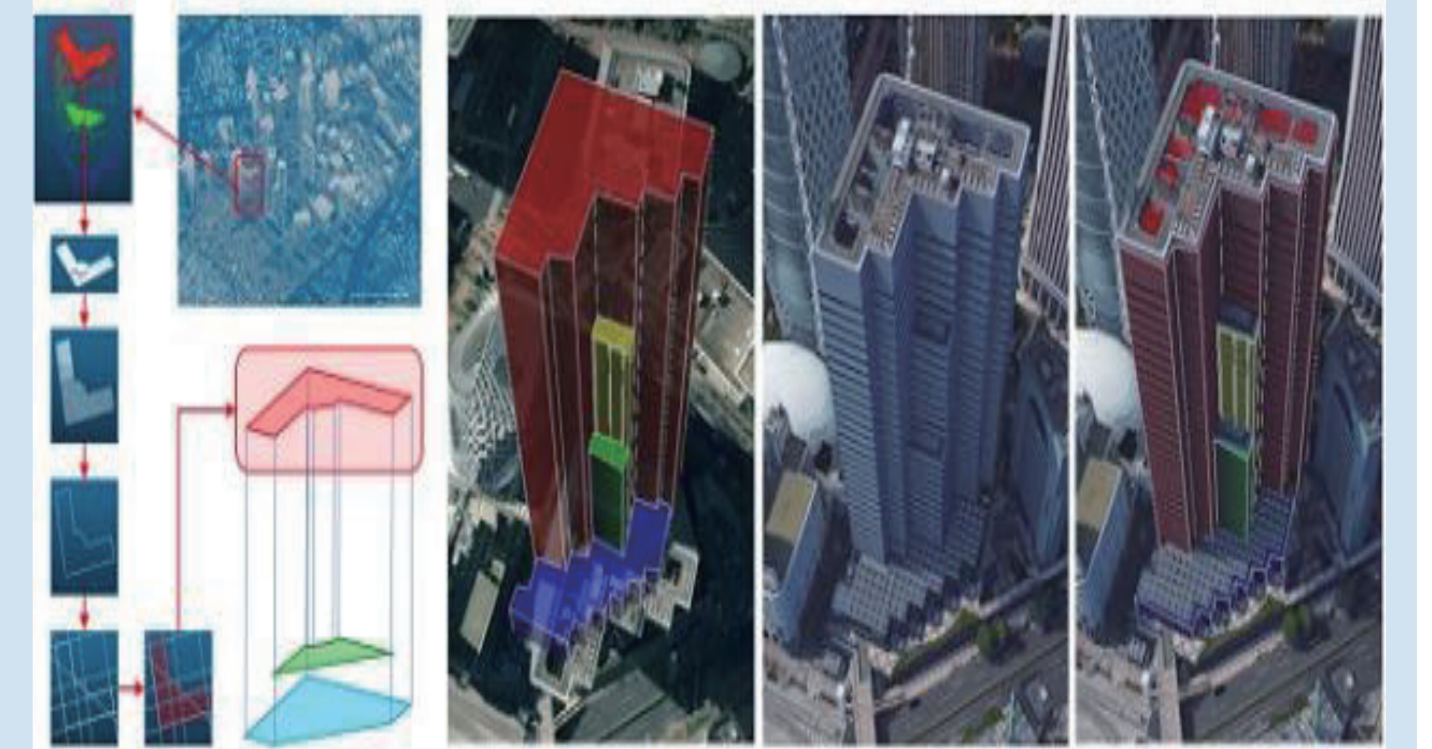
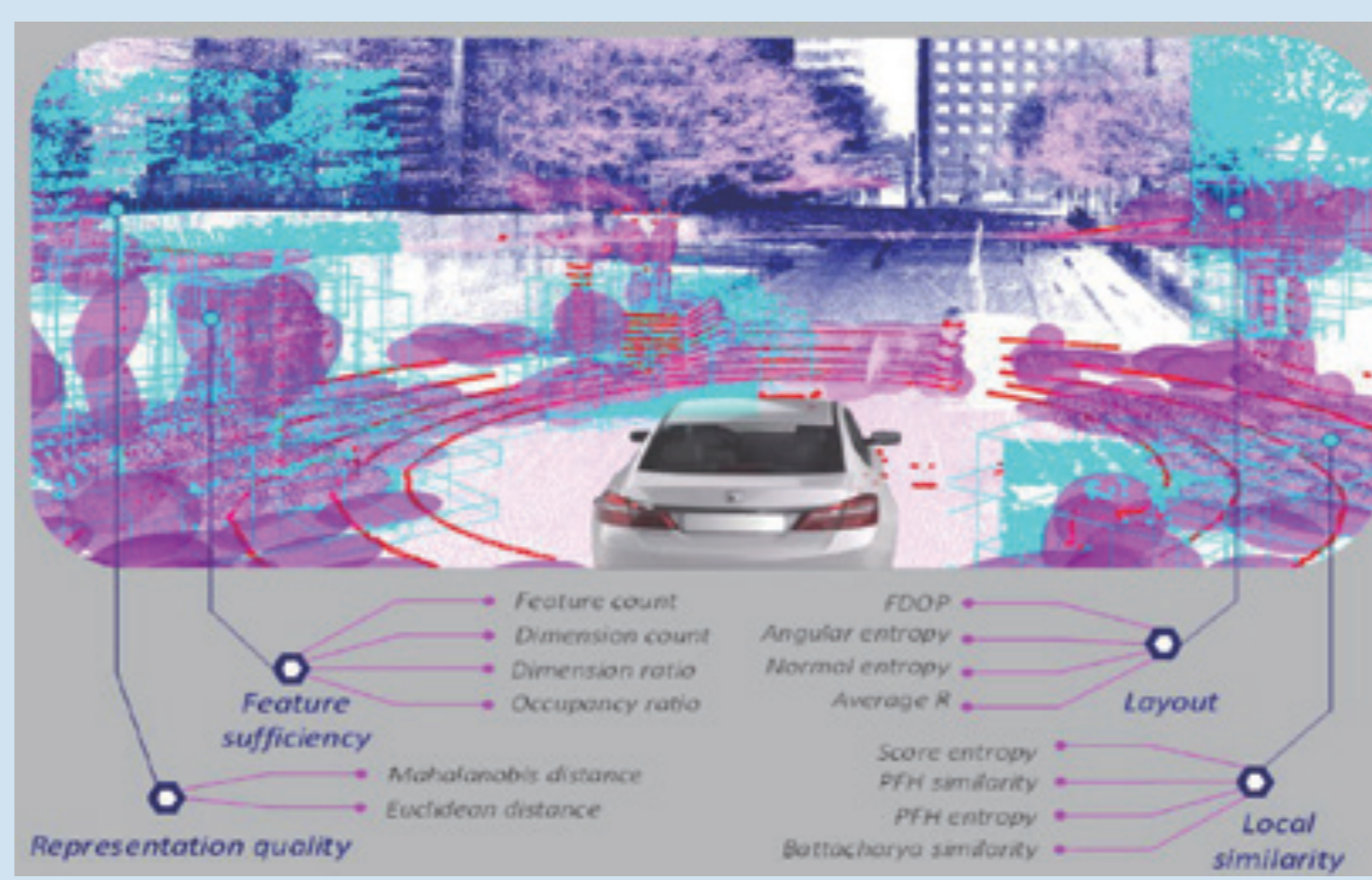
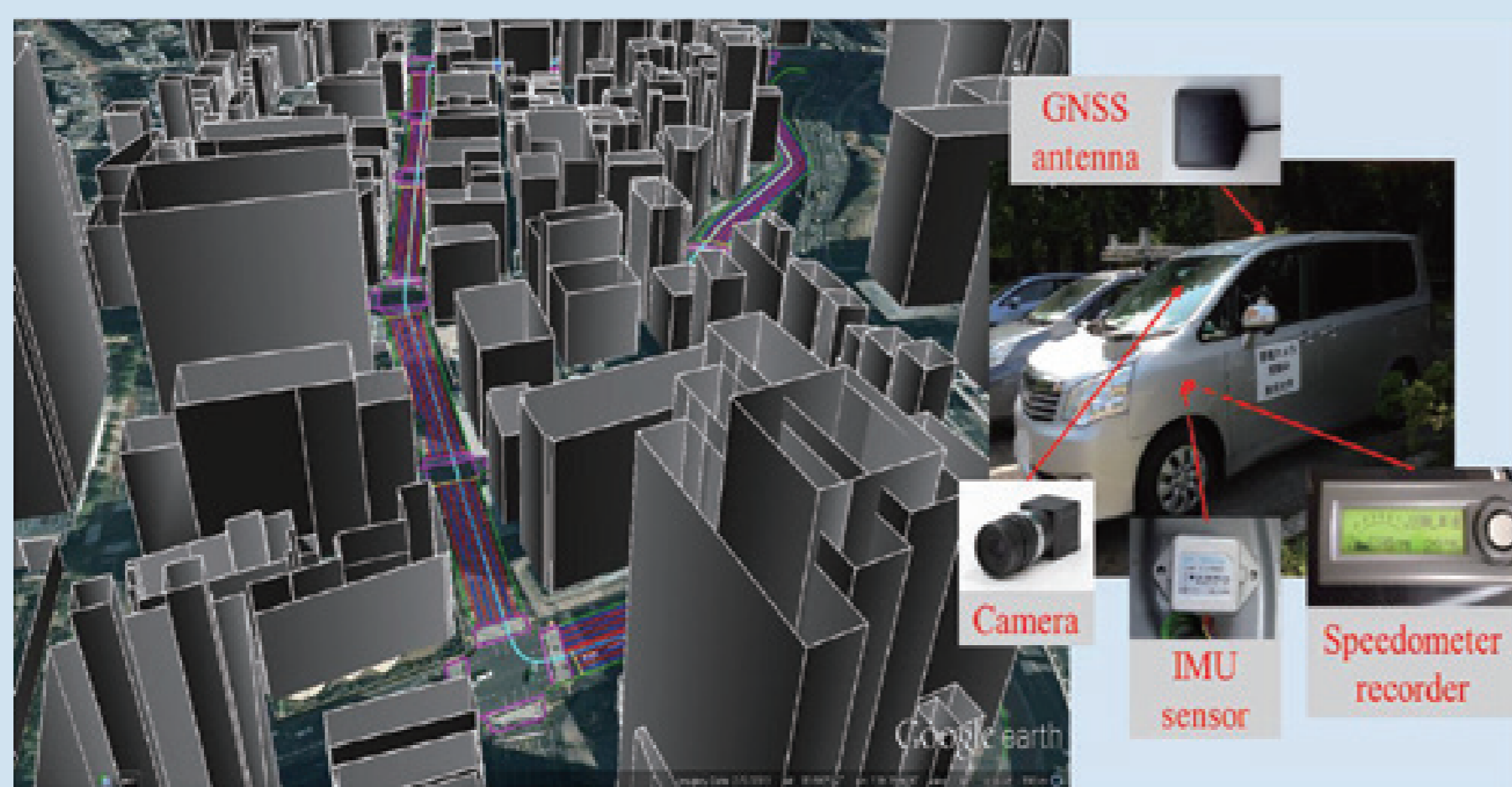
Department of Informatics and Electronics  
Harmonic Mobility Research Center (ITS Center)

Applied Multimedia Information Processing  
Communication Engineering Applied Multimedia Information Processin

<http://kmj.iis.u-tokyo.ac.jp>

### Autonomous Driving

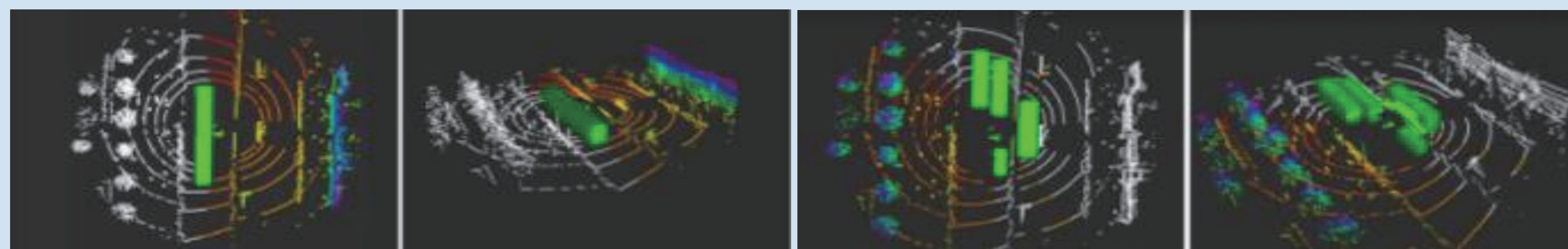
#### Self-localization and 3D Map Generation



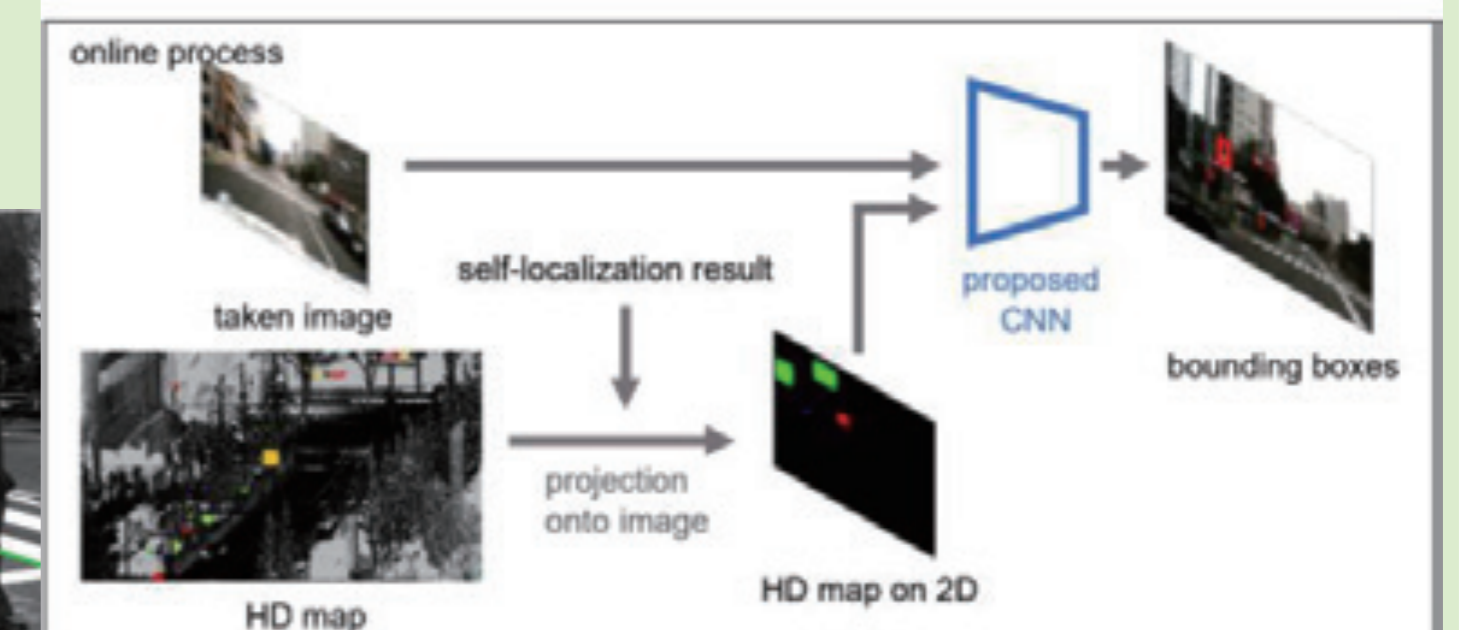
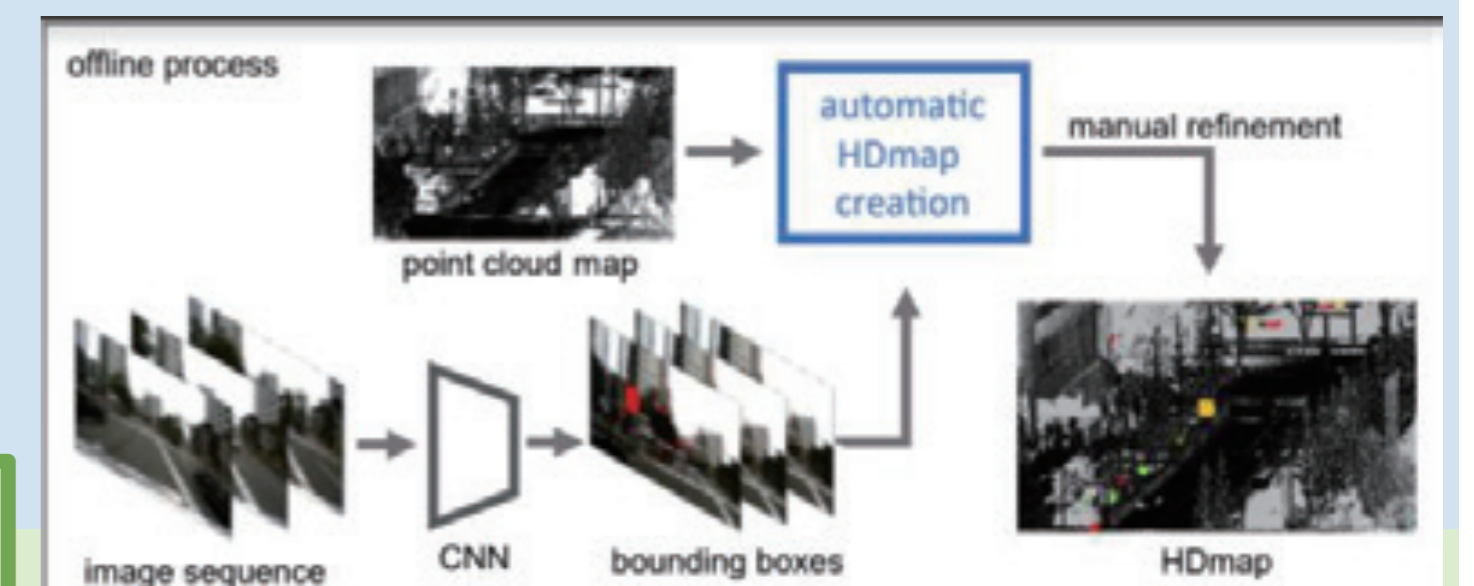
✓ Self-localization based on sensor fusion

✓ Evaluation of 3D map

✓ Generation of 3D map



✓ Self-localization based on 3D map



#### Driving Scene Understanding



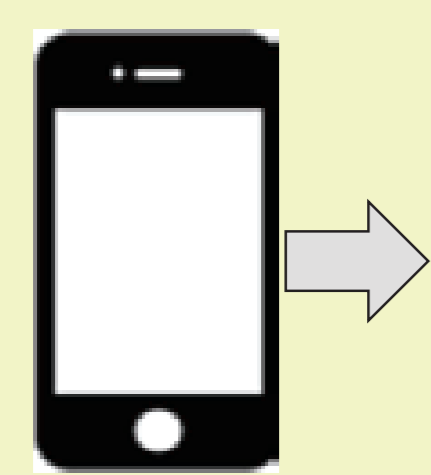
✓ Driving scene risk assessment



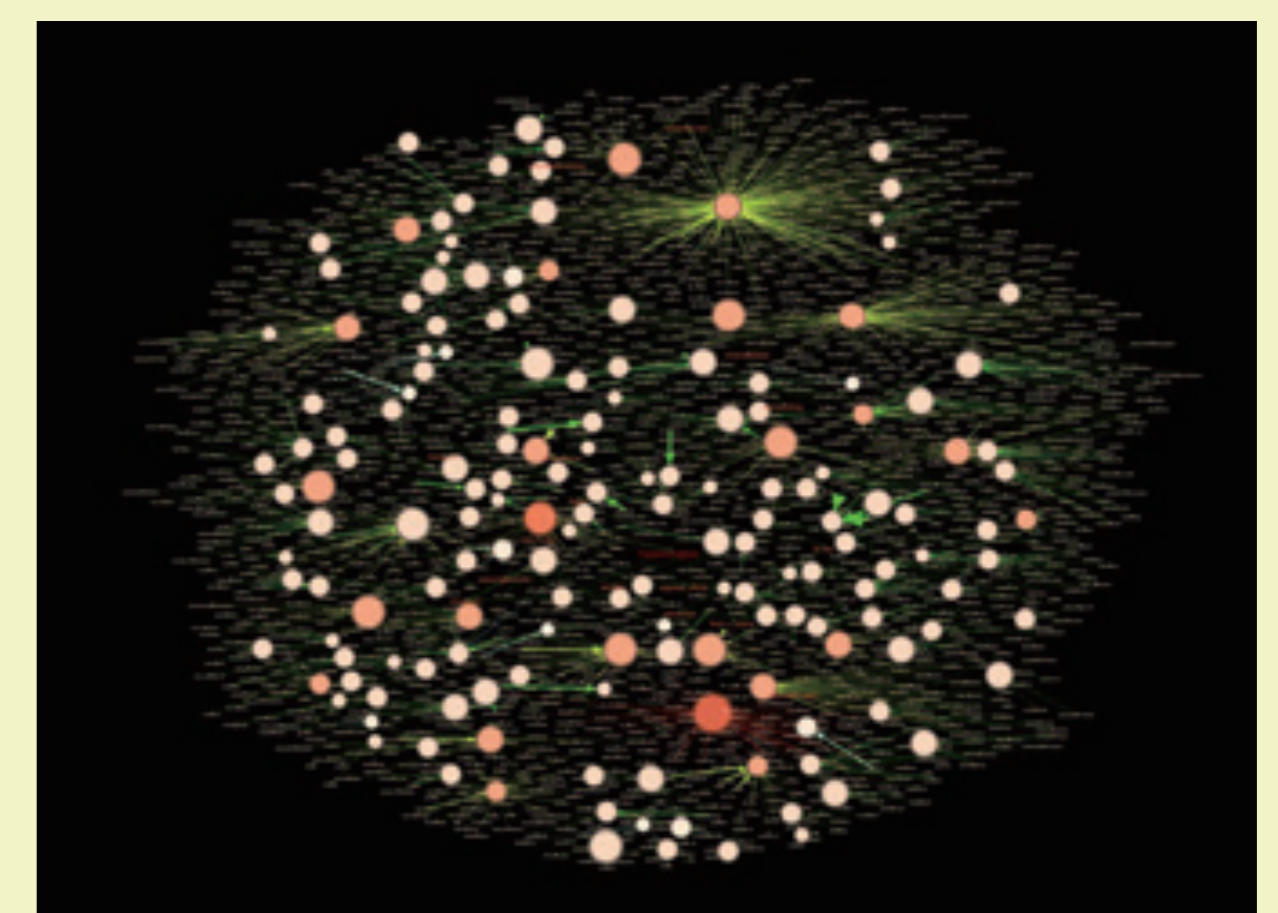
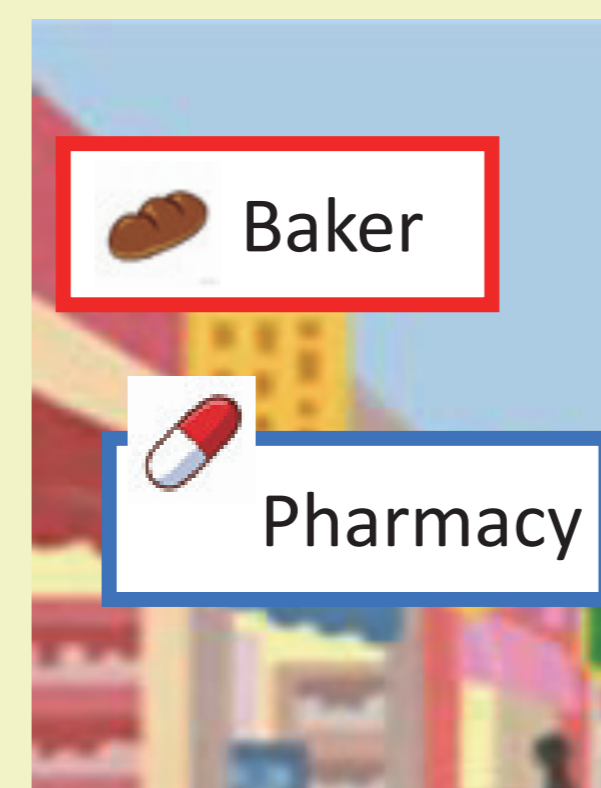
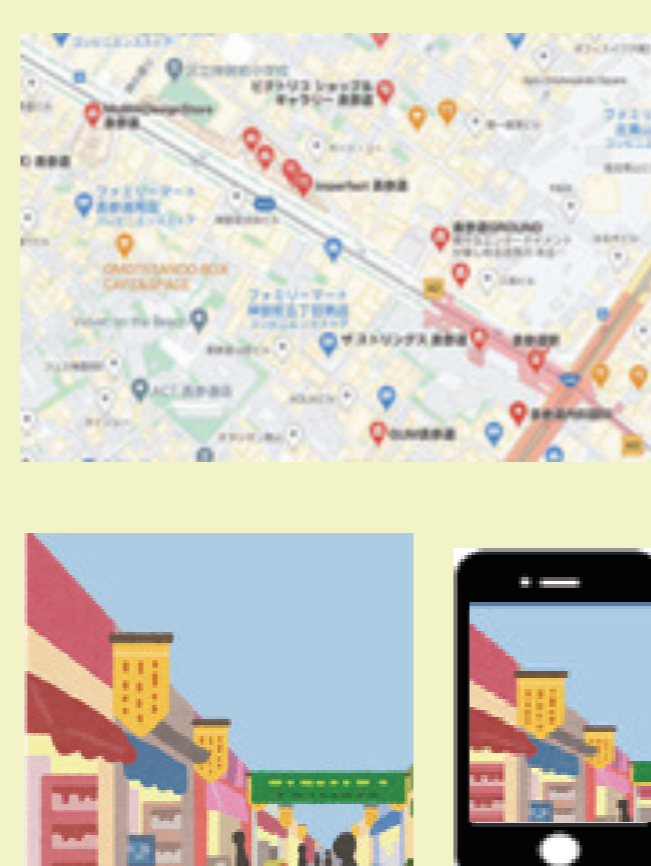
✓ Pedestrian detection and estimation

✓ Road object detection using map

### Marketing



- Acceleration
- Angular velocity
- Magnetic compass
- Atmospheric pressure



✓ Mobile device-based services  
• Indoor behavior understanding

• Tourist service

✓ Market strategy by SNS analysis

At Kamijo Laboratory, we are shaping the future of mobility with state-of-the-art location and scene understanding technologies, while also driving innovation in marketing research