ITS Center
THE UNIVERSITY OF TOKYO
次世代モビリティ研究センター

SAKAI LAB.

[Utilization and Implementation of ITS in Local Area]

Advanced Mobility Research Center (ITS Center)

Transportation Policy, Intelligent Transportation System (ITS)
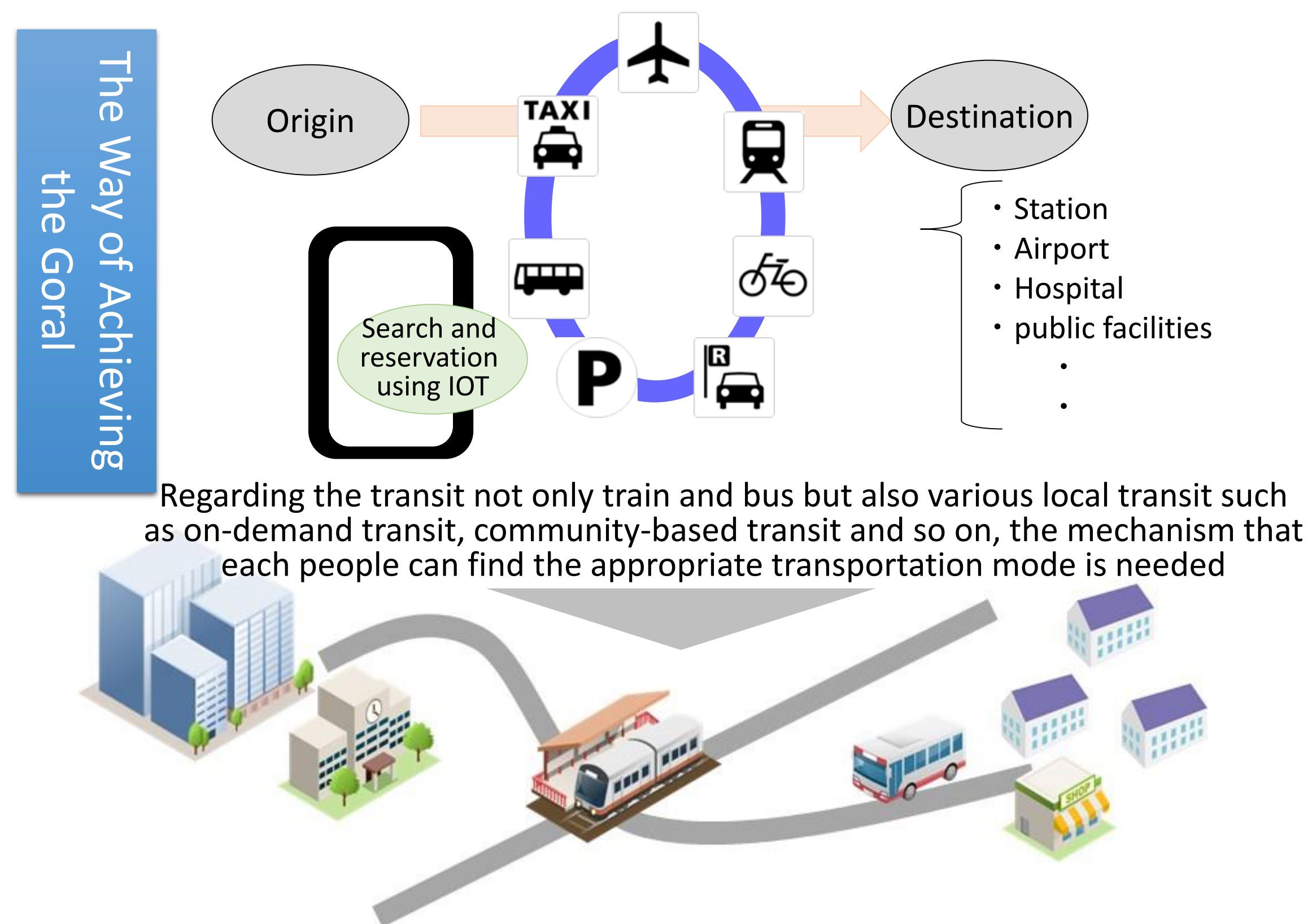
Department of Civil Engineering, Graduate School of Engineering

Practical Research for Utilization and Implementation of Intelligent Transportation System in Local Area
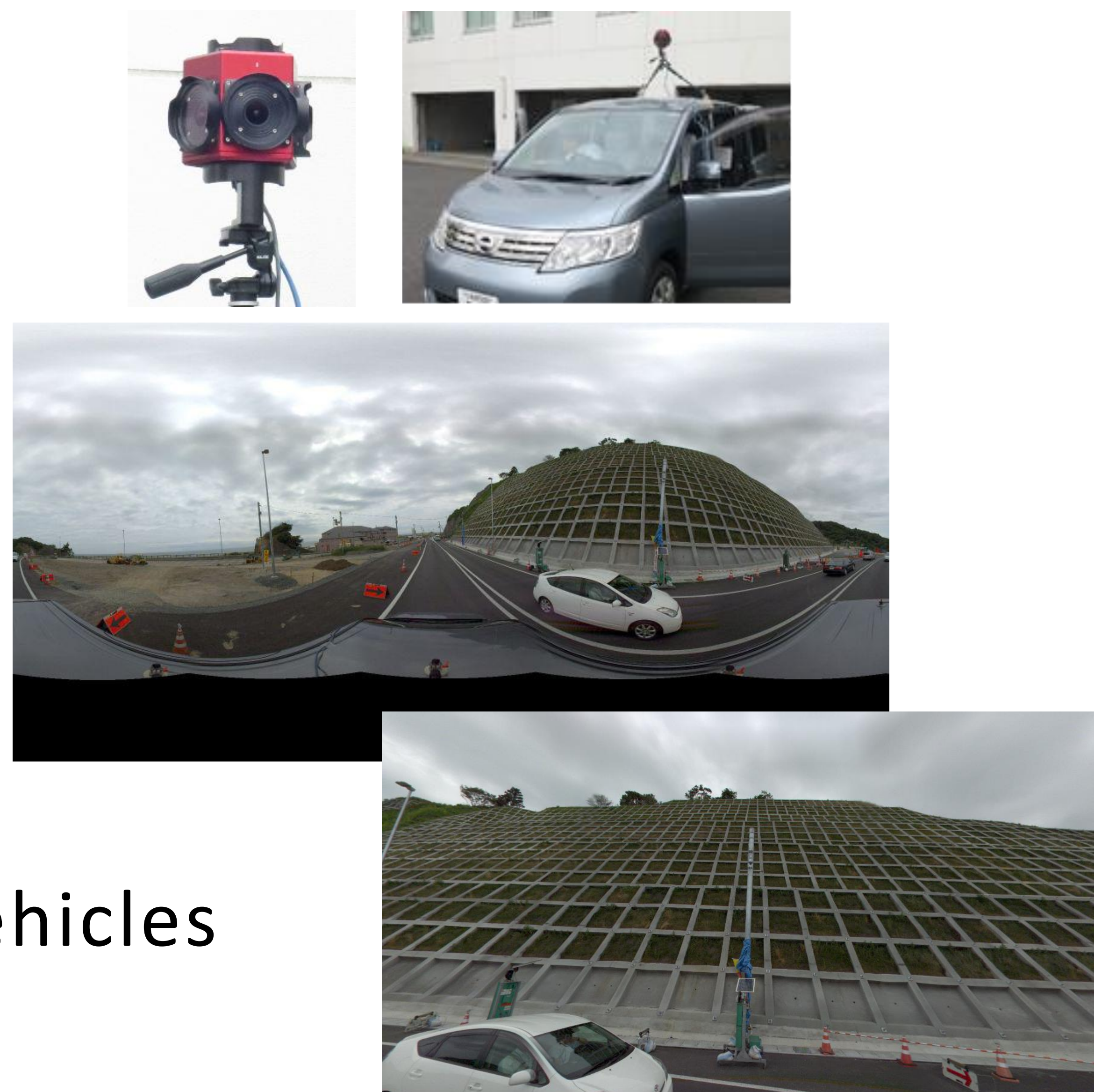
We are conducting the practical research activities on real field for implementing the technologies of intelligent transportation systems (ITS) in real world.
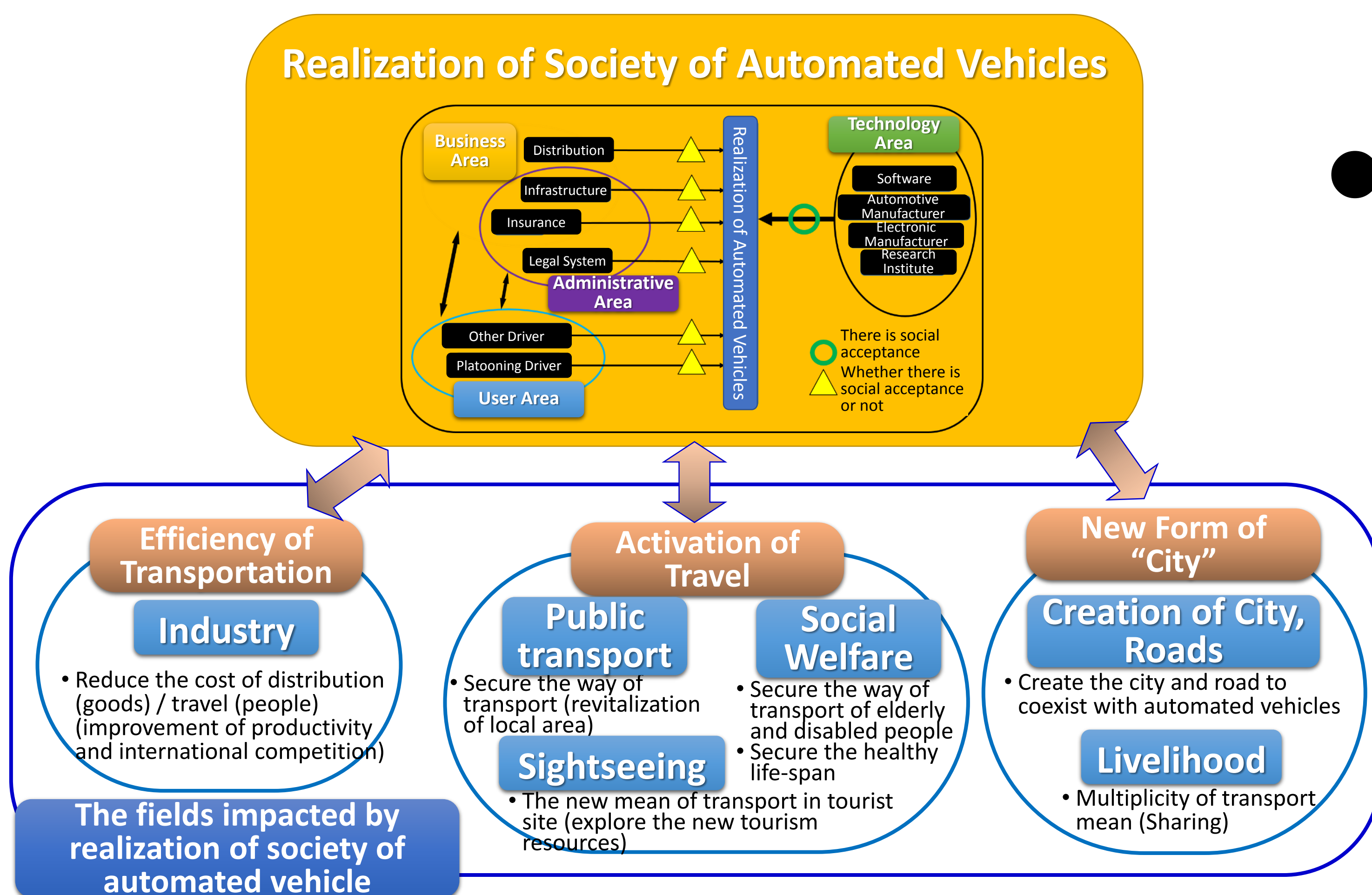
● Provision of Information on Multimodal Transportation

Goal Realize the society which supports safe, secure, comfort and seamless transportation for various people with no dependence on transport mode

The Way of Achieving the Goal

Origin — TAXI — Destination
- Station
- Airport
- Hospital
- public facilities

Search and reservation using IOT

Regarding the transit not only train and bus but also various local transit such as on-demand transit, community-based transit and so on, the mechanism that each people can find the appropriate transportation mode is needed

● Utilization of Omnidirectional Video in Road Maintenance

● Social Impact of Automated Vehicles

Realization of Society of Automated Vehicles

Business Area
- Distribution
- Infrastructure
- Insurance
- Legal System

Administrative Area

Technology Area
- Software
- Automotive Manufacturer
- Electronic Manufacturer
- Research Institute

Realization of Automated Vehicles

- Other Driver
- Platooning Driver

User Area

There is social acceptance
Whether there is social acceptance or not

Efficiency of Transportation

Industry
- Reduce the cost of distribution (goods) / travel (people) (improvement of productivity and international competition)

Activation of Travel

Public transport
- Secure the way of transport (revitalization of local area)

Social Welfare
- Secure the way of transport of elderly and disabled people
- Secure the healthy life-span

Sightseeing
- The new mean of transport in tourist site (explore the new tourism resources)

New Form of "City"

Creation of City, Roads
- Create the city and road to coexist with automated vehicles

Livelihood
- Multiplicity of transport mean (Sharing)

The fields impacted by realization of society of automated vehicle

● Analysis of Transportation Big Data

Institute of Industrial Science, The University of Tokyo