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

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

  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 person can find the appropriate transportation mode is needed

• Social Impact of Automated Vehicles

• Analysis of Transportation Big Data

Realization of Society of Automated Vehicles

The fields impacted by realization of society of automated vehicle

Efficiency of Transportation
  Industry
    • Reduce the cost of distribution (goods) / travel (people)
    • Improvement of productivity and international competition

Activation of Travel
  Public transport
    • Socially accessible transport (utilization of local area)

Social Welfare
  Sightseeing
    • The maintenance of transport in tourist area (exploitation of the new tourism)

Creation of City, Roads
  Livelihood
    • Maturation of transport mean (sharing)

New Form of “City”

Monitoring tool of traffic situation in Kashiwa city

Kashiwa St.
Kashiwa no ha Campus St.
Kashiwa City

Business Area
Administrative Area
User Area
Technology Area
Distribution Infrastructure
Insurance
Legal System
Other Driver
Platooning Driver
Software
Automotive Manufacturer
Electronic Manufacturer
Research Institute

Realization of Automated Vehicles

There is social acceptance
Whether there is social acceptance or not