SUZUKI LAB.

[Implementation and Deployment of ITS and Automated Driving]

Department of Human and Social Systems / Advanced Mobility Research Center (ITS Center)

Transport Policy

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Recognized the change of social issues such as mobility for elderly people, energy preservation, resilience against hazards and national financial deterioration, and the change of technical circumstance such as progress of ICT, big/open data, advanced/variety of mobility and improvement of vehicles safety, research on transport policy for implementation and deployment of the Intelligent Transport Systems (ITS) and Automated Driving (AD) towards advanced road traffic has been conducted.

Research on policies for traffic problem solutions through local ITS deployment

- Activities as a part of "Kashiwa ITS Promotion Council" consist of local community, citizens and others, which is headed "Kashiwa ITS Smart-city"
- Participation in particular, such as utilization of road traffic information, implementation of new technologies such as AD, revitalization of public transport and central city areas, etc.

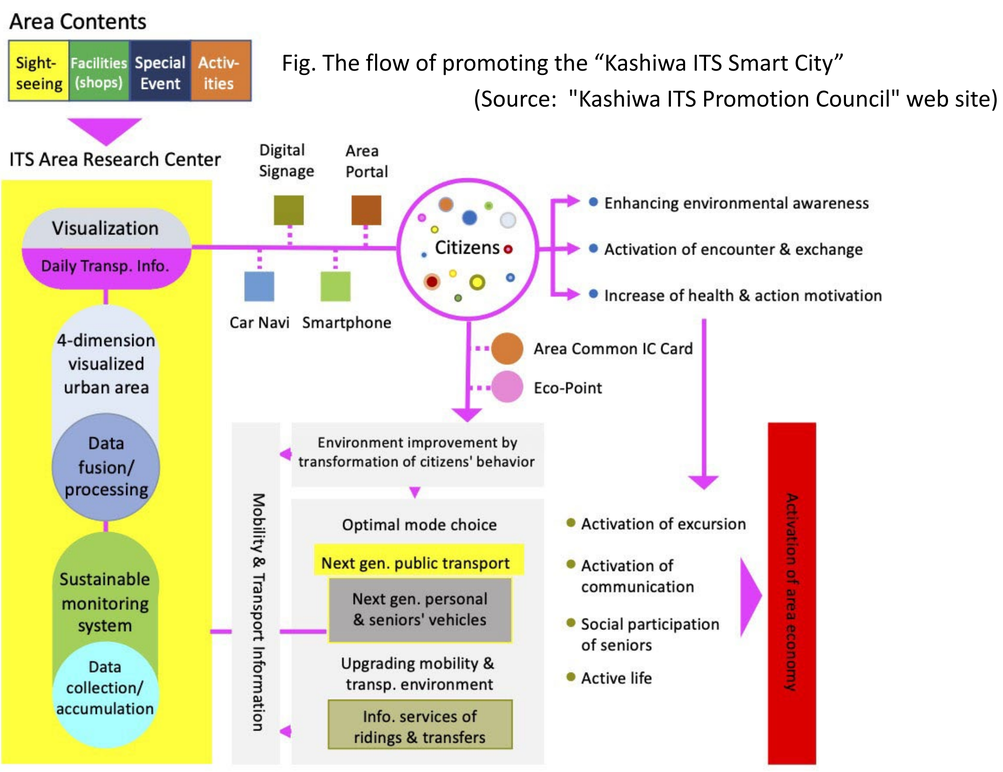

Fig. The flow of promoting the “Kashiwa ITS Smart City”
(Source: "Kashiwa ITS Promotion Council" web site)

Road transport policy towards C-ITS realization

- Research on evolution of services and cross-cutting challenges for implementations of the Cooperative ITS, on which various information of people, goods, mobiles, infrastructure and others are collected, shared and utilized

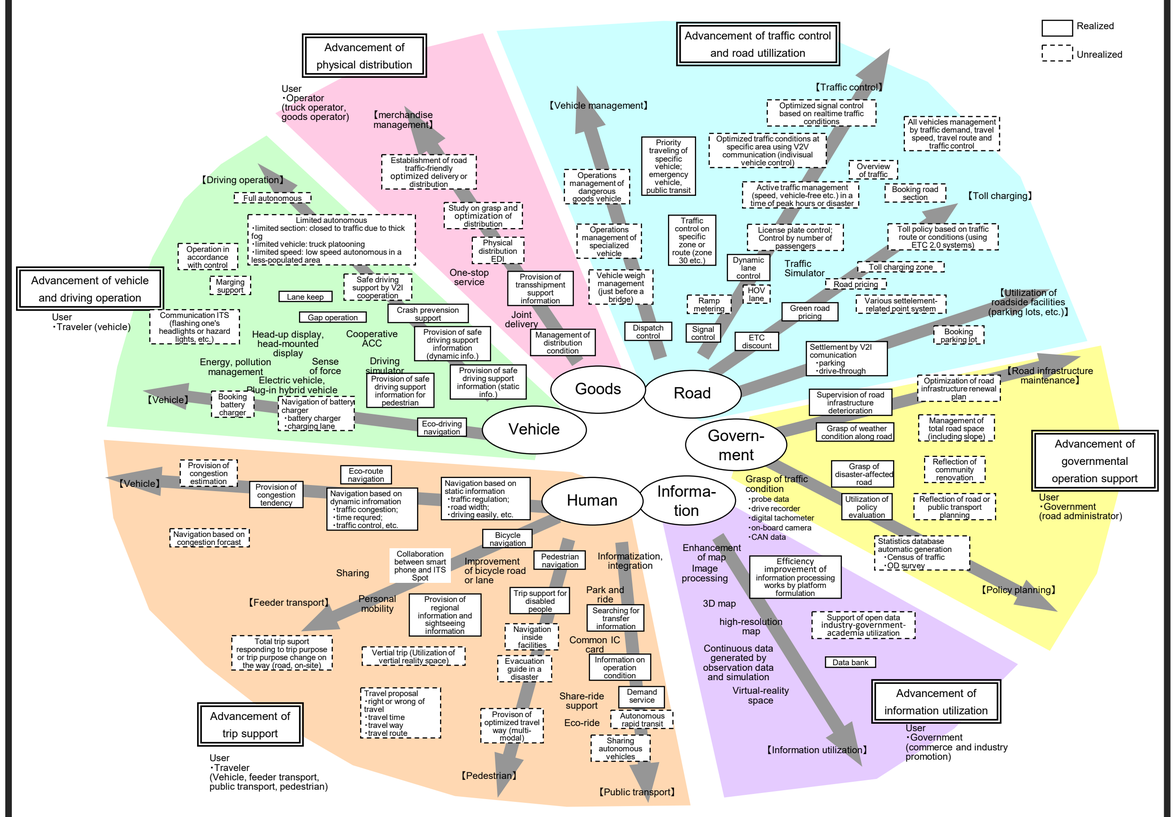

Fig. System diagram of C-ITS Services

Research on implementation and deployment of AD

- Research on various challenges that need to be solved for the implementation and deployment of AD technology and services.

  - Research on the road space design that constitutes the driving environment of AD vehicles and on measures for parking vehicles
  - Research on methods for assessing the impact of AD vehicle and the cooperative ITS and infrastructure measures that support it on surrounding traffic
  - Research on socio-economic impact assessment of implementation and deployment of AD technology and services
  - Research on the business model of AD services

Collaboration & Social return activities

- Organizing "ITS Seminar" to promote the deployment of ITS that meet the local needs
- Hosting the Research Committee (RC66) to study and discuss the implementation of parking ITS such as automated valet parking
- Supporting human resource development of engineers in developing countries through the JICA Knowledge Co-Creation Program on “Practical Technology on ITS”

Photo : ITS Seminar in Saitama (Sep.2021)