HIRAIWA LAB.

Social Implementation of ITS and Automated Driving

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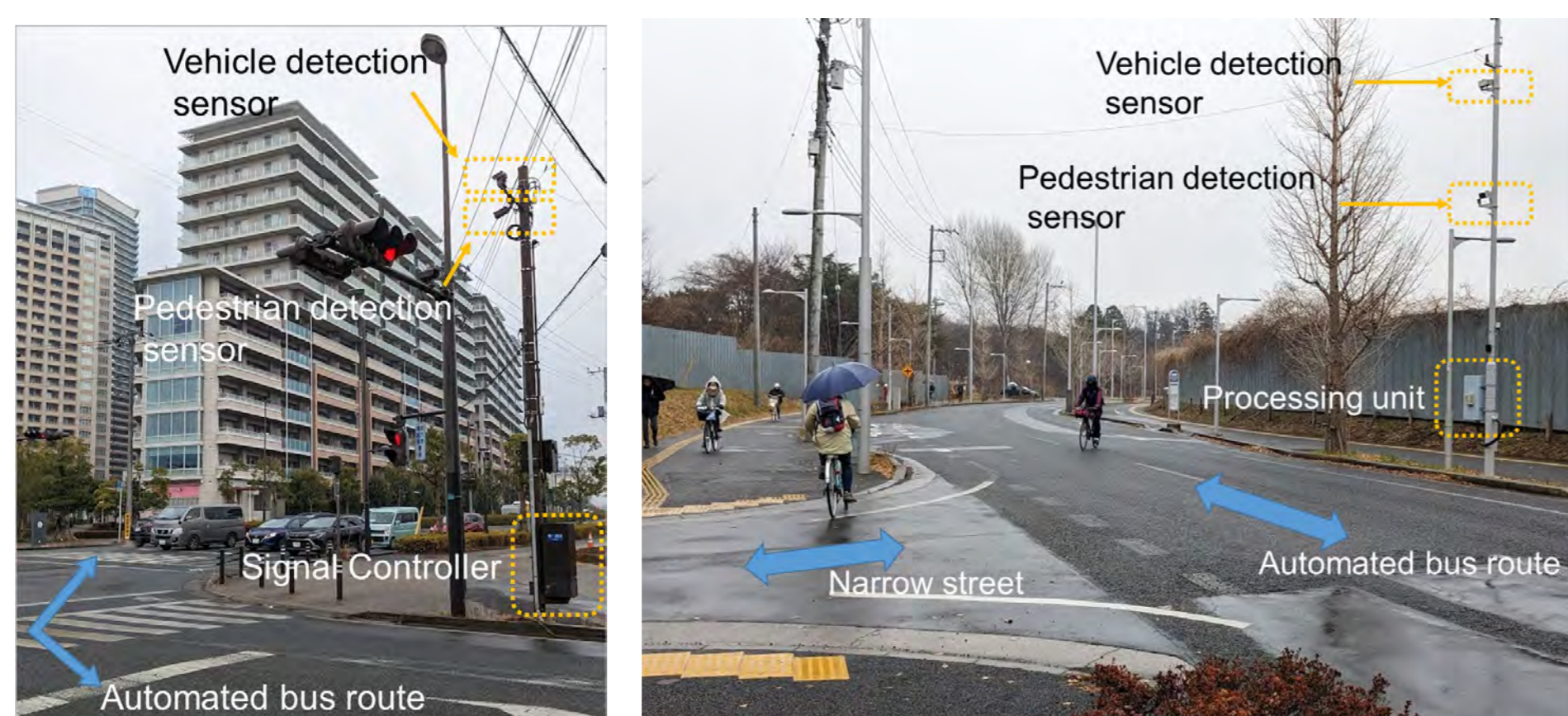Advanced Mobility Research Center (ITS Center)

Transport Policy

Department of Civil Engineering, Graduate School of Engineering
Interfaculty Initiative in Information Studies

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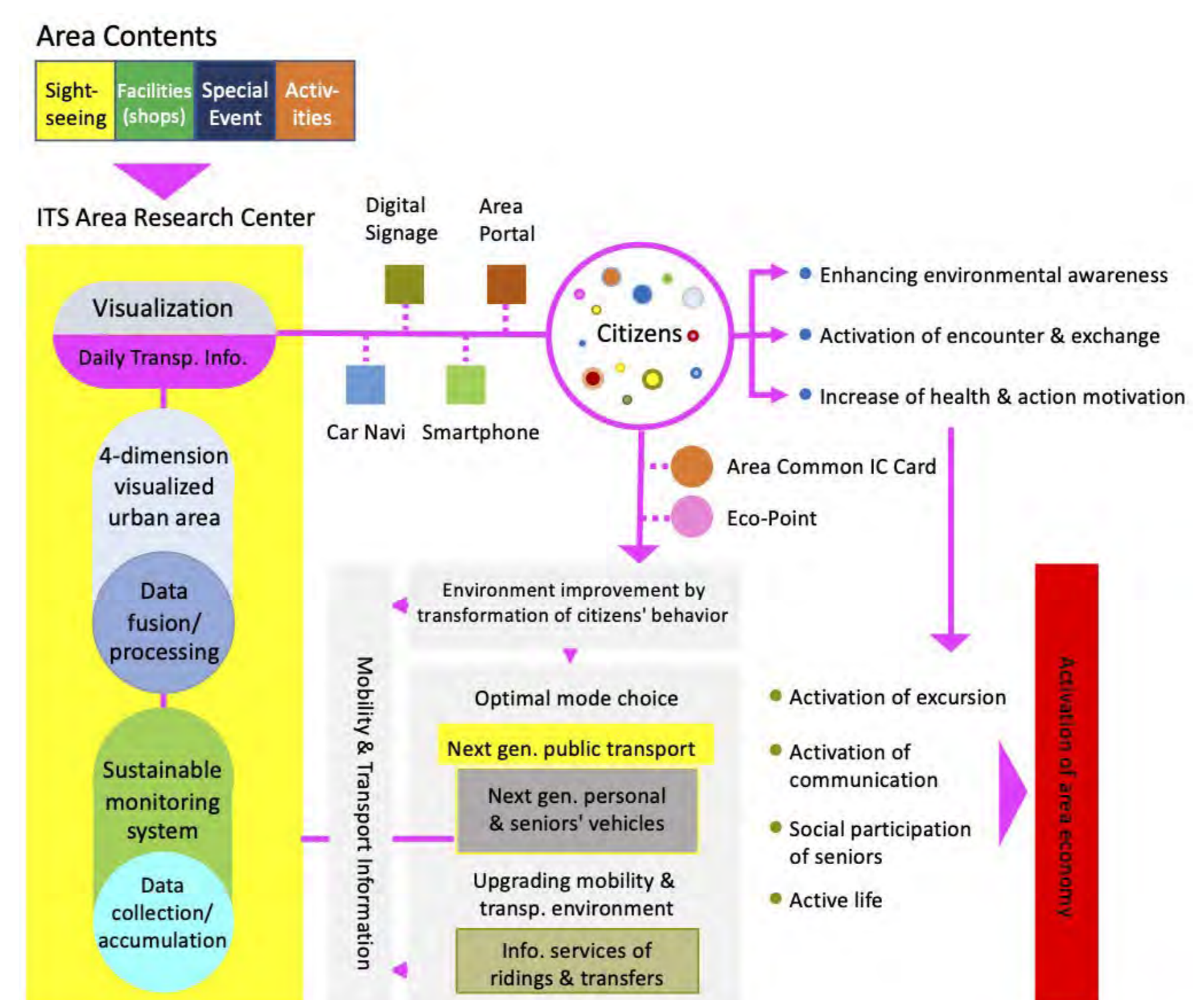
Research on social implementation of AD

・ Research on various challenges that need to be solved for the social implementation 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

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【Research on infrastructure to support automated driving bus】

Research on policies for traffic problem solutions through local ITS implementation

・ 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.

【The flow of promoting the "Kashiwa ITS Smart City"】

(Source: "Kashiwa ITS Promotion Council" web site)

Collaboration & Social return activities

・ Organizing "ITS Seminar" to promote the deployment of ITS that meets 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"

【 ITS Seminar in Tochigi (Aug.2023) 】

【RC-66 Field Survey】

【JICA Program on ITS】

Institute of Industrial Science, The University of Tokyo