

HIRAIWA LAB.

Social Implementation of ITS and Automated Driving



Department of Human and Social Systems
Harmonic Mobility Research Center

Transport Policy

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

HIRAIWA LAB. is conducting research on transportation policies that pertain to the social integration of ITS technology and automated driving advancements. This research focuses on enhancing road transportation by leveraging developments in automated driving, improvements in information and communication technology, as well as the collection and use of big data and open data. Additionally, it considers social factors such as ensuring mobility for everyone, enhancing disaster resilience, addressing the challenges of an aging population, and tackling labor shortages.

Research on social implementation of automated driving

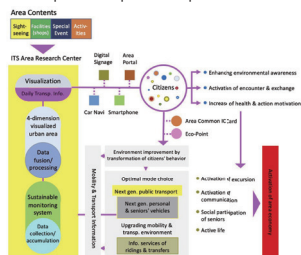
- Research on various issues that need to be resolved for the social implementation and diffusion of automated driving technologies and services
 - Research on the road space that constitutes the driving environment for automated vehicles
 - Research on the effectiveness of infrastructure measures such as parked vehicle countermeasures to support automated vehicles and their impact on surrounding traffic
 - Research on social acceptability for social implementation of automated driving technologies and services



[Demonstration experiment of rubber poles to prevent parked vehicles and installation of automated bus markings, etc.]

Research on ITS technology to solve regional issues

- Participation in the Kashiwa ITS Promotion Council, which is working with the local community and citizens to create a "Kashiwa ITS Smart City" in Kashiwa City, which has been designated as an ITS Experimental Model City.
- Research on the implementation of new technologies, especially automated driving, and the use of ITS technology for urban development and public transportation issues.



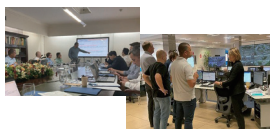
[The flow of promoting the "Kashiwa ITS Smart City"]
(Source: "Kashiwa ITS Promotion Council" web site)

Industry-academia-government collaboration and social contribution activities

- Planning and operation of "ITS Seminars" to promote the spread of ITS in accordance with local needs.
- Participation in the "PIARC (World Road Association)" and the "Cross-ministerial Strategic Innovation Promotion Program (SIP)", cooperation with related government ministries, etc., to promote social implementation and international collaboration in the field of ITS and mobility
- Supporting human resource development for engineers in developing countries through ITS training program at JICA



[ITS Seminar in Fukui, October 2024]



[PIARC TC2.5 meeting in Seville, Spain, November 2024]



[ITS training program at JICA, June-July 2024]

