Summary of SIP-adus project (FY2015)	
Name of the project	Basic design for the next generation public transportation system
Responsible Organization	UTMS Society of Japan
Name: Hiroshi Kato	
Object of the Project	
Tokyo Olympic and Paralympic public transport has been disco public transport increases as a	ortation system that utilizes public buses is required to cope with traffic demand during the 2020 Games and after the urban development which follows the 2020 Olympics. On the other hand, ontinued one after another in local areas due to the population decrease, but the importance of means of transportation for the elderly in Japan which reached a super ageing society. Therefore for the development of the next-generation public transport system which has economic rationality
Project Summary	
 operation during the rush hour 1 2. Design of the function plan for We designed seven new function model system. The summaries of a) Bus priority control by the 70 an infrared beacon installed a crossing upper reaches spot a control. b) Crossing passage support for on board unit performs signal c) Bus priority control effect core 	n, we carried out a survey with bus companies and an investigation about the bus priority control bus operation to find problems of the current PTPS(Public Transportation Priority Systems). r new systems ns that utilized a recent ITC technology and, of these, decided to implement three functions in a f the three functions are as follows. 00MHz band wireless communication: The current system receives a bus priority request from at the crossing. Upper reaches. The new system receives a bus priority demand at the time of and a crossing approach by 700MHz zone wireless communication to enhance the effect of priority the bus driver: We offer signal information to the bus on board unit from the new system, and the l passage support, red light slowdown support for the bus driver. offirmation function: At the time of passing through the crossing, an on board unit estimates the rol and notify it to the driver to grasps the operation state.

Future plan

1. Validation test of the basic design by the simulation

We will validate the basic design using a traffic simulator and prototype.

2. Field examination with the model system

We will build the model system based on the basic design, and verify functions, performances, etc.