Summary of SIP-ADUS project (FY2015) Name of the project A research for improvement of quick transportability, time reliability and safety of Advanced Rapid Transit. Responsible Organization Pacific Consultants Co., Ltd. Name Daisuke Oshima, Akira Mitsuyasu Object of the Project Public Transportation Priority System (PTPS) is introduced throughout Japan as means to improve quick transportability and time reliability roote bus running on a road where general vehicles are running together. However, there are some problems in the current PTPS. For instatu traffic signal is controlled based on bus detection information only at one upstream point of an intersection and information reliated to operational status of PTPS is not provided to the bus drivers. Therefore, there are cases where the sufficient effect of PTPS connots be obtain in this project, the basic requirements of an on-baod bus unit and the system configuration of PTPS using 700MHz band vehicle infrastructure communication to improve its efficiency (Advanced PTPS) were studied as part of the development of Advanced Rapid Tra (ART) under SIP-adus. Then, the effect of the improvement of travel speed and time reliability of ART and the impact on the general vehicle as the ourse. In addition, discussions with the people concern were conducted to make a plan of a field operational test for the future. Project Summary [Study items in FY 2015] (Basics unversy for the current PTPS and the bus location systems and consideration about the configuration of Advanced PTPS (PP issical to a locating passing intersection priorities to ART vehicles by the on-baard bus unit 3(Wrification of the effect of installation of various types of dedicated lanes for ART vehicle </th <th></th> <th></th>			
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Future plan

- Further simulation study under various conditions such as traffic demand, signal control settings and so on for the effective way of introducing Advanced PTPS
- Further real machine verification in an environment closer to actual road conditions and extracting items to be tested by the field operational test
- Implementation of the field operational test to verify the effectiveness and the problems of Advanced PTPS under the real conditions and continuation of the discussion to make a consensus between the persons concerned
- Study of measures for expanding introduction of Advanced PTPS throughout Japan