Summary of SIP-ADUS project (FY2015)

Name of the project	A research of a common platform of the pedestrian support system in the consideration of problems and solutions to realize automated driving systems
Responsible Organization	The consortium of Hitachi, Ltd. and NAVITIME JAPAN Co., Ltd.

Name Atsushi Ishii

Object of the Project

To realize the safe, secure and friendly traffic systems for all people including vulnerable road users such as the elderly and people with disabilities, we construct the pedestrian support system that improves accessibilities to public transportation. It degreases traffic accidents by merging dynamic location information of pedestrian and surrounding cars in cyber space.

Project Summary

The pedestrian support system is consist of the common base and personal navigation applications that private companies provide. In this research, we studied the concept of information collection, management, operation and application that were needed in the common platform. And also we studied about safety awareness promotion.

The pedestrian space network data that is already collected in several areas is useful but nation wide data collection needs time. It is needed to consider about development and usage of easy collectable data. We concluded that it was important to provide information cooperating with map companies that provided data to navigation companies.

We considered about information provision to individual vulnerable road users in this year field experiment with 3 types of examinee of the wheelchair user, blind people and partially sighted people by using the prototype of the personal navigation application. We confirmed that user type customized route navigation and PICS link function were useful for vulnerable road users. By the investigation of domestic and international cases, we concluded that measures of spreading safety awareness by resident participation activities were useful to promote safety awareness.

Future plan

In this year, we did the basic investigation and consideration about a common platform of the pedestrian support system. Toward next year field experiment, continues considerations from following viewpoints are needed.

a) Verification with wider users in the field experiment

b) Practical considerations and applications about basic collection methods of necessary information

c) Consideration about information provision methods cooperating with map companies