Summary of SIP-ADUS project (FY2015)

Name of the project	Activity Plan of Dynamic Map Study
Responsible Organization	Dynamic Map Study Consortium. Representative of the consortium : Mitsubishi Electric Corporation.

Name	Mitsubishi Electric Corporation.

Object of the Project

1. Object of Dynamic Map Study Plan Project
①For automated driving, dynamic information is also required in addition to static information.
②According to required update interval, there exist several information layer as shown
  in the following figure.
③"Dynamic Map " is so called "One Stop" information source that can provide necessary information for automated driving.

Project Summary

1. Overview of Dynamic Map Study Plan(1)
  2015 Study plan – Dynamic Map Data Structure
  ①Requirements for Dynamic Map is defined by analyzing provided
    "Use Case" from SIP.
  ②Data structure of Dynamic Map is investi–gated based on the
    defined requirements.
  ③Followings are also investigated
    – Interface to acquire dynamic data
    – Standardization
      data structure/utilization of Lane ID and etc.

2. Overview of Dynamic Map Study Plan(2)
2015 Study plan – Dynamic Map Data Updating
①Update procedure of Dynamic Map Data is investigated.
②Following are data sources for update
  – Existing data(such as traffic data hold by public sector and etc.)
  – Measured 3D information by MMS(Mobile Mapping System)
  – Probe information.

3. Overview of Dynamic Map Study Plan(3)
2015 Study plan – Dynamic Map Prototyping
Prototyping of Dynamic Map is planned based on the defined
investigation results.
①3D map information around "Odaiba" is used for this purpose.
②To evaluate the behavior of the Dynamic Map, "Dynamic Map Viewer
" is also designed and prepared.

4. Overview of Dynamic Map Study Plan(4)
Candidate areas for Dynamic Map Prototyping are shown in the
following.
①Candidate Area 1
・Area: Metropolitan Expressway, Bay shore Route from "Ooi" to
  "Ariake JCT"
・Evaluation Item: Superposition of construction regulatory information.
②Candidate Area 2
・Area : General road near Tokyo Bigsite.
・Evaluation Item : Superposition of signal information from DSSS.

Future plan

1. Apply to the dynamic map of dynamic data.
2. Evaluation for Wide area of the dynamic map. (the base map)
3. Action to international standardization activities.