Summary of SIP-adus Project (FY2016)

Name of the project	**Study and consideration to construct the "Dynamic Map Service Platform"**
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Object of the Project

The concept of Society5.0, a super smart society aiming at economic development and resolution of social issues, says that "Intelligent Transport Systems", which is one of the 11 systems identified in the 2015 Comprehensive Strategy, will be developed as core systems, and construction of the platform which enables various systems to utilize a dynamic map is needed to create new values and services.

For that reason, it is important to realize the "Dynamic Map Service Platform", a base system to utilize the dynamic map, which is planed to be constructed in the SIP-adus*, in various fields.

The object of this project is to develop the concept of the "Dynamic Map Service Platform", which will be utilized in various fields in the future, as a part of government measure with orchestrating cutting-edge ICT technologies and all-hands collaboration between wide-range parties.

* SIP-adus : Cross-Ministerial Strategic Innovation Promotion Program Innovation of Automated Driving for Universal Services

Project Summary

In this project, we studied and considered to construct the service platform which enables various systems to utilize the dynamic map and to create new values and services.

1. Study of use cases of the Dynamic Map Service Platform
We considered service models of the Dynamic Map Service Platform in 7 fields (logistics, personal navigation, road management, vehicle, agriculture, electric power and telecommunication industry, construction) and studied about needs and feasibility of those models.
We also considered information processing required in those models, and sorted out requirements which is needed to create service architectures of the Dynamic Map Service Platform.

2. Consideration of service architectures about the Dynamic Map Service Platform
Based on the result of the above study, we considered system functions which enables us to put geographic information and map information (3D map) into various fields.
And we sorted out requirements which should be considered in concretizing service architectures from the viewpoint of extendibility, accessibility, and security.

3. Consideration for commercialization of the Dynamic Map Service Platform
We considered business models and operating structures of the Dynamic Map Service Platform to operate it as a business.

4. Consideration about cooperation with various parties
We researched foreign businesses about which the practical investigation had already proceeded in advance, and considered how to cooperate with them.
And we also considered the cooperation with domestic parties which is needed for commercialization of the Dynamic Map Service Platform.

Future plan

1. Establishment of the environment to promote broader use of the Dynamic Map Service Platform
It is needed to create the environment which promotes providing geographic information and map information from its holders to the Dynamic Map Service Platform and increasing the number of companies and corporations accessing the Dynamic Map Service Platform, with support from government and private industry groups of each fields.

2. Formulation of the interface to connect with various systems
It is needed to formulate the interface (API, authentication method, etc.) by checking the specifications of other relevant systems to enable the information exchange together with various relevant systems.

3. Provision of worthy and unique information
For expanding the business scale of the Dynamic Map Service Platform, it is critical issue to create worthy information, which is used cooperatively in specific business field, by gathering and analyzing various information.