

Summary of SIP-adus Project (FY2016)

Name of the project	Development functions required for ART information center
Responsible Organization	Hitachi, Ltd.
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Object of the Project	<p>Cabinet Office, Government of Japan and other related government agencies are developing ART(Advanced Rapid Transit) as a new public transportation between urban areas and Tokyo waterfront where is deployed for 2020 Tokyo Olympic and Paralympic Games. It is expected that by using sensor information of ART, new traffic control systems or information services provide more comfortable, safe and secure trip for passengers.</p> <p>New open data platform is required for new traffic control systems or information services to effectively use various information from ART sensors or external systems (dynamic map etc.).</p> <p>In this project, we worked for the following items from the viewpoint of that the purpose of ART information center is to connect ART information related services and next generation transportations organically and flexibly.</p> <p>(1) Clarification of data contents which should be collected and shared</p> <p>(2) Consideration about requirements of platform function (management/operation/cooperation, interface etc.) and prototyping and feasibility studies of the platform</p>
Project Summary	<p>(1) Research/consideration/development about utilizations of the ART sensor information</p> <ul style="list-style-type: none">- Research and analyze about types of sensors and their collectable information- Consideration of utilization of collected information from those sensors and from other information providing services <p>(2) Research/consideration/development about cooperation with external systems</p> <ul style="list-style-type: none">- Research of dynamic map and consideration for cooperation- Consideration of required information for advanced transfer guide using simulation systems- Consideration of feasibilities of those advanced transfer guide <p>(3) Consideration about requirements of platform function (management/operation/cooperation, interface etc.) and prototyping and feasibility studies of the platform</p> <ul style="list-style-type: none">- Definition of functions and configurations of the platform- Consideration of requirements about basic functions of the platform
Future plan	<p>(1) Research/consideration/development about utilizations of the ART sensor information</p> <ul style="list-style-type: none">- Consideration of new utilization of sensors (including development of new analyzing methods) <p>(2) Research/consideration/development about cooperation with external systems</p> <ul style="list-style-type: none">- Consideration of necessity and method of cooperation with dynamic map- Consideration of requirement of the external I/O interface for advanced transfer guide using congestion simulation system- Consideration of advanced transfer guide <p>(3) Consideration about requirements of platform functions (management/operation/cooperation, interface etc.) and prototyping and feasibility studies of the platform</p> <ul style="list-style-type: none">- Consideration of the platform management and operation- Verification of requirements of functions defined in this fiscal year- Verification of the size of ART information center <p>(4) Consideration of required information for commercialization</p> <ul style="list-style-type: none">- Research of business examples- Clarification of challenges for commercialization