

Regional Intelligent Transportation System Architecture Plan

RTC

Project Completed: March 2022

Project Information

RTC funding: \$100,000 in STBG Funds

Total Project Cost: \$115,600

Project Type: Multi-Agency Planning

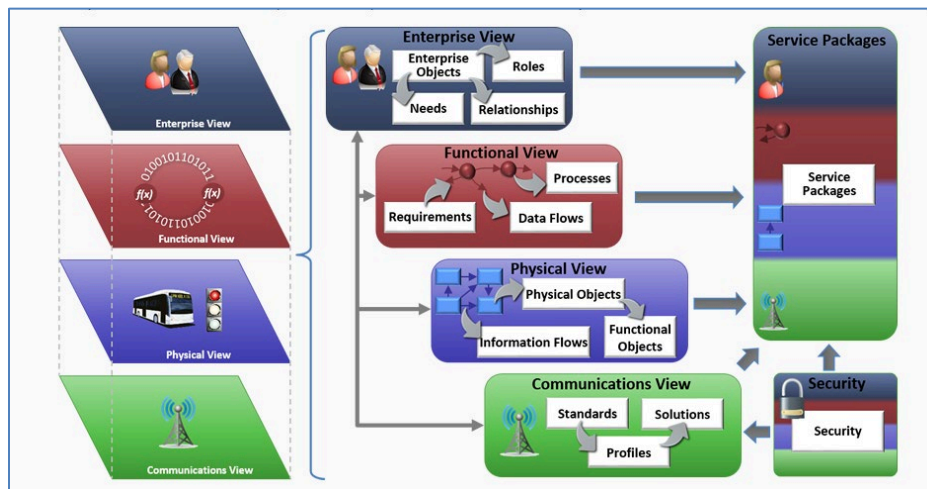
Study Area: Vancouver Urban Area



Project Description

Significant changes have occurred since the last update to the VAST regional ITS Architecture in 2016, including emerging and new technologies as well as the structure of the ITS Architecture database as developed by the USDOT. The Regional ITS Architecture (RITSA) Study utilizes the new ITS Architecture tools including ARC-IT to ensure the region is compliant with USDOT ITS Architecture requirements. The Study process included interviews with VAST partner stakeholders (WSDOT, City of Vancouver, Clark County, C-TRAN, and RTC) to document existing conditions and assess future needs. A key element was to document programmed and planned projects from the VAST partners to add into the RITSA architecture update.

The study updated the current ITS Architecture based on the interviews and a technical evaluation that identified areas to be updated or changed, especially for connected and autonomous vehicles.



The ITS architecture is a regionally focused summary of all the ITS strategies, systems, and connections operated and/or planned by the VAST region's agency partners and provides a framework for understanding and simplifying more complex relationships between the

transportation agencies that share information and technologies to operate and maintain the transportation system.

Project Benefits

The architecture update enables VAST partner agencies to support the region’s vision, mission, and values within an interoperable context that maximizes the return on ITS investment. ITS involves the application of advanced technologies and proven management techniques to support many goals and objectives, particularly related to managing congestion, improving reliability, providing services to travelers, enhancing safety, reducing greenhouse gas emissions, supporting equitable mobility goals, and assisting transportation system operators with management techniques.

Project Funding

Phase	Year	Federal Funds	Other Funds	Total
Planning	2021-2022	\$100,000	\$15,600	\$115,600
Total		\$100,000	\$15,600	\$115,600