

2020 - 2022 IT Strategic Plan

Agency: 505 Department of Rail and Public Transportation (

Date: 8/30/2023

Current IT State

In this section, describe the high-level strategy the agency will use to manage existing operational IT investments over the next year to 5 years. This section should align with identified Business Requirements for Existing Technology (BReTs). At minimum, please address the following questions in your description of your agency's strategy for managing existing operational IT investments:

Are there existing IT investments that will require additional funding over the next year to 5 years, such as license renewals, re-competition of current IT contracts, or system enhancements required by the Agency Strategic Plan?

If there are systems that will no longer support the agency's business needs, either through poor performance or excessive cost, how does IT leadership in the agency plan to address the issues?

If the agency does not have the staff or funding to meet increasing demand for IT services, how will IT leadership fulfill the requests?

DRPT supports three client/server applications and three web applications which collectively perform the bulk of the agency's daily operational tasks. All of these applications share common databases and are integrated with each other. They were also all developed internally and are currently maintained by existing IT staff.

- OLGA (Online Grant Administration) This extensive web-based application provides grantees a suite of services. These include the ability to submit grant applications to DRPT, monitor their status, manage their projects, request and drawdown funds, maintain their inventory, report ridership, etc.

- Symphony: This client/server application is the tool used internally by DRPT staff to manage all the functions necessary to support OLGA. Symphony allows for the approval and management of grants applications, reimbursement requests, extension requests, etc. It also provides an abundance of reports.

- ICAPS (Invoice Creation and Processing System): ICAPS is a client/server application used primarily by the financial staff at DRPT to manage accounts payable, project budgeting, voucher payments, Cardinal interface, etc. It also contains a large number of reports which support the daily functions of the financial staff.

- Procure: Procure is a client/server application, developed before the advent of EVA, which is now used as a tool for internal management and approval of requisitions and their corresponding purchase orders. Procure is one of our oldest applications. Microsoft no longer supports the VB6 environment in which it was created, therefore it is being replaced by Bobcat in early FY 20. (see below).

- DRPT Website: The DRPT Website is a large repository of information available to the public that covers all aspects of the agency.

- DRPT Intranet: The intranet is an internal system used by all staff members for agency communications. It also contains several specialized modules for tasks such as initiation of purchase requisitions, a document management system (DMS), leave reporting, etc.

- Bobcat: Bobcat is an intranet-based application currently under development by internal DRPT IT staff. The first phase, which is expected to go into production in early FY 20, will replace Procure (see above).

All of these applications run on virtual servers and are EO19 compliant. DRPT anticipates that all Current Operational IT Investments, and internally developed enhancements or replacements thereof, will continue to meet agency business needs in the foreseeable future. No significant additional investments are expected.

Factors Impacting the Current IT

In this section, the agency will describe the changes in their business environment that will require or mandate changes to the agency's current IT investments. These are requirements and mandates from external sources, such as other agencies or business partners, the agency's customer base, product and service providers, or new federal or state legislation or regulations. The agency must identify the business value of the change, any important deadlines that must be met, and the consequences if the deadlines are not met. In your discussion, be sure to note whether the proposed enhancements are funded or not. If the agency's existing current IT investments will not need enhancement due to requirements or mandates from external sources in the foreseeable future, the agency should enter the following text rather than leave the Factors Impacting the Current IT section blank

For each mandated change, summarize your agency's response from your Agency Strategic Plan, and is it the opinion of agency IT leadership that the IT portion of the response is adequately funded?

Do the mandated changes effect IT in other Commonwealth agencies, or in other states? If so, how?

Increases in IT costs are presenting challenges to smaller agency budgets and determining which strategies can be pursued.

Proposed IT Solutions

In this section, describe the high-level strategy the agency will use to initiate new IT investments over the next year to 5 years in support of the agency strategic objectives documented in your Agency Strategic Plan. The agency does not need to consider specific technologies at this time, however, the strategy should identify how the IT implementation will provide business value to the organization. This section should align with identified Business Requirements for New Technology (BRnTs). At minimum, please address the following questions in your description of your agency's strategy for initiating new IT investments:

What are the most important solutions, based on the priority assigned to the requirements by the business sponsors in your agency, and what is the approach to achieving these priority solutions?

If any new IT initiatives will be started in the upcoming budget biennium, is it the opinion of agency IT leadership that it is adequately funded?

Does the agency's current IT staff have the appropriate skill set needed to support future agency technologies? If not, what skill sets need to be acquired?

If the agency will be engaged in multiple new IT initiatives, how will agency IT staff and agency subject matter experts be used across the initiatives?

DRPT is planning to purchase Socrata and hire consultants to assist with its configuration and use during FY 20.

The primary purpose of this software will be to construct an improved facility for delivering our Six Year Plan to the public. See the Socrata BRnT and PRG for more details.

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DRPT does not have any other Proposed IT Solutions or Investments that will support agency strategic objectives, service area objectives, commonwealth, enterprise, or secretariat-level strategic priorities, agency performance measures, or societal indicators.

IT Strategic Plan Budget Tables

Agency:	505 Department of Rail and Public Transportation (
Date:	8/30/2023			
Current IT Services				
	Costs Year 1		Costs Year 2	
Category	GF	NGF	GF	NGF
Projected Service Fees		\$609,623.65		\$627,912.36
VITA Infrastructure Changes				
Estimated VITA Infrastructure	\$0.00	\$609,623.65	\$0.00	\$627,912.36
Specialized Infrastructure				
Agency IT Staff		\$489,899.28		\$504,596.26
Non-agency IT Staff				
Cloud Computing Service				
Other Application Costs		\$250,000.00		\$250,000.00
Total:	\$0.00	\$1,349,522.93	\$0.00	\$1,382,508.62
Proposed IT Investments				
	Costs Year 1		Costs Year 2	
Category	GF	NGF	GF	NGF
Major IT Projects:				
Non-Major IT Projects:				
Agency-Level IT Projects:				
Major Stand Alone IT Procurements:				
Non-Major Stand Alone IT Procurements:				
Agency-Level Stand Alone IT Procurements:				
Procurement Adjustment for Staffing:				
Total:	\$0.00	\$0.00	\$0.00	\$0.00

Projected Total IT Budget					
		Costs Year 1		Costs Year 2	
Category		GF	NGF	GF	NGF
Current IT Services		\$0.00	\$1,349,522.93	\$0.00	\$1,382,508.62
Proposed IT Investments		\$0.00	\$0.00	\$0.00	\$0.00
Total		\$0.00	\$1,349,522.93	\$0.00	\$1,382,508.62

Business Requirements For Technology

Agency:	505 Department of Rail and Public Transportation
Date:	8/30/2023
BRnT DRPT Grants Management	
BRT Type:	Business Requirement for New Technology
Date Submitted:	8/18/2023
Mandate:	
Mission Critical:	
Description:	
DRPT will move to Dulles WebGrants for all our grants that are processed in OLGA/ Symphony now. OLGA/ Symphony is an outdated homegrown system	
BRnT Socrata	
BRT Type:	Business Requirement for New Technology
Date Submitted:	6/16/2023
Mandate:	
Mission Critical:	
Description:	
Each year, the Virginia Department of Rail and Public Transportation (DRPT) develops a Six Year Improvement plan (SYIP) that is approved by the Commonwealth Transportation Board (CTB) in June. The DRPT makes the SYIP available to the public using a PDF of an EXCEL file linked on its external website. The Department desires to create an interactive filtering tool on its external website to allow interested parties to perform research on the projects and related allocations in the SYIP and has determined that SOCRATA is the best tool available to accomplish this task and to provide go forward options as to SYIP interactivity with in-place DRPT performance management and source systems with the end goal of a linked, real-time performance management system.	
DRPT SD-WAN Upgrade	

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/1/2023
Mandate:	Yes
Mission Critical:	Yes
Description:	
<p>Configure existing routers to support SD-WAN capability across all agency locations. This approach prepares agency location(s) with the ability to add additional network capabilities (multiprotocol label switching (MPLS), broadband, wireless (i.e., Cradlepoint)) to take advantage of application -aware routing over private and public networks.</p> <p>Three step process:</p> <p>Remote internetwork operating system (IOS) software upgrade on the router.</p> <p>Remote SD-WAN deployment</p> <p>Circuit deployment as needed</p>	
DRPT Website Modernization	
BRT Type:	Business Requirement for New Technology
Date Submitted:	6/16/2023
Mandate:	
Mission Critical:	Yes
Description:	
<p>The primary objective of the COV Website Modernization and the CMS Virginia.gov projects are to ensure all state sites are on a single common platform and are following required VITA, COV and 508 standards</p>	
Remix	
BRT Type:	Business Requirement for New Technology
Date Submitted:	4/12/2023
Mandate:	

**Mission
Critical:**

Description:

Remix is a web-hosted application used for transit service planning. The map-based application seeks to decrease the time needed for transit agencies to develop different scenarios for altering transit service (i.e. adding, adjusting, and/or discontinuing a transit route). For example, license-holders can "draw" a new transit route in the platform, create anticipated service hours and service levels, and add a cost per hour to run the service. The application will then give the user the anticipated annual cost to run that service, how many jobs and people will be able to access the service, how many buses will be needed for the service, and identify the demographic makeup of the service area (low-income, minority, seniors, disabled, carless, etc.). The application is also used to perform FTA-required Title VI analyses for any major transit service changes.

Remix comes pre-loaded with various U.S. census datasets, including, but not limited to: population, employment, low-income, minority, seniors, youth, carless, and disabled. Users have the ability to "import" their own agency data using General Transit Feed Specification (GTFS) formatted data. GTFS data is open-source data used by transit agencies to share their service information (routes, times, bus stops, etc.) with third-party applications such as Google Maps, Remix, and others. By importing an agency's GTFS data into Remix, users can analyze existing transit services (ex. how many low-income individuals can access the current transit service) and make tweaks to the service to see what the anticipated impact is in terms of cost and population with access. In short, Remix is a virtual sandbox for understanding how transit service can be modified to better serve communities. None of the data used in the Remix platform is sensitive it's demographic data collected from the U.S. Census Bureau and transit agency service data (which is open-source GTFS data).

Dozens of transit agencies currently have access to Remix, including a handful in Virginia. DRPT intends to purchase a Remix license to give staff, and every transit in Virginia, access to the platform.

IT Strategic Plan Projects

There are no projects for this agency.

IT Strategic Plan Procurements

Agency:	505 Department of Rail and Public Transportation (
Date:	8/30/2023
Stand Alone Procurements:	
Procurement Name:	Remix Procurement
Procurement Date	5/14/2024
Procurement Description:	<p>Remix is a web-hosted application used for transit service planning. The map-based application seeks to decrease the time needed for transit agencies to develop different scenarios for altering transit service (i.e. adding, adjusting, and/or discontinuing a transit route). For example, license-holders can "draw" a new transit route in the platform, create anticipated service hours and service levels, and add a cost per hour to run the service. The application will then give the user the anticipated annual cost to run that service, how many jobs and people will be able to access the service, how many buses will be needed for the service, and identify the demographic makeup of the service area (low-income, minority, seniors, disabled, carless, etc.). The application is also used to perform FTA-required Title VI analyses for any major transit service changes.</p> <p>Remix comes pre-loaded with various U.S. census datasets, including, but not limited to: population, employment, low-income, minority, seniors, youth, carless, and disabled. Users have the ability to "import" their own agency data using General Transit Feed Specification (GTFS) formatted data. GTFS data is open-source data used by transit agencies to share their service information (routes, times, bus stops, etc.) with third-party applications such as Google Maps, Remix, and others. By importing an agency's GTFS data into Remix, users can analyze existing transit services (ex. how many low-income individuals can access the current transit service) and make tweaks to the service to see what the anticipated impact is in terms of cost and population with access. In short, Remix is a virtual sandbox for understanding how transit service can be modified to better serve communities. None of the data used in the Remix platform is sensitive it's demographic data collected from the U.S. Census Bureau and transit agency service data (which is open-source GTFS data).</p> <p>Dozens of transit agencies currently have access to Remix, including a handful in Virginia. DRPT intends to purchase a Remix license to give staff, and every transit in Virginia, access to the platform. DRPT will not be entering any COV data into the Remix system, just using the public & US census bureau data already contained within the Remix system for reporting and planning.</p>

