2022 - 2024 IT Strategic Plan

Agency:	501 Department of Transportation (VDOT)
Date:	8/12/2022

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 agencys 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 agencys 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?

MISSION STATEMENT: Support the Commonwealth's goals through program execution, maximizing use of resources, innovation, business focus and system efficiency. Treat each dollar as if were your own. Citizens have entrusted us with their hard earned money and they deserve to know it is being put to the best use.

VISION STATEMENT: ITD Strives to Deliver an IT-Enabled Environment where VDOT staff are mobile-enabled to work when and where they are needed for optimal results utilizing IT assets (computers, phones, and software) to operate anywhere during a project, situation, or emergency. Documents and processes are digital when possible. Data and information are delivered reliably, accurately, and usably. VDOT applications and storage are in the cloud (SaaS, PaaS, or IaaS) to deliver on-demand and seamlessly adapt to VDOT's real time needs. Work is automated and complemented with artificial intelligence. ITD is a source of innovation and inspiration to VDOT & the COV CURRENT OPERATIONAL IT INVESTMENTS The mission of the Department's Information Technology Program is to optimize VDOT's operational efficiency through information engineering and innovative deployment of technology. While the business divisions identify their strategic directives and define business requirements, Information Technology Division (ITD) is charged with defining and implementing innovative technology solutions. ITD is staffed by state employees, private sector consultants, and service providers who support over 200 data assets and applications. All are charged with delivering high quality, cost effective, and timely IT solutions and services. As the demand on IT services continues to grow, so does the need for a robust and disciplined approach in project, resource, and budget management. To provide the necessary tools for managing these demands, ITD has implemented Microsoft Project Server. The system tracks both new applications as well as enhancements to existing applications; and assists with the planning and controlling of the IT budget and expenditures while providing a more robust reporting capability to decision makers. This has resulted in improved portfolio management leading to better use of technology resources and focus on VDOT strategic drivers. As stated in the VDOT Service Area Strategic Plan, the overall objective of Information Technology Services (69902) is to meet the Agency's mission by planning, developing, delivering, operating and maintaining a transportation system that is safe and enables efficient movement of people and goods, enhances the economy, and improves the quality of life through a commitment to appropriate management and direction.

To this end, ITD has determined the following tactical focus for the upcoming biennium:

* Messaging Migration
* Responding to increased Security Requests from VITA
* Infrastructure on Demand

* Network Latency
* Evaluating and deploying COTS (Commercial Off the Shelf) solutions to implement business functionality
* Supporting the delivery of public-centric solutions that enhance ease-of-use and improve citizen understanding of information
* Providing effective and efficient technical solutions for employees and citizens through multiple channels
* Providing seamless, resources and solutions for general agency users that aggregate access to multiple systems and data sources
* Leveraging current data and improving data quality
* Spatially enabling data
* Enhancing data integration and reporting through agency-wide toolsets
* Maintaining a highly-skilled workforce through implementation of a career path management plan
* Meeting COV and VDOT Security Policy requirements. Information Technology will employ state-of-the-art technologies to develop and support IT applications and special projects, using innovative development methodologies, industry-standard best practices, and agency-wide project management tools and measures. Management oversight will ensure compliance with all accountabilit

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 agencys current IT investments. These are requirements and mandates from external sources, such as other agencies or business partners, the agencys 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 agencys 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 agencys 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?

Balance of demands and constraints: Demands require innovation and obsolescence management that balances portfolio management of modern business solutions, supported by reliable technical platforms, with inevitable funding and resource constraints. This balance requires a renewed analysis of the agency's capacity to manage, execute and practice new business processes.

The Chief of Technology and Business Strategy works with agency leaders to balance priorities with available funding, resources and the organization's capacity for change.

• Business process change: As business organizations and processes change, IT must respond accordingly. Both anticipated and unanticipated changes affect an already constrained Information Technology Program

• Ability to attract highly skilled applicants: In order to deliver as promised according to the Division's mission, it is crucial that a highly skilled workforce be procured and maintained. Faced with a classified employee staffing shortage, ITD supplements full-time staff with consultants. The agency's strategy has been to maintain a smaller staff, with technical contractors augmenting the staff as well as working on specific projects. The ability to locate contractors with the skill set needed is challenging.

• Anticipated IT Changes

• More external customers accessing VDOT applications: VDOT will continue to become more transparent in business decisions, activities, and reporting. ITD will be heavily involved in this process.

• Continued collaborative projects with other agencies: VITA oversight of projects includes a review for possible enterprise impact. This process will continue into the new biennium and results in project delays that cannot be generally anticipated.

• Continued exploration and use of the latest technologies to improve process efficiencies: to include mobile technologies, cloud services and improved business data analytic tools.

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 agencys 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 agencys 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?

The Agency's highest service area objective is to improve highway safety for the traveling public. An integral part of improving highway safety is more efficient and effective turnaround of IT projects to both serve VDOT and the traveling public. It is important that IT react to requests for service in a timely manner and as promised to the business.

NEW AGENCY IT INVESTMENTS: (FY22 - 24)

Internal Talent Opportunity Marketplace – This is a project to implement a COTS solution that will enable managers to post technical resource needs when their staff is at capacity. The solution would match these requests with employees who have indicated they have the appropriate skillset and availability to complete the work assignment.
Data Query Tool - The overall vision of this project is to build the same functionality as the existing query tool on an ITD supported system/platform. This information is used in planning, designing, maintaining and restoring structures that come under the Commonwealth of Virginia. The existing query tool was developed over a decade ago on an antiquated system; as a result, updating it is extremely difficult. This request will migrate data flow and use data from the data warehouse. This query tool will use data from the Construction Division and the Structure and Bridge Division, as well as iPM, Falcon and other applications.

Web Content Management - This project will improve the overall user experience on our VDOT web properties for Virginia citizens and will make the maintenance/management of our public facing websites easier for the Communications and ITD teams.

Traffic Monitoring System – This effort will ensure all traffic count users have reliable access to both raw and summary traffic data. It will allow us to update technology to ensure sustainability of system, update business user interface to allow more intuitive data query, update end user interface(s) to allow more user 'self-service', provide download site that allows more powerful query capabilities (Inside and Outside VDOT), update data input interface to reduce time managing data input while maintaining data quality and ensure all reporting (inside and outside VDOT) is using SSR (master) data.

Occupational Health Tracking – This project will allow the creation of an easy tracking system where program managers, managers and employees can be monitor and report on compliance within the following areas (and any new as mandated) for employees enrolled in VDOT's Occupational Health Programs requiring OSHA, FMCSA or USCG-required medical surveillance.

Hire Vue Interviewing Tool Project – This tool will allow potential candidates to submit a one-way video to the interviewing panel which contains their answers to pre-selected interview questions. Hire Vue enables a faster, fairer, friendlier hiring experience for hiring teams and candidates alike. The software integrates with market-leading ATS and calendar systems to streamline the most tedious and time-consuming hiring activities with conversational AI, video interviewing, assessments, and automated scheduling. On one platform, to solve hiring challenges, from time to hire to new hire diversity to candidate experience.

OT Service and Asset Management - VDOT currently uses several tools to manage information for assets connected to the OT (Operations Technology) environment. The existing tools capture independent information about OT assets. This effort will fully integrate VDOT OT assets into a single statewide consistent approach. All edge devices (e.g., traffic signals, highway message signs, highway cameras), cabinets, network switches, firewalls, TOC servers/desktops, etc. and other digital component asset information will be maintained in a statewide system, identified as Operations Technology Service and Asset Management (OTSaAM). This includes all Intelligent Transportation Systems (ITS) devices and components (e.g., controllers, cameras, dynamic message signs, firewalls, rou

IT Strategic Plan Budget Tables

Agency:	501 Department of Transportation (VDOT)
Date:	8/12/2022

Current IT Services				
		Costs Year 1		Costs Year 2
Category	GF	NGF	GF	NGF
Projected Service Fees		$52,223,086.00		$53,789,778.00
VITA Infrastructure Changes				
Estimated VITA Infrastructure	$0.00	$52,223,086.00	$0.00	$53,789,778.00
Specialized Infrastructure				
Agency IT Staff		$13,326,796.00		$13,593,332.00
Non-agency IT Staff				
Cloud Computing Service				
Other Application Costs				
Total:	$0.00	$65,549,882.00	$0.00	$67,383,110.00

Proposed IT Investments				
		Costs Year 1		Costs Year 2
Category	GF	NGF	GF	NGF
Major IT Projects:		$13,370,613.00		$10,046,600.00
Non-Major IT Projects:		$300,000.00		$977,000.00
Agency-Level IT Projects:				
Major Stand Alone IT Procurements:		$43,406,775.68		$37,570,220.00
Non-Major Stand Alone IT Procurements:		$2,386,832.17		$849,757.00
Agency-Level Stand Alone IT Procurements:				
Procurement Adjustment for Staffing:				
Total:	$0.00	$59,464,220.85	$0.00	$49,443,577.00

Projected Total IT Budget				
		Costs Year 1		Costs Year 2
Category	GF	NGF	GF	NGF
Current IT Services:	$0.00	$65,549,882.00	$0.00	$67,383,110.00
Proposed IT Investments:	$0.00	$59,464,220.85	$0.00	$49,443,577.00
Total:	$0.00	$125,014,102.85	$0.00	$116,826,687.00

Business Requirements For Technology

Agency:	501 Department of Transportation
Date:	8/12/2022

501 VDOT BReT Cloud Readiness Assessment 2018 AASH

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	Yes
Mission Critical:	Yes

Description:

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501 VDOT BReT Cloud Readiness Assessment 2018 C28

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Mission Critical:	Yes
Description:	

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501 VDOT BReT Cloud Readiness Assessment 2018 Cont

BRT Type:	Business Requirement for Existing Technology
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Mandate:	Yes
Mission Critical:	Yes
Description:	

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501 VDOT BReT Cloud Readiness Assessment 2018 Cust

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501 VDOT BReT Cloud Readiness Assessment 2018 Doma

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Description:	

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501 VDOT BReT Cloud Readiness Assessment 2018 Elec

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Description:	

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501 VDOT BReT Cloud Readiness Assessment 2018 Ente

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Description:	

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501 VDOT BReT Cloud Readiness Assessment 2018 Flee

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Description:	

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501 VDOT BReT Cloud Readiness Assessment 2018 Geog

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Description:	

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501 VDOT BReT Cloud Readiness Assessment 2018 Geot

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501 VDOT BReT Cloud Readiness Assessment 2018 High

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Description:	

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501 VDOT BReT Cloud Readiness Assessment 2018 HR W

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	Yes
Mission Critical:	Yes
Description:	

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501 VDOT BReT Cloud Readiness Assessment 2018 IT P

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Mission Critical:	Yes
Description:	

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501 VDOT BRet Cloud Readiness Assessment 2018 Iter

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Description:	

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501 VDOT BReT Cloud Readiness Assessment 2018 K2 E

BRT Type:	Business Requirement for Existing Technology
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Mission Critical:	Yes
Description:	

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501 VDOT BReT Cloud Readiness Assessment 2018 Loca

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Description:	

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501 VDOT BReT Cloud Readiness Assessment 2018 Main

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Description:	

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501 VDOT BReT Cloud Readiness Assessment 2018 Pave

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501 VDOT BReT Cloud Readiness Assessment 2018 Phys

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Mission Critical:	Yes
Description:	

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501 VDOT BReT Cloud Readiness Assessment 2018 Proj

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Date Submitted:	3/12/2021
Mandate:	Yes
Mission Critical:	Yes
Description:	

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Provided an overview of the process at the recent agency information technology resources (AITR) meeting
Planned additional announcements to AITRs regarding remaining steps
Included cloud-related services and migration to the new data center in the recently awarded infrastructure contracts

Additionally, VITA and all systems must move from the Commonwealth Enterprise Solutions Center (CESC) in Chester by December of 2021. One related strategy is to reduce the number of physical servicers at CESC to prepare for the move. This means migration to the cloud must be completed by that time. It is imperative to start planning now.

Agencies' IT staff members have been asked to complete cloud assessments and should be using the results to identify resource requirements. VITA encourages agencies to evaluate their resources and discuss resource planning with the appropriate financial staff to ensure work can begin as required. Resource needs should be included requests in the upcoming budget cycle.

To identify which existing solutions can be migrated to the cloud and ensure all new IT solutions proposed be cloud-enabled, VITA will issue a hosting standard in the coming weeks. This standard will define terminology and identify requirements agencies must consider when implementing cloud-based IT solutions.

501 VDOT BReT Cloud Readiness Assessment 2018 Traf

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	Yes
Mission Critical:	Yes
Description:	

Governor Ralph Northam's "Executive Order 19: Cloud Service Utilization and Readiness" requires agencies to take specific actions starting this month and continuing through fall 2019.

The order requires VITA to adopt a model for evaluating and incorporating cloud services into the commonwealth's information technology (IT) strategy and services. VITA has:
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501 VDOT BReT Cloud Readiness Assessment 2018 Util

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Date Submitted:	3/12/2021
Mandate:	Yes
Mission Critical:	Yes
Description:	

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501 VDOT BReT Cloud Readiness Assessment 2018 Virg

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Date Submitted:	3/12/2021
Mandate:	Yes
Mission Critical:	Yes
Description:	

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Date Submitted:	3/12/2021
Mandate:	Yes
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501 VDOT BReT Cloud Readiness Assessment 2018 Web

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	Yes
Mission Critical:	Yes
Description:	

Governor Ralph Northam's "Executive Order 19: Cloud Service Utilization and Readiness" requires agencies to take specific actions starting this month and continuing through fall 2019.

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AASHTOWare Bridge Rating Software System - VDOT

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

AASHTOWare Project Estimator

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

Adopt A Highway

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

ASD Contract Management and Reporting Repository

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20234 - EO19_VDOT_Aggregate_Refactor/Re-Architect Project

ASD Project Portfolio Management

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Asset Management System Work Accomplishment

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Asset Management System Work Orders

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Automated Fuel Management Program

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20241 - EO19_VDOT_Automated Fuel Management Program_Repurchase Project

BReT AASHTOWare Bridge Management Cloud Migration

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	Yes
Mission Critical:	
Description:	

In our efforts to improve our processes and better align resources, we would like to explore options to have Mayvue cloud host and maintain the AASHTOWARE Bridge Management (BrM) System. Structure and Bridge (S&B) is requesting to launch a discovery to identify the benefits to both S&B and ITD and enable our divisions collectively to move forward on a solution that maximizes upon the determined benefits. The objective is to identify the path forward to enable S&B to meet immediate, intermediate, and long term business needs in a cost effective manner that balances resources, better aligns subject matter expertise, and limits the constraint on ITD's resources.

BReT AASHTOWare License Renewal

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	5/26/2021
Mandate:	
Mission Critical:	

Description:

Software and license renewal including additional service units for AASHTOWare products, including but not limited to AASHTOWare Bridge Management; AASHTOWare Pavement & AASHTOWare Project Estimator.

BReT AASHTOWare Service Credits

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	

Description:

We are purchasing 21 service credits to be used for AASHTOWare Project Civil Rights & Labor™ (CRL) support activities. AASHTOWare Project is used to support the agency's preconstruction and construction management processes. This system is also used document contract work performed and to create vouchers for payment based on bid proposal estimates. These service credits will be used for modifying functionality within the application by making modifications to the Civil Rights module, adding additional reports, subcontract payment upload capabilities, training and support.

BReT ArcGIS Software Upgrade

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	

Description:

The version of ArcGIS Server on the Roadway Network System (RNS) is retired and no longer supported by the vendor. The information managed within RNS is critical to the operations of VDOT. Operating on retired software is a risk and upgrading ensures that the software can be supported. VDOT already owns the latest version of the software as part of an existing licensing agreement and needs to apply the new software to the RNS environment.

BReT Automated Fuel Management Program Software Up

BRT Type:	Business Requirement for Existing Technology

Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	
Description:	

Monthly software support and upgrade services are required to maintain the Automated Fuel Management Program (AFMP). Procurement of new and upgraded hardware and on site services is required to maintain VDOT's existing EJ Ward Fueling equipment.

BReT Bridge Data Mart

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	5/6/2021
Mandate:	
Mission Critical:	Yes
Description:	

There is a business need to have better data analytics to provide predictive guidance for the Structure & Bridge (S&B) Division management. Currently there is not good access to data for analytics and trend analysis, and it is difficult to support individual data requests. The S&B Division does a lot of manual work to collect data for its bridge management, program oversight, and reporting needs. The objective of this effort is to use a vendor team to add a data mart for S&B into the current VDOT enterprise data warehouse that will serve as a central repository for S&B Division's analytics and reporting needs.

BReT CEDAR Upgrade

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	Yes
Mission Critical:	Yes
Description:	

The Comprehensive Environmental Data and Reporting (CEDAR) System is in need of a major investment to modernize the application for responsiveness to agency needs and to provide continual support for changing regulatory requirements.

BReT Closed Circuit TV Traffic Camera Replacement

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	

Mission Critical:	Yes
Description:	

VDOT would like a contractor to furnish all labor, supervision, equipment, vehicles, traffic control, tools, cameras, cable, materials, fasteners, attachments and any ancillary items to remove and install CCTV camera, equipment and cabling at 150 VDOT Traffic Camera Locations. The new IP CCTV cameras shall be installed in accordance with the most current edition of the VDOT Road and Bridge Specifications, Section 803.03 and 803.04. The Contractor shall install the new IP CCTV cameras utilizing existing infrastructure, i.e., CCTV camera poles, mounts, lowering devices, conduits, and cabinets. Services to be performed on Interstates, Primary and Secondary roads in VDOT's Northern Virginia Region to include Residencies within the counties of Arlington, Fairfax, Loudoun, Prince William, Spotsylvania and Stafford.

BReT Construction Data Mart

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/19/2021
Mandate:	
Mission Critical:	
Description:	

There is a business need to have better data analytics to provide predictive guidance for VDOT Construction management. Currently there isn't good access to data for analytics and trend analysis, and it is difficult to support individual data requests. The Construction Division does a lot of manual work to collect data for its construction management, program oversight and reporting needs. The objective of this effort is to use a vendor team to add a data mart for Construction into the current VDOT enterprise data warehouse that will serve as a central repository for the Construction Division's analytics and reporting needs.

BReT Crown Peak Subscription Renewal Procurement

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	
Description:	

Crown Peak Content Management Services provides the tools and support for VDOT Public Affairs staff to manage the agency's external web site. The Crown Peak solution provides the necessary tools to improve productivity and content timeliness.

BReT CSC Photo Transfer to HMMS

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	5/11/2021

Mandate:	
Mission Critical:	
Description:	

Customers frequently submit photos to the Customer Service Center related to their service requests. Currently, HMMS cannot receive those photos to allow them to be shared with field partners. Sharing the photos with HMMS would allow field partners to see the problem being described before driving to the location, which will increase their situational awareness; saving time, better allowing them to prioritize the work, and better understand what tools may be needed to fix the problem. Sharing photos could decrease customer frustration that occurs when they send in photos and are then told that they cannot be passed onto the field offices.

BReT Data Query Tool

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	5/10/2021
Mandate:	
Mission Critical:	
Description:	

The existing query tool was developed over a decade ago on an antiquated system; as a result, updating it is extremely difficult.
This request will migrate data flow and use data from the data warehouse. This query tool will use data from the Construction Division and the Structure and Bridge Division, as well as iPM, Falcon and other applications.

BReT Data Stage Upgrade

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	Yes
Mission Critical:	
Description:	

This procurement will
- migrate DataStage to the QTS data center in compliance with Executive Order 19,
- upgrade DataStage from v11.5 to v11.7,
- modernize DataStage scripts,
- and implement the IBM Information Server Components (IGC) in accordance with existing VDOT assets and policies.

BReT EBB Content Player Subscription Renewal

BRT Type:	Business Requirement for Existing Technology

Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	
Description:	

To improve agency communications to field level staff that do not have regular access to VDOT computers in the course of their daily work assignments. The field staff is isolated and does not feel like they are part of the team/family. There is a need to provide HR, Safety, and Training content directly to these field staff in an expedient manner and provide continuous operations capabilities in adverse weather situations directly to these staff in an expedient manner. Hardware to support the FourWinds application is installed in 290 buildings across the state.

BReT EBB Licensing Subscription Renewal Procuremen

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	
Description:	

VDOT has increased the number of EBB units in the field from 250 to 315. Moving to Enterprise Licenses will save the agency money and will continue to improve agency communications to field level staff that do not have regular access to VDOT computers.

BReT ESRI Enterprise License Renewal

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes
Description:	

VDOT utilizes ESRI ArcGIS products as its GIS platform supporting the business and citizen needs. This procurement will extend the current contract and product support.

BReT ESRI Enterprise License Renewal FY19-21

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes

Description:

VDOT utilizes ESRI ArcGIS products as its GIS platform supporting the business and citizen needs. This procurement will extend the current contract and product support for an additional three years.

BReT Fleet Cross Subscription Services

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	

Description:

Motor Fleet Cross system is designed to offer VDOT an indexed data based that links our specific service and parts manuals to the VDOT Asset Key Identifier (Asset Number) The service provides a proprietary DocViewer interface that allows fast, electronic linked navigation through the VDOT stored inventory of manuals. The VDOT parts supplier (Mancon) access this data base to verify part numbers for ordering of replacement parts. This service is widely used to compress the requirements of stored physical manuals and fast retrieval of critical information for repair of equipment assets. The solution does not store any VDOT Data or VDOT asset information.

BReT Fuel Hardware and Software Replacement

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	5/11/2021
Mandate:	
Mission Critical:	

Description:

Replace existing fuel hardware in the field and on vehicles and software to replace existing EJ Ward system

BReT Gartner Membership Renewal

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	

Description:

Gartner Membership Renewal which will include the following license subscriptions:
Research Executive Programs Leadership Team Plus, Technical Professionals (Enterprise) membership and IT News and Insight. Licenses will be used by IT resources for research, analysis, and professional assistance.

BReT Geospatial Migration Services

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	Yes
Mission Critical:	
Description:	

The mandate to migrate VDOT's system portfolio to the cloud in accordance with EO19 requires a highly specialized technical effort to effectively plan and execute the transition. In particular, most of VDOT's interconnected enterprise systems have mapping components that require thorough vetting to confirm the depth of geospatial integrations and associated infrastructure requirements, as well as to determine how best to sequence and schedule the migrations. This effort will focus initially on the Enterprise GIS Environment, starting with the Integrator, RNS, and CEDAR platforms, through multiple SOWs.

BReT Inrix Data MOU

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes
Description:	

VDOT will issue a MOU to the University of Maryland (UMD) to obtain a data subscription from INRIX (a transportation data analytics company) to support performance measures, congestion management and traveler information efforts
throughout the state. Specifically, as VDOT plans to disseminate travel time information statewide, this service will
provide raw data and input to the travel time engine on key roadways for this program, and serve as a validation source to assess the quality of travel times obtained from VDOT sensors. This will be a one-year MOU.

BReT iSYP Suite Technology Upgrade

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	Yes
Mission Critical:	Yes
Description:	

VDOT annually publishes its Six Year Program (SYP) which details construction projects on-going or planned to start within a six-year horizon.   As part of managing these programs, VDOT tracks the status of projects from initial request through to construction completion. The Integrated Six Year Program (iSYP) suite of systems was built to support these processes, mostly between 2000 and 2011.   The infrastructure of the systems is aged, fragile and difficult to maintain. The project objectives are to:
- Upgrade operating systems to current standards;
- Update application code and integrations as necessitated by the operating system upgrades;
- Add REST endpoints for backward and forward compatibility for cloud enabled applications;
- Make it mobile friendly by upgrading clients to use Angular;
- Address security concerns by moving the dbo objects into separate schemas and remove embedded SQL Commands;
- Increase resiliency and maintainability of the suite.

BReT Maintenance and Support of Advanced Revenue C

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	
Description:	

This is a new contract covering equipment and program maintenance & support of the Advanced Revenue Collection System (ARCS) at the Coleman Toll Facility.

BReT MetroQuest

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	6/25/2021
Mandate:	
Mission Critical:	Yes
Description:	

MetroQuest will be the primary survey tool used in VDOT's public engagement and virtual public involvement (VPI) efforts for transportation planning projects in support of the SMART SCALE project pipeline, as outlined in the current VDOT Business Plan.

BReT Microsoft Dynamics365 Cloud Licenses

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	Yes
Mission Critical:	Yes

Description:

VDOT currently uses Microsoft Dynamics OnPrem and is converting to cloud based in order to support EO-19. VDOT's current enterprise agreement for OnPrem licenses expires on 2-28-2021. Cloud licenses will provide both OnPrem and cloud entitlements.

BReT Microsoft Enterprise Agreement

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	

Description:

VDOT has reached the end of its three year Enterprise Agreement with Microsoft. In order to stay compliant with licensing and avoid interruption of critical infrastructure and application software, we are required to renew our Microsoft Enterprise Agreement.

BReT NOVA Cisco TOC Equipment

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	4/23/2021
Mandate:	
Mission Critical:	

Description:

Address obsolescence by replacing older CISCO equipment. With this equipment, we will establish a testing environment to avoid unintended/unexpected negative impacts to critical systems by testing new versions, capabilities and features prior to deployment to production environments.

BReT OIPI Data Trust

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	

Description:

Support the need for improved transportation safety data and analytics by adding data sets to the VDOT Data Lake for use by the Office of Intermodal Planning and Investments (OIPI) and the Commonwealth Data Trust.

BReT Oracle Licenses and Support

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	

Description:

This BRT is being submitted to purchase Oracle licenses, upgraded licenses, new support, and migrated support/backsupport under the terms and conditions of the VITA Contract.

BReT PPE Lane and Software Upgrade

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	1/26/2022
Mandate:	
Mission Critical:	

Description:

New multi-protocol tag readers, and software upgrades to bring the legacy installations for toll violations, and back-office integration modules for VDOT to meet the new EZPass interface requirements that are anticipated to be in place E-ZPass wide this coming calendar year. (PPE stands for Powhite Parkway Extension)

BReT RITIS, VPP Suite and XD Archive Data Service

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes

Description:

VDOT will issue an MOU to the University of Maryland (UMD) using the I-95 Corridor Coalition contract to obtain access to the Regional Integrated Transportation Information System (RITIS) and its Vehicle Probe Project (VPP) Suite data application. UMD will also archive XD data for VDOT through the contract.

RITIS and VPP suite provide performance measures tools used to analyze and present Archived Operations Data. VDOT will have access to the UMD Center for Advanced Transportation Technology(CATT) Lab data to perform/develop analytics to support several VDOT operational programs. Inrix, through its network of GPS-enabled vehicle probes, is able to provide real-time XD-Data, decision-quality speed and congestion information in the area. Data is being provided for 1566 centerline miles of freeways and 5,827 centerline miles statewide. This will be a one-year MOU.

BReT SingleStone for MS Dynamics CRM Platform

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes
Description:	

This procurement is for a statement of work (SOW) for support of a suite of applications developed in the Microsoft Dynamics CRM (Customer Relationship Management) platform. The suite was developed by the vendor who will be the named source on the SOW.

BReT Skillsoft Online Courseware and Library Licen

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	
Description:	

This BRT is for the purchase of Skillsoft licenses which will provide access to their learning management system software and content services. The products and/or services include but are not limited to the following:
BUSINESS COURSEWARE COLLECTION
COMPLIANCE LIBRARY LICENSE:
DESKTOP & IT VIDEOS
DESKTOP & IT COURSEWARE COLLECTION
LEADERSHIP COLLECTION
LEGAL COMPLIANCE
SKILLSOFT BOOKS SUMMARIES

BReT SMART Portal 2020

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes
Description:	

The scope of this project is to deliver new and enhanced functionality within the SMART Portal web application allowing for program pre-application submission, new application submission to multiple programs, enhancements to the validation/screening/ scoring processes and to improve the user interface to update decisions online.

BReT SMART Portal Enhancements

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	Yes
Mission Critical:	Yes
Description:	

The scope of the SMART Portal 2022 Project is to deliver new and enhanced functionality within the SMART Portal web application allowing for program pre-application submission, new application submission to multiple programs, enhancements to the validation/screening/ scoring processes and to improve the user interface to update decisions online.

BReT SmartScale

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes
Description:	

Under the direction of the Commonwealth Transportation Board (CTB), VDOT is required to enhance the existing SmartScale portal. The purpose of the portal is to develop a simple way for eligible entities to request funding using a web-based application process and automate preparation of a data file for further analysis to support project screening, scoring, and selection decisions as part of the SYIP update process. Development of an electronic data intake process to resubmit applications or submit new applications is necessary in order to meet the CTB's criteria, accommodate the several hundred project requests that may be submitted or re-submitted from the previous years, for funding through multiple grant funding programs.

BReT Software Support for TransCore Toll System

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes
Description:	

The toll collection system currently in use at the Powhite Parkway Extension facility is a proprietary toll system software product that is highly integrated with coin machines, violation enforcement, reporting / audit systems and many other lane sensors and devices necessary to efficiently collect toll payments. This tolling solution is functioning at a very high level and is fully meeting the needs of VDOT and is far from end-of-life.

BReT Statewide Traffic Signal System	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes
Description:	

VDOT operates 3,000+ signals and localities operate 4,300+ signals on the arterial roadway network. This results in substantial congestion, vehicle emissions, and crashes. This project will deliver a modernized statewide signal system to be used across VDOT and optionally by localities through a cooperative procurement managed by VITA.

BReT TOC Firewall and Core Switch Replacement	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	10/26/2021
Mandate:	
Mission Critical:	Yes
Description:	

Firewall, and core switch for continued service to Traffic Operations center connectivity to Commonwealth networks and maintain network security. Current equipment if obsolete, and no longer supported by manufacturer. Additionally new Advanced Traffic Management System (ATMS), and expanding systems require more robust bandwidth to support.

BReT TOC Video Wall Replacement	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	1/28/2022
Mandate:	
Mission Critical:	Yes
Description:	

This initiative is to replace legacy equipment no longer supported. Maintenance for the existing equipment is due to expire in March 2022. This equipment is essential to Traffic Operations Center (TOC) operations for control room personnel to be able to manage and view traffic in various sections of the eastern region at the same time.

BReT Traffic Monitoring System Replacement	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	5/10/2021

Mandate:	
Mission Critical:	
Description:	

This request will ensure all traffic count users have reliable access to both raw and summary traffic data. 1. Update technology to ensure sustainability of system
2. Update business user interface to allow more intuitive data query
3. Update end user interface(s) to allow more user 'self-service'
4. Provide download site that allows more powerful query capabilities (Inside and Outside VDOT)
5. Update data input interface to reduce time managing data input while maintaining data quality
6. Ensure all reporting (inside and outside VDOT) is using SSR (master) data

BReT Traveler Information Data Sharing Services	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes
Description:	

VDOT's existing 511 traveler information systems have run their course and have reached end of life. Today, these tools provide essential traffic video and data distribution to travelers, internal operators, media members and other service partners. Since its inception in 2011, business requirements, operational needs, traveler expectations and technology have significantly changed making the current offering obsolete. To address the growing demand for VDOT's data, VDOT has developed several ad hoc tools to provide access to its data for industry and research partners. VDOT is embarking on this enterprise, strategic initiative to retire legacy systems and services, and develop a holistic solution to address the growing need.

VDOT is seeking a supplier to provide and securely manage a cloud-based suite of traffic, travel and road information services and specialized tools through a single platform to serve a variety of stakeholders including:

• Internal VDOT operations centers
• VDOT operators
• VDOT executives
• Public safety partners
• Media members
• Travelers
• Connected and automated vehicle (CAV) community

The supplier will provide distribution services for designated VDOT operations-related transportation video and data generated in transportation operations and traffic engineering functions across VDOT. Distribution methods may include:

• Web
• Mobile application (iPhone and Android)
• Digital voice assistant
• Automated data services or application program interfaces (APIs) of various file types

The current service provides a critical connection of field video back to the Statewide ATMS enabling operators to view the video within ATMS application for incident detection and management, as well as situational awareness. The contract resulting from this RFP will replace the existing Statewide Transportation, Video, Data Distribution/Statewide 511 Information Service contract and otherdata sharing portals managed by VDOT or provided by third parties.

BReT VDOT Data Provisioning for DMV Automated Rout

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes

Description:

Currently data is delivered in a fragmented fashion to DMV via many different mechanisms. This effort will consolidate and enhance the delivery through a single channel using industry standard methods versus proprietary protocols, which require a lot of manual intervention to support hauling permit issuance.

The data feeds are intended to interface with the new Automated Routing System that DMV is currently looking to procure. The DMV system will need to be identified before this effort can begin.

BReT VDOT IT Contingent Labor

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	5/20/2021
Mandate:	
Mission Critical:	Yes

Description:

The VDOT IT Program requires the support of IT contingent labor to meet ongoing agency demands for: * Application Maintenance and Support Services * New Development * System Engineering and Architecture Services * Program Governance, Administration and Oversight * and * Enterprise Data Management Services. The Commonwealth IT contingent labor program contract provides an easy and quick way for public bodies to access quality information technology (IT) labor resources. Resources can be in the form of IT contractors, paid an hourly rate based on their skills, or in the form of a deliverables-based statement of work solution for initiatives totaling less than $2 million. The hourly-based resource solution, also called staff augmentation, covers a broad range of services with fifty IT job titles that are available at varying degrees of experience. Each of these titles has a not-to-exceed hourly rate based on the latest market conditions in two of the major economic zones in the commonwealth. The deliverables-based solution provides fixed price statement of work initiatives in one of the 15 specialty areas currently in and throughout Virginia.

BReT VDOT IT Contingent Labor_FY18-20

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes

Description:

The VDOT IT Program requires the support of IT contingent labor to meet ongoing agency demands for: * Application Maintenance and Support Services * New Development * System Engineering and Architecture Services * Program Governance, Administration and Oversight * and * Enterprise Data Management Services. The Commonwealth IT contingent labor program contract provides an easy and quick way for public bodies to access quality information technology (IT) labor resources. Resources can be in the form of IT contractors, paid an hourly rate based on their skills, or in the form of a deliverables-based statement of work solution for initiatives totaling less than $2 million. The hourly-based resource solution, also called staff augmentation, covers a broad range of services with fifty IT job titles that are available at varying degrees of experience. Each of these titles has a not-to-exceed hourly rate based on the latest market conditions in two of the major economic zones in the commonwealth. The deliverables-based solution provides fixed price statement of work initiatives in one of the 15 specialty areas currently in and throughout Virginia.

BReT VDOT IT Contingent Labor_FY20-22

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021

Mandate:	
Mission Critical:	Yes
Description:	

The VDOT IT Program requires the support of IT contingent labor to meet ongoing agency demands for: * Application Maintenance and Support Services * New Development * System Engineering and Architecture Services * Program Governance, Administration and Oversight * and * Enterprise Data Management Services. The Commonwealth IT contingent labor program contract provides an easy and quick way for public bodies to access quality information technology (IT) labor resources. Resources can be in the form of IT contractors, paid an hourly rate based on their skills, or in the form of a deliverables-based statement of work solution for initiatives totaling less than $2 million. The hourly-based resource solution, also called staff augmentation, covers a broad range of services with fifty IT job titles that are available at varying degrees of experience. Each of these titles has a not-to-exceed hourly rate based on the latest market conditions in two of the major economic zones in the commonwealth. The deliverables-based solution provides fixed price statement of work initiatives in one of the 15 specialty areas currently in and throughout Virginia.

BReT VDOT IT Software Renewals FY18-20

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	
Description:	

This business requirement is for the ongoing annual renewals of software licenses and maintenance agreements at VDOT. VDOT uses a wide array of software packages to support the mission and goals of the agency, ranging from complex engineering decision support tools to common desktop tools.
The known renewals are listed below:
AASHTO Annual Software Services Renewal
Agile Assets PMS Annual Software Maintenance & Support Renewal
Avaya Customer Management System
Avaya Session Border Controllers
Customer Service System 2.0 Maintenance & Support
FleetFocus M5 Maintenance & Support
Fugro Roadware
IBM Infosphere DataStage Annual Support
K2 BlackPearl & SmartForms Support & Maintenance
MS Eazure - EA Renewal
MS AZ Plan - OMS E2
Microsoft Premier Support Services
Oracle Server Support Renewal
Oracle Database Enterprise
Oracle Database Enterprise
SAP Business Objects X1 Maintenance & Support Renewal
Tableau Maintenance Renewal
Tableau Maintenance Renewal
Adobe Team Licensing
ESRI License Agreement
Quest Toad Software License Renewal

BReT VDOT Production Center Upgrade

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	
Description:	

The VDOT Production Center provides high-quality printing, scanning, photographic development and large-format reproduction services for the agency. This includes printing books, manuals, presentations, advertising copy, annual reports, contracts and bid documents.
This purchase order is issued under and will be governed by the pricing and terms and conditions of VITA Contract # VA-130405-XERX; for which Xerox will install and support the leased equipment and any software needed to manage the equipment. ITD will not be involved in the implementation, are not providing resources for this, and it will not require VDOT project manager oversight.

This technology will allow the agency to produce better quality documents and support services more efficiently while saving the agency an estimated $13,000 per year.

BReT VDOT Tableau licensing

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	5/4/2022
Mandate:	
Mission Critical:	Yes
Description:	

Annual renewal of Tableau licenses, maintenance, & support. This includes desktop user software licensing, Tableau Report Server licensing for the agency, and a Premium Support agreement so that we can better align our infrastructure to needs and troubleshoot more quickly and effectively when problems arise.

BReT VDOT Xerox Printer Services

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	8/8/2022
Mandate:	
Mission Critical:	
Description:	

Renewal of the FY13 Printing services with Xerox

BReT Waypath Customer Relationship Mgmt Support

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/30/2022
Mandate:	
Mission Critical:	
Description:	

Renew Operations and Maintenance Support
- Maintenance Releases - 4 per year
- Emergency hotfixes
 - Ad hoc Support Activities
- First level application support provided by Authorized User
- Infrastructure support provided by Authorized User
- Advanced application software support is provided by Waypath. Issues are escalated to Supplier if they cannot be resolved by Authorized User at first level. This includes support for:
    - Customer Relationship Mgmt (CRM) basic functions
    - CRM configurations
    - Custom application features
    - Integrations

BReT Wide Format Plotter Lease

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	
Description:	

VDOT has a need to renew its lease of wide format plotters in support on-going highway maintenance and construction programs.

BRnT Accounts Payable Automation

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	
Description:	

For FY18, the Accounts Payable Automation project was ranked the highest technology project priority by the VDOT Strategic Technology Board. VDOT seeks to transform how the Agency processes invoices with a digital, comprehensive COTS cloud solution to automate the intake, processing and approvals of invoicing. The solution will be used across the agency by all staff responsible for this business function. In addition, VDOT anticipates other agencies may be able to leverage this solution. VDOT processes for managing invoices are manual, inefficient, time consuming and make it difficult for all vendors to do business with VDOT. VDOT processes over 129,000 invoices each year using numerous channels (mail, email) and destinations (multiple locations vs. a central intake) and passes hardcopy documents to multiple personnel for handling and "wet" signatures, which is inefficient and time-consuming. Each invoice received requires multiple VDOT personnel to: ·Manually enter invoice data twice which provides opportunities for simple, but expensive, errors. Create and store paper copies of invoices, supporting paperwork and AP Vouchers which requires extensive personnel time to properly manage document storage, archive and retrieval. ·Research and respond to vendor inquiries regarding invoice processing status (manual process).   In addition to VDOT's pain points regarding invoices, the vendor community has difficulties submitting invoices to multiple channels and locations, retrieving up-to-date status of submitted invoices and forecasting cash flow.   VDOT seeks to transform how the Agency processes invoices with a digital, comprehensive COTS cloud solution to automate the intake, processing and approvals of invoicing. The solution will be used across the agency by all staff responsible for this business function. In addition, VDOT anticipates other agencies may be able to leverage this solution.   Substantial productivity savings are expected across the agency with ananticipated ROIof 228% after five years. Characteristics of the solution include: standard implementation /configuration and scalability.   This effort will support the COVA Strategic Plan goal to manage and direct the evaluation and adoption of cloud computing to address agency business requirements for a secure, flexible, economical, and rapidly scalable computing environment. In addition, this effort supports the Governor's priorities to encourage innovation and research, and to make our government accessible and efficiently managed. Multiple options are being exploring, seeking to leverage COTS products and Cloud solutions.

BRnT Advanced Transportation Controllers and Firmw

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes

Description:

VDOT seeks to procure traffic signal system controller hardware and firmware that are compatible and consistent throughout VDOT's Operations Regions for the purpose of enhancing cross-district interoperability, establishing efficiencies in maintenance, and expanding operations of the statewide signalized arterial roadway network; and prepare for future advances in technology.

The plan includes:
Phase I   – Concept of Operations - Complete
Phase II – Procurement of ATC Hardware & Firmware - $4.5M

BRnT AI and Satellite Imagery Package

BRT Type:	Business Requirement for New Technology

Date Submitted:	8/2/2021
Mandate:	
Mission Critical:	

Description:

The Transportation & Mobility Planning Division has identified a need for more frequent park & ride lot occupancy data to inform statewide multimodal planning and to support other transportation programs. BlackSky's remote sensing and artificial intelligence (AI) package will allow VDOT to more frequently, accurately, and cost effectively monitor Park & Ride lot occupancy and usage for application in a range of transportation planning functions.

BRnT AI-Based Decision Support System for Enhancin

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	

Description:

VDOT is seeking to select a supplier to design and implement the Decision Support System to evaluate the current transportation network conditions, predict the impact of disruptions, and provide coordinated response options to operational agencies to more effectively resolve disruptions that slow travelers down.

BRnT Automated Vehicle Systems Mapping

BRT Type:	Business Requirement for New Technology
Date Submitted:	12/7/2021
Mandate:	
Mission Critical:	

Description:

Document and deliver detailed system mappings of VDOT systems that will need to ingest Connected and Automated Vehicle (CAV) data and to share VDOT data in support of CAVs and to identify whether the systems are capable of doing so or if adjustments need to be made.

BRnT CEDAR Upgrade

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	Yes
Mission Critical:	

Description:

This business requirement is to upgrade the CEDAR (Comprehensive Environmental Data and Reporting) application for the following reasons:
Technology Obsolescence: It was initially thought a complete rewrite would be needed but further analysis determined a technology upgrade would be feasible.
CEDAR was deployed to production in 2003 and is considered aging technology and infrastructure that makes maintenance and future sustainability of the application challenging thereby putting the business operation of the Division at significant risk. For these reasons a technical upgrade is necessary.
Technology Consolidation:
CEDAR currently is utilizing several different JavaScript libraries as well as different methods for rendering data for the screens. This is understandable due to the age of the project as well as the number of developers involved over the years. This makes maintaining the system as large and complex as CEDAR challenging.
Functionality enhancements:
It is anticipated that additional functional enhancements will emerge during the effort to review and validate the existing Functional Requirements.

BRnT Construction Prequalification

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	

Description:

The desired Construction Prequalification state:
- An application allowing electronic submission,
- Possessing intelligence that reduces manual data entry
- Securely store application information
- Reduce effort and error rates
- Allow faster preparation of future submissions
- Provide a Software as a Service (SaaS) Solution
- Integrate with AASHTOWare Project
- Integrate with SBSD (Small Business and Supplier Diversity)

BRnT Customer Relationship Management Upgrade and

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	Yes
Mission Critical:	Yes

Description:

This procurement is for services to migrate the existing on-premise Customer Relationship Management (CRM) Microsoft Dynamics 2013 platform to a tenant in the VITA CRM 365 cloud. This is done in compliance with Executive Order 19 which mandates all COV systems to move out of the current commonwealth data center to a cloud environment by the end of 2021. This will also upgrade the platform to the newest version of Microsoft Dynamics CRM for extended life of the systems it houses.   Three separate Virginia Department of Transportation (VDOT) systems are built on the platform: Customer Service Center System, Tort Claims System and the Constituent Tracking System.

BRnT Data Science Center of Excellence

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	

Description:

(VDOT) seeks to form a team of deeply experienced data scientists and data engineers to design, develop, and sustain a Data Science center of excellence (COE).

BRnT Digitize Bridge Inspection Reports

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes

Description:

New mobile solution for field bridge inspectors allowing them to enter real-time inspection observations while out in the field via a tablet or other handheld device with workflow and digital approvals/electronic signature capabilities.

BRnT DWDM Fiber Network Build

BRT Type:	Business Requirement for New Technology
Date Submitted:	4/26/2021
Mandate:	
Mission Critical:	Yes

Description:

VDOT is implementing Dense Wave Division Multiplexing technology to connect VDOT fiber in a statewide Operations Technology network.

BRnT e-Signature

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	

Description:

Commissioner of Highways, Stephen Brich, PE, has identified an issue related to the amount of physical documentation being printed, reprinted, and copied. Mr. Brich, the Chiefs, and the Executive Assistants track, review, and approve documents on a daily basis.

VDOT requires a solution that will reduce the amount of paper being generated and utilize an electronic workflow process that incorporates an e-signature functionality. The ability to edit, review changes, audit who made which changes, and accept adjustments or modify the document are also essential. Lastly, workflow and workload monitoring is required with this solution.

BRnT Employee Onboarding

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	

Description:

Each year, VDOT on-boards approximately 1000 classified employees (in addition to classified employees we onboard an additional 150-200 wage employees). Of that number approximately 50% are from outside of the agency with 50% transferring to new assignments within the agency.
The labor and paperwork associated with this staffing volume is significant and prone to error. New and transferring employees currently fill out manual paper forms as part of this process, which can be a tedious employee experience.
Currently, onboarding is managed locally, resulting in inconsistent processes and communications regarding VDOT's mission, values and expectations.
The Human Resources (HR) team conducted a Request for Information (RFI) review of the current industry standard employee onboarding tools. HR is interested in purchasing Onboarding SaaS (Software as a Service), which are readily available through commercial vendors to standardize important agency specific communications that new and transferring employees receive, reduce labor associated with onboarding, engage new employees in the onboarding process prior to their first day on the job, reduce the opportunity for error, and to provide a consistent positive employee experience.

BRnT Ensure Reliable Traffic Monitoring Data

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	

Mission Critical:	
Description:	

VDOT conducts a program where traffic monitoring data are gathered from sensors in or along streets and highways as well as from other documented sources. Count data in various formats are managed in an end-of-life application that can no longer produce accurate, usable data such as estimates of the Average Vehicle Miles Traveled (VMT), the average annual number of vehicles that traveled each segment of road (AADT), estimates of the percentage of the AADT made up by 6 different vehicle types, ranging from cars to double trailer trucks, Peak Hour and Peak Direction factors used by planners and engineers to formulate design requirements, and numerous other planning, pavement, safety, and congestion support calculations.

BRnT Facilities Maintenance Management

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	
Description:	

VDOT must ensure orderly and safe operational function (heating, cooling, electrical, and fire suppression systems, etc.) of the 1373 buildings that the agency manages across the state. Currently, VDOT does not have a statewide system for tracking facility requests, costs of maintenance and data needed for capital planning, parts inventory, condition assessments and fulfillment of requests.

BRnT Fiber Optic Expansion

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	
Description:	

VDOT has significant investment in fiber optics within its Right of Ways. These resources are currently being used to support VDOT Operations Technology (cameras, message signs and operation centers.) Efforts are underway to strategically expand its usage for VDOT and Commonwealth broadband needs.

BRnT GIS Cloud Migration Roadmap

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	Yes

Mission Critical:	Yes

Description:	

In order to comply with Executive Order 19 requiring COV systems to move to the cloud, VDOT plans to engage a consultant that will analyze and provide a roadmap for migrating four key groups of geospatial information systems at VDOT into the cloud: Geographical Information Systems (GIS), Roadway Network System (RNS), Comprehensive Environmental Data and Reporting System (CEDAR) and GIS Integrator. The output of the analysis will be a roadmap showing the approach to migration and comprehensive documentation of the requirements to execute the roadmap.

BRnT Hire Vue Interviewing Tool

BRT Type:	Business Requirement for New Technology
Date Submitted:	5/11/2021
Mandate:	
Mission Critical:	

Description:	

Hire Vue is a Video Interviewing Tool which will allow potential candidates to submit a one-way video to the interviewing panel which contains their answers to pre-selected interview questions. The need for video interviewing has been identified as a way to streamline interviewing, shorten time to fill and to provide a path to better candidates, help evaluate human skills and is a key action item component identified in VoT efforts.

BRnT Human Capital Management Cloud Implementation

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	Yes
Mission Critical:	Yes

Description:	

VDOT must maximize human resource service delivery for all VDOT employees and prospective candidates. This is characterized by:
* Streamlined HR processes will alleviate administrative burdens of the recruiting, onboarding, talent management, and compensation management processes;
* Improved communication and collaboration between VDOT employees, prospective candidates, and VDOT management which will be reflected in reduced voluntary employee separation, reduction in average time to fill open positions, and improvement in associate satisfaction scores;
* Solution built on cloud infrastructure that will improve VDOT's scalability, availability, reliability and employee ease of use;
* Accelerated implementation of future HR business changes by eliminating costly custom development and using a system that is easily configured and maintained;
* Management communication that is open and effective and highly collaborative in nature and invites input and feedback from employees;
* Managers and senior executives eliminating barriers, providing feedback and inspiring confidence; and,
* A solution that equips managers to develop the next generation of organizational leaders.

BRnT I-64 Express Lanes Expansion

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	
Description:	

This request is to procure a tolling solution via an RFP "as a service" that will operate the next immediate segment as well as include options for the whole 45 mile network.

BRnT ICM Data Store and Decision Support

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes
Description:	

A Northern Virginia Multi-modal Mobility Data Store & Decision Support System is needed to: 1) Optimize performance of the existing infrastructure, 2) Enhance travel time reliability, 3) Support on-demand, multi-modal trip options for travelers.

VDOT will implement one of the nation's first unified, regional, real-time, predictive, transportation services for all agencies to make transportation management decisions collectively and to make transportation more reliable and seamless for users. The solution will provide end-to-end connected intermodal transportation service data in a 'live' cloud-based mobility data store for private sector/media to distribute to consumers.
This project will be implemented in three phases: Mobility Data Store, Data Store Expansion and Decision Support

BRnT IdeaScale Innovation Platform

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	
Description:	

Lack of platform to solicit problem solving innovative ideas across VDOT organization and leverage collective knowledge and creativity of workforce. Need to foster and cultivate creative innovative workforce and environment of innovation. IdeaScale will help find implementable, effective ideas, without overreaching budget. It will help maintain high levels of employee satisfaction by engaging employees through IdeaScale. Give VDOT employees a straight-forward, easily accessed platform to share their knowledge. Make the most of the insight, experience, and knowledge within VDOT. IdeaScale will bring transparency, collaboration and management to the process of innovation at VDOT. The system allows to do challenges and allows the executives to solicit input from targeted groups on specific topics.

BRnT Internal Talent Opportunity Marketplace

BRT Type:	Business Requirement for New Technology
Date Submitted:	5/10/2021
Mandate:	
Mission Critical:	

Description:

Provide managers access to the entire scope of the VDOT's talents, not just those of their own employees, while ensuring we can better utilize the existing resources of VDOT and provide employees more opportunity for growth and development.

BRnT Joint Safety Operations Center Conference Roo

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes

Description:

Newly constructed 3 story building that is a joint venture between the Virginia State Police, VDOT Traffic Operation Center and VDOT Richmond District Office. This is a contract for all the Audio Visual equipment and installation throughout the building for VDOT to include VTC for Conference Rooms and full AV setup in our Situation Room and Multipurpose Room

BRnT Land Use Outdoor Advertising Permit

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	Yes
Mission Critical:	Yes

Description:

The Office of Land Use and Outdoor Advertising (OA) utilize 3 systems for permitting: The Land Use Permit System (LUPS) is used to issue and track land use permits as well as collect sureties and fees; The Online Application allows citizens, localities, corporations, and utility companies to submit permit applications and pay the fees; and the Outdoor Advertising, an MS Access database in conjunction with GIS and a GIS plugin to manage their day to day business of issuing and controlling sign permits. The permitting process between LU and OA are similar, however, it is the desire of the business to find a single solution that will address the needs of both groups.

BRnT Locality Assistance

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	
Description:	

Localities no longer have access to VDOT systems directly. The purpose of this project is to understand the processes, touch points, pain points, and requirements for localities as they administer their projects. The vision is to create and implement a solution that will improve the communication between the localities and VDOT and to provide a way for the localities to provide and receive up to date, accurate, and complete information via a self-help system.

BRnT Managed Print Services

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	
Description:	

VDOT is entering into a Managed Print Services relationship with Xerox. MPS procurement encompasses the following areas; all networked printers, all high-speed multi-function devices, all color printing devices and supplies for the printers.

BRnT Mountain Tunnels SCADA Replacement

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes
Description:	

VDOT requires an industrial sized SCADA system solution to be installed at BWMT and ERMT providing a long term solution that will improve reliability, reduce risk or operator error, and can accommodate future fire life and safety projects. Features of the solution must include, but not limited to the following:

- Hot Standby PLC
- Remote Input Output Rack (RIO Rack)
- Uninterruptible Power Supply
- Human Machine Interface (HMI) Hardware and Software
Workstations

BRnT Multimodal Mobility Enhancement via Dynamic I

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	

Description:

VDOT is seeking to select a supplier to design and implement a Dynamic Incentivization (DI) system that will offer incentives to the traveling public that encourage travelers to change their departure time, route, or mode to maximize the efficiency of the transportation network. Example incentive could include discounted transit rides, which is a typical travel demand management strategy.

BRnT Occupational Health Tracking System

BRT Type:	Business Requirement for New Technology
Date Submitted:	5/10/2021
Mandate:	
Mission Critical:	

Description:

To improve current process of completing multiple spreadsheets in numerous related systems by creating an easy-to-use tracking system where program managers, managers and employees can be monitored and report on compliance with occupational health programs and services.

BRnT OT Security Network Detection and Response

BRT Type:	Business Requirement for New Technology
Date Submitted:	9/8/2021
Mandate:	
Mission Critical:	Yes

Description:

VDOT is implementing a Traffic Operations Support Center that will include a Security Operations Center (SOC) component. The SOC will use various tools to monitor/identify/mitigate the cybersecurity incidents in the Operations Technology Environment. Forescout is the technology that will be used for network detection and response.

BRnT OT Service and Asset Management Solution

BRT Type:	Business Requirement for New Technology
Date Submitted:	4/5/2021
Mandate:	
Mission Critical:	Yes

Description:

VDOT currently uses several tools to manage information for assets connected to the OT (Operations Technology) environment. The existing tools capture independent information about OT assets. This effort will fully integrate VDOT OT assets into a single statewide consistent approach.

All edge devices (e.g., traffic signals, highway message signs, highway cameras), cabinets, network switches, firewalls, TOC servers/desktops, etc. and other digital component asset information will be maintained in a statewide system, identified as Operations Technology Service and Asset Management (OTSaAM). This includes all Intelligent Transportation Systems (ITS) devices and components (e.g., controllers, cameras, dynamic message signs, firewalls, routers) and all traffic signal system components (e.g., controllers, signals, switches, routers, firewalls, detection devices). As old devices are retired, new devices are added, or exciting devices have configuration change on the OT environment the OTSaAM will reflect these actions. The OTSaAM will be the master data source (i.e. golden record) for all OT device asset information. As such it will be the source for all SOC (Security Operations Center), NOC (Network Operations Center), and IAM (Identity and Access Management) activities further articulated in the forthcoming ConOps.

The OTSaAM will serve and support several functions for the OT environment:
1. Provide integration point for OT tools, processes, and services, including:
* Asset inventory & attribute management
* Asset and network service management
* Change & configuration management
* Ticketing and resolution management
* Asset discovery
* Asset segmentation & device testing
2. Deliver reporting on all aspects of OT security monitoring
3. Provide a comprehensive OT NOC (Network Operations Center)
4. Develop an operations and maintenance plan for OT

VDOT will ask Suppliers to provide four important services:

* Develop detailed technical design for VDOT's OTSaAM including connections to the Security Operation Center, the Identity and Access Management solution, Statewide Traffic Signal System, OSPInsight, and the Statewide ATMS
* Implement CalemEAM as the OTSaAM
* Implement an OT Network Operations Center (NOC) to serve all aspects of OT

The contracts resulting from these procurements will ensure Operations Technology is secure, resilient, and compliant with applicable polices and standards, and will enable VDOT to address and remediate finding identified in the 2018 OT Cybersecurity Assessment.

BRnT OT SIEM Implementation

BRT Type:	Business Requirement for New Technology
Date Submitted:	2/8/2022
Mandate:	
Mission Critical:	Yes

Description:

The VDOT Operations Technology and Security teams require Security Information and Event Management (SIEM) tools in place so as to capture, identify, detect, and respond to network security threats anywhere in the OT network in near-real-time.

BRnT PlanGrid Software

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	

Description:

Tablet based inspection is the deployment of mobile devices such as iPads to provide construction inspectors with technology that will allow them to inspect highway construction projects more effectively and efficiently. This procurement is for PlanGrid software, which will be used on previously purchased, cellular enabled ipads.

BRnT Project Closeout

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes

Description:

Develop an application for the Infrastructure Investment Division (IID) to replace the financial project lifecycle tool. IID has the responsibility to oversee the financial lifecycle of projects, including managing the development of the Six Year Improvement Program (SYIP) and coordinating the life of the project from initial phase opening through financial closeout. The existing technology is prone to outages and has slow performance that impacts the ability of IID employees to efficiently manage the closeout process.

BRnT Regional Multimodal Mobility Program (RM3P)	
BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	
Description:	

VDOT is seeking to procure IT services and solutions to implement technologies to optimize the performance of the existing transportation infrastructure, enhance travel-time reliability for regional commuters, and support on-demand, multi-modal trip options/choices for travelers. The IT services and solutions will leverage artificial intelligence (AI) and machine learning to extract information from large data sets, develop intelligence, and present/distribute information/data in real-time to the operators and public to make decisions.

BRnT Road Network System (RNS) Needs Assessment an	
BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	
Description:	

Business Requirement to conduct a needs assessment, develop requirements and evaluate alternatives for replacing VDOT's linear referencing system (LRS) known as the Roadway Network System (RNS).

At VDOT, we have implemented a linear referencing system (LRS) known as the Roadway Network System (RNS) to manage roadway assets. Over time the amount of information managed within RNS has grown. A major component of the system, known as the roadway inventory management system (RIMS), was added a few years ago and allows end users to manage roadway characteristic data. Additional competing requirements and the resultant enhancements to the system over the last 10 years have led to a high level of complexity.

Today the data in RNS is used to produce the annual highway performance management system (HPMS) report to the Federal Highway Administration (FHWA). It is also used to assist in meeting requirements related to MAP21, the all roads network of linearly referenced data (ARNOLD), the transportation asset management plan (TAMP), the National Highway Transportation Safety Administration's (NHTSA) traffic safety records assessment, crash analysis, and more. We maintain data on roughly 127,000 lane miles of roadway with over 150 event types. The VDOT IT Division executes between 5 and 6 million dollars annually to support these activities.

We have reached a point where we deal with:

· Near constant data integrity problems
· Slow or no response to enhancement requests
· Little or no capability to handle additional data/event types within the system
· Data synchronization between supported systems (i.e. Pavement Management System) takes weeks
· In order to support the continued and growing need for the management of current and future roadway data we need to take a fresh look at the RNS and determine a future implementation plan.

BRnT RUMS Replacement

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/12/2021
Mandate:	Yes
Mission Critical:	Yes

Description:

Right of Way Management System (RUMS) is reliant on antiquated services, tools, and code. Out of date services such as Infragistics, (a software utility that manages all grid views in RUMS) creates significant IT management issues for many upgrades. The document management and delivery, which is a critical piece to the right of way property acquisition process, still utilizes an older version of MS Word documents. This out of date tool is a direct factor in the 300 – 400 users utilizing multiple versions of VDOT form letters. Cumbersome screen design, connectivity issues and an inconsistent web service, that logs users out every 20 minutes causing lost work, discourages localities and contractors from utilizing the system. These deficiencies create mass rework as well as reporting and tracking challenges on locally administered projects.

BRnT Safety Data Analytics

BRT Type:	Business Requirement for New Technology
Date Submitted:	4/16/2021
Mandate:	
Mission Critical:	

Description:

Identify and develop strategies and predictive solutions that reduce the number and severity of crashes in Virginia by enhancing its analytical tools and improving its qualitative crash analysis capabilities.

BRnT Sign Shop MRP Replacement

BRT Type:	Business Requirement for New Technology
Date Submitted:	2/10/2022
Mandate:	
Mission Critical:	

Description:

The VDOT Sign Shop currently is the E2 Shoptech MRP (Materials Resource Planning) system. E2 has indicated that that are discontinuing the online order request feature (WebView) of their system. This feature is critical to the operation of the Sign Shop and the loss of this functionality requires manual processing that effectively prohibits the Sign Shop from meeting performance measures and customer expectations. This BRT supports an effort to identify a viable replacement for the E2 Shoptech product.

BRnT Smart Parking Multi-Modal Commuter Linkage

BRT Type:	Business Requirement for New Technology
Date Submitted:	7/13/2021
Mandate:	
Mission Critical:	

Description:

Establish a Data-as-a-Service arrangement that data providers will furnish real-time parking space availability data for selected commuter parking lots. VDOT will retain non-exclusive rights to the data in perpetuity. This will be a cooperative contract for partner agencies' use.

BRnT Smarter Roads

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	

Description:

business requirement

BRnT Statewide Advanced Traffic Management Systems

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes

Description:

BRnT - VDOT Transportation Operations Centers and Statewide Advanced Traffic Management Systems Services
Purpose: To operate, integrate and innovate the state's 5 regional Transportation Operations Centers (TOC's).
Proposed Outcomes Include:
·   Improved interoperability between five TOCs through technology, people and processes.
· Developing, implementing, operating and maintaining a new state-wide ATMS platform across five TOCs that is flexible for future enhancements and includes advanced components such as interoperability, Integrated Corridor Management, Active Traffic Management and Arterial Signal Management. Increase operational efficiency and safety through economies of scale gained by having one contract for responsible for traffic operations and ATMS.
· Providing performance-based management of TOC Operations and ATMS services.
· Develop consistent standard operating procedures across the state, while accommodating regional characteristics.
· Protect and enhance current asset value/investment.
· Providing a platform for innovation of VDOT's traffic operations and an opportunity for the private sector to test new products and strategies
For more information, visit http://www.virginiadot.org/business/traffic_operations_centers.asp

BRnT Statewide Transportation Improvement Program

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	Yes
Description:	

The Statewide Transportation Improvement Program (STIP) enhancements will allow Division staff to route original and amended STIP projects to VDOT and non-VDOT stakeholders for review and approval. The enhancement included a workflow for approval routing and hierarchy.

BRnT StreetLight InSight Travel Metrics Applicatio

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	
Description:	

This is a procurement for the Secretary of Transportation, who ran the procurement and drafted the sole source documentation; VDOT's SCM reviewed and made the necessary corrections/enhancements.

The StreetLight InSight Travel Metrics subscription service allows users to access the power of Big Data for transportation planning, operations, and management. This service has been described as "the only product in the US market with a user interface that allows planners, modelers and engineers to dynamically and flexibly run core transportation analytics based on Big Data."

StreetLight Data, Inc is a data aggregator of non-sensitive transportation data. The company's service product combines data access and analytical capabilities within a bundled online subscription service arrangement.

BRnT Tolling Operations Software

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	

Description:

This procurement is to purchase 3 year term limited licenses to support the tolling operating systems until they are migrated to the cloud.

BRnT VDOT Sharepoint Upgrade

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	

Description:

VDOT has previously developed plans to migrate from its SharePoint 2010 Infrastructure to SharePoint 2016/2019 and will now use the findings in those migration plans to develop a Migration to SharePoint Online to coincide with the Governor's Executive Order 19: "Cloud Service Utilization and Readiness."

BRT Centralized Change Management Support

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/12/2021
Mandate:	
Mission Critical:	

Description:

VDOT has multiple significant change management initiatives underway. VDOT of Tomorrow is the most visible; however, there will be many others to include technology deployment. The Chief of Technology and Business Strategy has charged Business Integrated Solutions Division with establishing a change management function to serve the agency.

BRT eForms Civil Rights Title IV

BRT Type:	Business Requirement for New Technology
Date Submitted:	5/25/2022
Mandate:	
Mission Critical:	
Description:	

The Civil Rights Division (CRD) needs an automated solution that will allow it to capture and store information related to Title VI Compliance Monitoring and Review process for Local Public Agencies (LPAs) only.

Reporting is required to be a part of this automated solution. The Local Assistance Division along with VDOT Project Managers require access to this data and or reporting to verify the status of compliance for specific Local Public Agencies (LPAs).

BRT Federal Program Management

BRT Type:	Business Requirement for New Technology
Date Submitted:	5/25/2022
Mandate:	
Mission Critical:	
Description:	

Given the criticality of the work performed within the Budget and Funds Management Division (BFMD), the systems are not suitable for the division to efficiently and effectively execute and manage the department's federal program in support of project and program delivery and ensuring compliance with federal requirements. The following systems need to be replaced:
• Statewide Transportation Improvement Program (STIP) database within the Integrated Six-Year Program (iSYP) suite
• Federal Strategy database

BRT Highway Maintenance Management Support Proc

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	7/6/2022
Mandate:	
Mission Critical:	Yes

Description:

Renewal of the Operations and Maintenance Support of the Highway Maintenance Management System (HMMS) solution. VDOT requires a commercial-grade, web-based, transportation-centric HMMS solution, hosted at VITA's Commonwealth Enterprise Solution Center, to better manage and control the costs of its operations.

BRT I-66 Vehicle Occupancy Detection System

BRT Type:	Business Requirement for New Technology
Date Submitted:	7/26/2022
Mandate:	
Mission Critical:	

Description:

A service that provides automated means to identify and correct trips where-in a traveler has incorrectly set the transponder to HOV mode. The system identifies the correct number of occupants, and follows VDOT business rules to provide a warning letter or rerate as appropriate.

BRT SailPoint Identity & Access Mgmt Solution

BRT Type:	Business Requirement for New Technology
Date Submitted:	7/8/2021
Mandate:	
Mission Critical:	

Description:

Sailpoint will be implemented as the Identity and Access Management (IAM) solution for the VDOT Operations Technology Environment in support of the agency's overall cybersecurity objectives. It will allow VDOT to identify, authenticate, and authorize users to access the various applications used in support of Traffic Operations. The requirements are:

1. Deploy a separate instance of Sailpoint for use by VDOT's traffic operations infrastructure to perform statewide identity and access/authentication management capabilities.
2. Statewide security services will be provisioned at the MicroSoft Azure hosted infrastructure, including Sailpoint included in this request. VDOT is in the process of integrating the traffic operations infrastructure with MicroSoft Azure.
3. Sailpoint will integrate with each of the five traffic operations centers as well as statewide systems.
4. Support for configuring both approval workflow and onboarding workflow to meet custom needs of VDOT traffic operations including employees, contractors, traffic operations center operators, ITS field technicians, Signal field technicians, and other technology support staff.
5. VDOT's traffic operations infrastructure should be segmented "air gapped" from other infrastructure to the greatest extent possible.

Business Objects

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

C28 A26 Contractor Wage Rate Reporting

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

CADD ProjectWise Deliverables Management

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

Citrix VDOT

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

Comprehensive Environmental Data and Reporting Sys

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Contractor Performance Evaluation

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Customer Service Center myVDOT - VDOT

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Domain Controller

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Electronic Change Management System

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Enterprise Online Payment Solution

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

External Web Construction Advertisement Bulletin B

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Fleet Focus M5 - VDOT

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Geographic Information System Integrator II

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	

Description:

Associated Project: CTP20240 - EO19_VDOT_Geographic Information System Integrator II_Repurchase Project

Geotechnical Database Management System

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	

Description:

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Highway Maintenance Management System

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	

Description:

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

HR Works

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	

Description:

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Integrated Six Year Program Integrated Project Man

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

IT Portfolio and Project Management

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Iteris Performance Measurement System Count

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

K2 Enterprise

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	

Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

Location and Design Applications

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

Maintenance Program Fund Planning Tool (MPFPT)

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

Pavement Management System

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

Physical Access Control System

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021

Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

Project BAMS DSS Decision Support System

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

Project Document Management System

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

Project Expedite - VDOT

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

Project Preconstruction - VDOT

BRT Type:	Business Requirement for Existing Technology

Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

Project Proposal and Estimate System Letting and A

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

Project Site Manager - VDOT

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

Project Site Manager Access Reporting Application

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

Right of Way and Utilities Management System

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20237 - EO19_VDOT_Right of Way and Utilities Management System_Refactor/Rearchitect Project	

Roadway Inventory Management System

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

Severe Weather Application System

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

SQL Server Integration Services

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project	

SQL VDOT

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Statewide Planning System

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

System Access Request Application

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Tableau

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Team Foundation Server

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

TeamMate Audit Management System - VDOT

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Traffic Monitoring System

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Utility Bill Payment System - VDOT

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	

Associated Project: CTP20234 - EO19_VDOT_Aggregate_Refactor/Re-Architect Project

VDOT Customer Service Center System
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Virginia Center for Transportation Innovation and
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

Virginia Roads
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	
Description:	
Associated Project: CTP20238 - EO19_VDOT_VirginiaRoads_Re-Platform Project

Web Inventory Management System
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/31/2021
Mandate:	
Mission Critical:	

Description:

Associated Project: CTP20233 - EO19_VDOT_Aggregate_Re-Host Project

IT Strategic Plan Projects

Agency:	501 Department of Transportation (VDOT)
Date:	8/12/2022

Construction Prequalification Project	
Category 4	Investment Business Case Approval

 The Division would like an on-line application submission process with imbedded Business Intelligence and data storage/retrieval capabilities. This solution also addresses that the current process requires resubmission for any modifications or corrections. The experience is cumbersome for the customer and for the division as the current system does not allow for either the retention of historical data or modifications for future submissions.

Project Start Date		12/30/2022	Project End Date		2/28/2023
Estimated Costs:	**Total**		**General Fund**	**Non-General Fund**	
Project Cost		$400,000.00			$400,000.00
Estimated first year of biennium:		$200,000.00	$0.00		$200,000.00
Estimated second year of biennium:		$200,000.00	$0.00		$200,000.00

Project Related Procurements

Construction Prequalification Procurement

Digitize Bridge Inspection Reports Project	
Category 4	Project Initiation Approval

VDOT's Structure and Bridge Division requires a modern automated inspection software tool that efficiently captures data, automates workflows, integrates data across systems, and accelerates the development of reports and analysis. The proposed solution will need to automate scheduling and the workflow requirements to include electronic notifications of inspections, which are sent to the bridge inspection managers and their field staff, who conduct inspections and produce initial reports.

Electronic notifications are configurable and use email or other routing solutions to notify one or more inspectors and/or supervisors that an inspection is due. A configurable dashboard is required to maintain and display pending inspections, completed inspections, pending inspection reports, completed inspection reports. and the status of other assignments. The dashboard will allow managers at the district and central office levels to drill down and gain a perspective of pending task, completed work, and associated comments or issues.

The proposed solution will eliminate manual report creation and paper storage by automating report generation and providing commercial cloud storage.

Upon implementation, the proposed solution will receive and store up to five historical structure inspection reports for each asset. Such report will be available for recall within 60 days of startup. Complete transition of all such reports within 120 days of contract award. After implementation, all new inspection reports shall be stored in commercial cloud services for the life of the structure.

There is also a need to balance data retention and data privacy issues between the BrM system and the provider developed DBIR system, to allow for certain data elements to be retained by each system based on COV data governance requirements. This would make the control of data elements adjustable by senior managers in VDOT's Structure and Bridge Division. Continuous and/or periodic (daily) synchronization of data that is contained in both the DBIR and BrM databases will also be required.

Lastly, VDOT requires the ability to adjust DBIR data elements and values as necessary to support changes in data elements at the Federal Highway Agency.

Project Start Date		9/30/2021	Project End Date		4/15/2022
Estimated Costs:	**Total**		**General Fund**	**Non-General Fund**	
Project Cost		$2,164,000.00			
Estimated first year of biennium:		$0.00	$0.00		$0.00

Estimated second year of biennium:		$0.00	$0.00		$0.00

Project Related Procurements

Digitize Bridge Inspection Reports Procurement

Facilities Maintenance Management System Project	
Category 4	Project Initiation Approval

 Capital Outlay Division provides oversight, guidance and support for VDOT's Facility Management Program. The Facility Management Program serves a supportive role in VDOT's mission to "provide tools (i.e., technology, equipment, buildings, etc.), policies and efficient processes to ensure success for those who plan, deliver, operate and maintain the transportation system".

This project focuses on improving the processes, used by the Capital Outlay Division, to manage daily operations and provide services needed to maintain and protect VDOT facilities by implementing a centralized Facility Management system. The overall goal of this project is to implement a centralized Facility Management System (FMS) within VDOT. This centralized facility management system will allow for process standardization for Work Orders, Space Planning, Maintenance Reserve Project Planning, Facility Condition Assessments, and Routine Preventative and Responsive Maintenance Assessments. It will also serve as a foundation for Capital Project Planning.

This project will purchase and implement a SaaS centralized cloud based Facility Maintenance Management System, to allow for the tracking and reporting of work orders and projects from initiation to completion, capture expenditures and inventory, provide enhanced and aggregate reporting, provide for more transparent project prioritization and budget allocation and allow for more accurate budget planning and maintenance schedule

Project Start Date		10/27/2020	Project End Date	3/31/2023
Estimated Costs:	**Total**		**General Fund**	**Non-General Fund**
Project Cost		$1,033,326.63		$1,447,532.28
Estimated first year of biennium:		$0.00	$0.00	$0.00
Estimated second year of biennium:		$780,150.89	$0.00	$780,150.89

Project Related Procurements

Facilities Maintenance Management System Procureme

Human Capital Management Cloud Implementation Proj

Category 2	Project Initiation Approval

 VDOT HR is looking to implement an integrated SaaS solution to replace several HR systems that are outdated and are unsupported or are using soon to be-unsupported technologies. The SaaS solution will automate the processes and sub processes involved in recruiting, hiring, onboarding, performance management, compensation, health and safety, HR administration, succession, and the HR help desk. The solution will support agency initiatives such as VDOT of Tomorrow, the Agency Business Plan, and the Governor's mandate for Cloud Technology.

Project Start Date	5/3/2021	Project End Date	6/28/2024

Estimated Costs:	Total		General Fund	Non-General Fund
Project Cost	$5,725,738.00			$8,074,033.00
Estimated first year of biennium:	$327,273.00		$0.00	$327,273.00
Estimated second year of biennium:	$2,163,120.00		$0.00	$2,163,120.00

Project Related Procurements

Human Capital Management Cloud Implementation Proc

Land Use Outdoor Advertising Permit Project

Category 4	Project Initiation Approval

 The Office of Land Use and Outdoor Advertising (OA) utilize 3 systems for permitting: The Land Use Permit System (LUPS) is used to issue and track land use permits as well as collect sureties and fees; The Online Application allows citizens, localities, corporations, and utility companies to submit permit applications and pay the fees; and the Outdoor Advertising, an MS Access database in conjunction with GIS and a GIS plugin to manage their day to day business of issuing and controlling sign permits. The permitting process between LU and OA are similar, however, it is the desire of the business to find a single solution that will address the needs of both groups if possible.

The business wants a permit system that is more streamlined, has less user intervention (more automated than the current system), and interfaces with the GIS system that can be used for both Land Use and Outdoor Advertising. The system should reduce cycle time and improve the accuracy of managing permits.

Project Start Date		12/1/2021	Project End Date	6/14/2023
Estimated Costs:	**Total**		**General Fund**	**Non-General Fund**
Project Cost	$1,797,276.00			$1,797,276.00
Estimated first year of biennium:	$0.00		$0.00	$0.00
Estimated second year of biennium:	$520,424.40		$0.00	$520,424.40

Project Related Procurements

There are no procurements for this project

RUMS Replacement Project	
Category 3	Investment Business Case Approval

The VDOT Right of Way (ROW) and Utilities Management System (RUMS) manages the process where a road construction Notice to Proceed (NTP) document is used to coordinate mandatory pre-construction activities including providing a comprehensive cost estimate on all potential necessary acquisition and damage costs, coordinating with the impacted utility companies to understand their needs, communicating with railroad companies to ensure that VDOT can obtain the proper right of entry agreements, ensuring that any special circumstance parcels within the project scope are handled in accordance with state or federal law, if VDOT and a landowner are unable to agree then managing eminent domain proceedings and final reimbursement and validation of any relocation expenses, managing any parcel remnant or whole parcel that was not utilized during construction, handling all lease agreements and payments as well as any state or utility conveyance of property, mitigating and gravesite or cemetery relocations, and all processing FOIA requests related to the above activities.

RUMS is mostly functional but, at 15 years old, the system is reliant on antiquated services, tools, and code. Out of date services such as Infragistics, which is a software utility that manages all grid views in RUMS, creates significant IT management issues for many upgrades. The document management and delivery, which is a critical piece to the right of way property acquisition process, still utilizes an older version of MS Word documents. This causes the 300 – 400 users, spread out amongst districts and contractors, to use non-standardized versions of VDOT form letters. RUMS has a cumbersome screen design, connectivity issues, and an inconsistent web service that logs out users every 20 minutes. This results in lost work which discourages localities and contractors from utilizing the system. These deficiencies create mass rework as well as reporting and tracking challenges on locally administered projects.

The RUMS replacement software will either be housed at QTS or will be a SaaS cloud offering, depending on the architecture of the proposal that wins the RFP bid.

Project Start Date		10/1/2021	Project End Date	6/30/2023
Estimated Costs:	**Total**		**General Fund**	**Non-General Fund**
Project Cost	$4,961,100.00			$4,961,100.00
Estimated first year of biennium:	$3,156,480.00		$0.00	$3,156,480.00
Estimated second year of biennium:	$1,804,620.00		$0.00	$1,804,620.00

Project Related Procurements

RUMS Replacement Procurement

SMART Portal 2022 Project

Category 4		Project Initiation Approval	

The scope of this project is to deliver new and enhanced functionality within the SMART Portal web application allowing for program pre-application submission, new application submission to multiple programs, enhancements to the validation/screening/ scoring processes, and improving the user interface to update decisions online.

Project Start Date		4/1/2021	Project End Date	8/31/2023
Estimated Costs:	**Total**		**General Fund**	**Non-General Fund**
Project Cost	$3,732,652.02			$3,993,000.00
Estimated first year of biennium:	$0.00		$0.00	$0.00
Estimated second year of biennium:	$1,964,100.00		$0.00	$1,964,100.00

Project Related Procurements

SMART Portal 2022 Procurement

Traffic, Traveler and Road Information (TTRIP) Ser

Category 4	Project Initiation Approval

VDOT is seeking a Supplier to provide and securely manage a cloud-based suite of traffic, travel and road information services and specialized tools. This will be done through a single platform to serve a variety of stakeholders including: Internal VDOT operations centers, VDOT operators, VDOT executives, Public safety partners, Media members, Travelers, and the Connected and automated vehicle (CAV) community.

The Supplier will provide distribution services for designated VDOT operations-related transportation video and data generated in transportation operations and traffic engineering functions across VDOT. Distribution methods may include: Web, Mobile application (iPhone and Android), Digital voice assistant, IVR and Automated data services or application program interfaces (APIs) of various file types.

The project approach is to source a Supplier that can provide a comprehensive service that VDOT wishes to provide to the internal and external end users. VDOT does not have the ability to build and provide the services in-house and therefore seeks a comprehensive Supplier solution approach to the business problem.

The project serves the following customers: Internal staff at all levels, Traveling public, Public Safety Partners, Researchers, Media, 3rd Party entities such as the Commercial Vehicle and Connected and Autonomous Vehicle providers, and Automotive manufacturers.

The expected internal and external benefits:

-Emergency response and readiness through the ability to see in real-time what the roadway looks like across the state with a network of over 1,300 traffic cameras.

-Incident detection and awareness- VDOT operations staff outside a given TOC can view incidents quickly by monitoring the feeds of camera images through this system. VDOT can respond more quickly to incidents that are observed including severe road conditions.

-Moving to a cloud-based platform solution- VDOT is seeking a vendor that proposes a cloud-based platform for the video and data service which will achieve compliance with EO19.

-Innovation to government services- the RFP and contract contains requirements to present and infuse innovation into the program over its lifecycle. The Supplier will be required to host an Innovation Summit for VDOT once a year to showcase potential technologies that may improve the program.

-Ability to change and grow the service as innovation drives change- The RFP and subsequent contract has provisions for growth and change to the service over time to include innovation requirements.

-Provide a tool to directly support Incident Command Managers (IMCs) in providing real-time, updated incident information to multiple levels of agency management simultaneously and efficiently through the app developed as a result of this RFP and contract.

-Reducing staff time by producing a reduction in phone calls to the Transportation Operations Centers and management – The reduction will be a direct result and benefit from the Incident Command app.

-Ability for IMCs to focus on the task at hand rather than making several phone calls to management through use of the new tool.

-Provide innovation to the end-users through the use of the mobile app, web and digital voice assistant products that will receive continuous innovative updates.

-Provide apps for smartphones- this will provide real time benefits for travel and for travel planning with hands-free infotainment integration.

-Provide website- the website will provide a multitude; of intangible benefits dependent on who is accessing the data. Video feeds, road closure reports and condition reports will be provided which will be used in many ways.

-Digital Voice Assistant- through the end user distribution, users will have access to a conversational communication mechanism much like speaking to an Amazon Alexa device or a smartphone voice recognition system. The users will be supported by continuing to have access to a phone service to retrieve road reporting for those that do not have a smart phone or prefer a dial-in capability. The service will also be integrated into a mobile app that will provide hands-free benefits to accessing data.

-APIs and data distribution portal- These benefits will provide data feeds and downloadable data to travelers, internal operators, media members and other service partners which are then used in many ways. Currently, we provide data feeds to service partners, researchers and private entities that use the data to create their own apps and websites.

-VDOT provides a free public service through this solution that provides all the benefits listed above and other intrinsic benefits.

-For example, the Texas Transportation Institute (TTI) 2019 Mobility Report estimates that a passenger vehicle caught in a 1 hour long congestion on a road equates to a financial loss of $18.12 per person in urban areas. For Commercial vehicles the financial loss increases to $52.14 per vehicle per hour. If our system were to save 1,000 hours of delay weekly across vehicles containing 1.5 persons that number would be an estimated $27,180 a week. If we take that analysis out further for a year period, we could save those same people an estimated $1,413,360! This is just a simple example, if we additionally considered Commercial vehicles, the penetration rates on decision making imposed by our system, and other research factors the system is clearly a benefit to society. As another example, let's say we save commercial vehicles a total of 1,500 hours per week in Virginia from sitting in traffic- VDOT saves them $78,210 weekly which equates to a yearly industry savings of $4,066,920 in lost productivity.

-VDOT will receive cost avoidance benefits from the service to include not: expanding call center facilities and staffing, procuring stand-alone CCTV integration, creating a web tool for truck parking, and buying additional dynamic portable and static roadside messaging signage.

Project Start Date		9/30/2021	Project End Date	6/30/2022
Estimated Costs:	**Total**		**General Fund**	**Non-General Fund**
Project Cost		$4,428,092.00		$4,428,092.00
Estimated first year of biennium:		$0.00	$0.00	$0.00
Estimated second year of biennium:		$4,428,092.00	$0.00	$4,428,092.00

Project Related Procurements

Traffic, Traveler and Road Information Program (TT
Inrix Data MOU Procurement

Data Stage Upgrade Project	
Category 4	Project Initiation Approval

This project will upgrade the DataStage technology platform to the version 11.7. DataStage is used to create and manage integrations using Extract, Load and Transform (ETL) processes.   The version upgrade will include upgraded infrastructure. The project will also implement the IBM Infosphere Information Governance Catalog (IGC). This software is used to manage data across the enterprise by tracking where and how it is used in integrations. This will enable improved data management at VDOT.

The upgrade of DataStage will be performed by Triad, the vendor supporting DataStage, to include installing the upgraded software, modernizing scripts as needed to be compliant with the new version, and unit testing. VDOT will support the vendor with implementation of infrastructure, subject matter expertise regarding VDOT assets, system engineering, database administration, system integration testing, acceptance testing and modernization of a small number of scripts with deprecated features that take them out of scope for the Vendor.

The implementation of the IGC will be performed by the Vendor to include installing the software, configuring it based on VDOT requirements, and importing VDOT assets into the catalog. VDOT will support the Vendor with implementation of infrastructure, subject matter expertise of VDOT assets, system engineering, database administration and acceptance testing.

Project Start Date		7/1/2021	Project End Date		11/18/2022
Estimated Costs:	**Total**		**General Fund**	**Non-General Fund**	
Project Cost		$3,560,204.46			$3,560,203.00
Estimated first year of biennium:		$794,167.00	$0.00		$794,167.00
Estimated second year of biennium:		$2,533,834.00	$0.00		$2,533,834.00

Project Related Procurements

There are no procurements for this project

AI-Based System for Incident Management Project	
Category 3	Project Initiation Approval

VDOT is requesting that the Offeror propose an innovative solution that meets the following high-level needs and functions for the AI-DSS:

● Predict/project transportation events (location, expected duration, severity) that will occur in a customer-configurable future period, such as between 15 minutes and an hour into the future;

● Predict/project traffic congestion (location, expected duration, intensity) that will occur between 15 minutes and an hour in the future;

● Predict/project transit crowding that will occur between 15 minutes and an hour in the future;

● Predict/project the availability of parking spaces at selected individual regional parking facilities between 15 minutes and an hour in the future during AM Peak;

● Develop multi-modal, multi-agency response plan elements through coordination and agreement with regional operating agencies;

● Develop business rules and operating procedures for responding to incidents and congestion through coordination and agreement with regional operating agencies;

● Recommend response plan elements for actual and predicted transportation incidents and the expected impact of the response plan;

● Recommend response plan elements for actual and predicted traffic congestion;

● Recommend response plan elements for actual and predicted transit crowding conditions;

● Provide a data interface for parking availability predictions to send data and prediction information to the RM3P Data-Exchange Platform (DEP);

● Provide a web-based graphical user interface that authorized transportation operators can view modify, and coordinate recommended response plans;

● Provide response plan recommendations to regional stakeholders in various formats including but not limited to an API for agency operating systems to integrate the DSS data, a web-based GUI, and alerts in text and email format;

● As a separate option to the AI-DSS project, the Vendor for the Data Incentivization (DI) project may need to generate triggers within the DSS to implement various DI strategies. The AI-DSS vendor may be asked to develop an interface for the DI vendor to connect to the AI-DSS system and provide documentation for the DI triggers in the response plans. This work is an optional task, and will require separate pricing during the technical proposal pricing phase; and

● Provide a data interface to the RM3P Data-Exchange Platform (DEP) to send prediction information, response plan recommendations, and the executed response plan elements.

● Develop a data interface to the DEP to obtain current traffic, transit, and parking information.

The Offeror will propose its System-as-a-Service approach based on its expertise and proposed technologies; teaming arrangements are encouraged. VDOT is open to innovative solutions and the Offeror shall detail how its solution meets the needs and functions listed above.

Below is a list of probable elements in an AI-DSS solution. VDOT anticipates that these components or capabilities are likely to be reflected in Offerors' responses. Where specific elements are not needed, Offerors should explain the work-around.:

Rules Engine

The Rules Engine contains the logic to make determinations based on pre-defined rules. This includes monitoring current conditions to determine when a response plan needs to be created, updated, or deactivated; and developing response plans from a set of rules applied to current conditions.

Modeling Engine

An AI-DSS Modeling Engine may be used for evaluation and development of various response plans and events within the corridors and hot spots listed in the Predictive Engines section. The Model may be used by the selected Offeror to assist in the training of its predictive service.

Response Plans

Several agencies within the region have existing response plans and standard operating procedures (SOP) for events within their areas of responsibility. The selected Offeror/Vendor may use the existing response plans and SOPs. It shall develop a new set of coordinate; response plan elements for general and/or specific events identified by VDOT and its partners. These response plan elements can be specific actions for types of events, or full pre-agreed response plans for specific locations of events

Predictive Engines

The selected DSS Vendor will provide incident prediction based on current conditions; roadway congestion and transit crowding prediction; and parking availability prediction using their proposed technology. The Vendor shall develop and present methods for ensuring practical, time-efficient, and ethical decision-making when training the Predictive Engine and the resulting predictions.

Incident Prediction

A predictive service will be provided to calculate the risk of an incident occurring in the next 15 to 60 minutes (location, expected duration, severity) with a confidence interval per prediction (i.e., crash at location X in 30 minutes, 60% confidence). A minimum confidence interval will be configurable, and initially will be agreed to by the selected Offeror and VDOT for notification. Response plan rules may take the confidence interval into consideration when recommending whether a response plan is needed.

Congestion Prediction

A predictive service will be provided to calculate the risk of non-recurring roadway congestion and transit crowding occurring in the next 15 to 60 minutes (location and length of queue, expected duration) with a confidence interval per prediction. A minimum confidence interval will be configurable, and initially will be agreed to by the selected Offeror and VDOT for notification. Response plan rules may take the confidence interval into consideration when recommending whether a response plan is needed.

Parking Prediction

A predictive service will be provided to calculate the expected availability at individual commuter parking facilities within the region over the next 15 to 60 minutes. Predictions are to be generated during the weekday AM rush hour and during special events identified by VDOT; prediction is not required for other time periods. A minimum confidence interval will be agreed to

by the Vendor and VDOT for notification.
Response Prediction
A predictive service will be provided to calculate the response plan elements and their expected impact/benefit for various events.

Project Start Date		10/1/2021	Project End Date	10/31/2024
Estimated Costs:	**Total**		**General Fund**	**Non-General Fund**
Project Cost	$9,610,000.00			$9,110,000.00
Estimated first year of biennium:	$0.00		$0.00	$0.00
Estimated second year of biennium:	$1,075,000.00		$0.00	$1,075,000.00

Project Related Procurements

AI-Based System for Incident Management Procure

Multimodal Mobility Enhancement DI Project	
Category 3	Project Initiation Approval

 The purpose of the Dynamic Incentivization (DI) project is to improve safety, reliability, and mobility for travelers in or through Northern Virginia. The DI solution will offer incentives to the public for changing mode, route, or departure time in ways that lessen the overall impact of congestion and incidents. For example, if there was a major crash on Interstate 95 (I-95) that could impact travel in Northern Virginia, commuters who regularly drive that route might be offered an incentive to delay their departure or take transit. The goal of DI is to incentivize and reward a relatively small number of commuters who have the willingness and flexibility to safely change their travel patterns in a way that improves the efficiency of the transportation network as a whole. An additional goal of the solution is to change travel behaviors in the long-term, so the solution will also reward travelers for continued use of travel modes that reduce or eliminate Single-Occupant Vehicle (SOV) trips. While the initial deployment of DI will be limited to NOVA, the solution must be capable of scaling to other parts of the Commonwealth as well.

The incentives will be organized into three complementary programs:
● Dynamic Incentives – Created in real time in response to incidents.
● Challenges – Short-term incentives in response to planned events (e.g., construction, Metro station maintenance closures) or to reinforce specific behaviors.

● Loyalty Incentives – Long-term incentives to reinforce the use of active and shared modes.

These incentives are intended to encourage behavior changes that reduce the impacts of incidents and planned events and decrease usage of SOVs.

Northern Virginia and other parts of the state have several successful Transportation Demand Management (TDM) programs or commuter assistance programs (CAP) already in operation. These programs include manually managed programs, as well as program websites and app-based solutions. The goal of the DI solution is to work with regional stakeholders to enhance and complement these programs. For automated systems DI will support technical integration, and for manual systems DI will encourage local TDM program managers to provide input into the business rules guiding incentive offers.

Financial sustainability is an important aspect of this element. Program sponsors cannot provide financial backing for incentives indefinitely, and must find ways to reduce or eliminate the long-term need for using public dollars to fund incentives and rewards. This could include existing agency partners contributing in-kind incentives such as discounted parking or transit passes, cultivating new relationships with private-sector vendors who can provide incentives in exchange for the exposure it offers them and their partners, or any other creative solution the DI vendor can offer to reduce or eliminate the need for public funding of incentives. In addition, the program must establish and grow a significant adoption rate among travelers. This will require ongoing marketing efforts and focus groups to identify ways to tailor the program to provide real value to commuters.

Dynamic Incentivization
Dynamic incentives will be offered in real-time based on the current transportation conditions as a part of an incident and congestion management operation strategy. DI will offer incentives to the public using one or more mobile apps, of which one will be developed by the DI project, with a strong focus on those who drive alone. The system architecture will be structured to allow multiple app providers to access the incentive solution, and the goal is that over time multiple app providers will join in the system, giving consumers a choice in how they access DI rewards.

Incentive Loyalty
The loyalty program will function much like a loyalty program for hotels or airlines, but will encourage use of active or shared modes. Within the loyalty program, travelers will be able to gain status and progress towar; long-term rewards for consistent use of non-SOV travel. The user interface will use gamification principles to keep users engaged. The dynamic incentives will induce behavior changes, and the loyalty program will reinforce behavior changes.

Challenges
The challenge program will offer incentives for highly targeted short-term behavior changes. An offer might be valid for a week or a month and be based on very specific behavior such as taking a particular Metro line five times in a week. The goal may be to respond to an ongoing event (such as construction or promotion of Virginia's Try Transit Week) or to encourage behavior change for those users who need a stronger or more targeted nudge. Planning for challenges will be closely

coordinated with program managers for existing TDM programs.

The three programs (dynamic, loyalty, and challenge) will all work together to consistently change traveler behavior to adopt more desirable travel choices. The incentives are part of a TDM strategy and will be designed to encourage and sustain non-SOV choices.

Ecosystem

VDOT is leading the development of an Artificial Intelligence-Based Decision Support System (AI-DSS), which will act as the trigger for the need of offering dynamic incentives. The AI-DSS will generate a complete response to an incident and one part of that may send a trigger to the DI back-end to generate and issue a dynamic incentive. Alternatively, this project can generate its own trigger for offering DI. DI will also store and share aggregated numbers for responses to dynamic incentive offers with the regional Data-Exchange Platform (DEP) so that planners and the system can accurately estimate how many travelers will respond to dynamic offers.

Multiple agencies operating within the region currently provide incentives through their manually operated TDM or CAP programs. DI will provide those agencies opportunities to define business rules within the DI back-end, which promote their demand management goals, consistent with regional goals.

The Loyalty and Challenge program described herein is to be active across NOVA. The Dynamic Incentives program will initially be limited to specific corridors and "hot spots" within NOVA but will expand over time. The DI initiative will be scalable for easy geographic expansion as conditions and funding merit.

The DI solution is designed to work with multiple apps, so that a user may access the system from more than one app. However, a given user will have a single account in the back-end, and any app(s) participating in the DI ecosystem will connect to the same back-end account. No matter how many apps someone uses, progress towards incentive goals will accrue in a single place in the back-end, so that users do not receive double credit if a single trip is reported by multiple apps, or receive multiple incentives for the same trip.

Project Start Date		10/15/2021	Project End Date	9/30/2022
Estimated Costs:	**Total**		**General Fund**	**Non-General Fund**
Project Cost		$5,700,010.00		$3,200,000.00
Estimated first year of biennium:		$0.00	$0.00	$0.00
Estimated second year of biennium:		$466,666.00	$0.00	$466,666.00

Project Related Procurements

Multimodal Mobility Enhancement DI Procurement

OT Service and Asset Management Solution Project	
Category 4	Project Initiation Approval

VDOT currently uses several tools to manage information for assets connected to the OT (Operations Technology) environment. The existing tools capture independent information about OT assets. This effort will fully integrate VDOT OT assets into a single statewide consistent approach.

All edge devices (e.g., traffic signals, highway message signs, highway cameras), cabinets, network switches, firewalls, TOC servers/desktops, etc. and other digital component asset information will be maintained in a statewide system, identified as Operations Technology Service and Asset Management (OTSaAM). This includes all Intelligent Transportation Systems (ITS) devices and components (e.g., controllers, cameras, dynamic message signs, firewalls, routers) and all traffic signal system components (e.g., controllers, signals, switches, routers, firewalls, detection devices). As old devices are retired, new devices are added, or exciting devices have configuration change on the OT environment the OTSaAM will reflect these actions. The OTSaAM will be the master data source (i.e. golden record) for all OT device asset information. As such it will be the source for all SOC (Security Operations Center), NOC (Network Operations Center), and IAM (Identity and Access Management) activities further articulated in the forthcoming ConOps.

The OTSaAM will serve and support several functions for the OT environment:
1. Provide integration point for OT tools, processes, and services, including:
* Asset inventory & attribute management
* Asset and network service management
* Change & configuration management
* Ticketing and resolution management
* Asset discovery
* Asset segmentation & device testing
2. Deliver reporting on all aspects of OT security monitoring
3. Provide a comprehensive OT NOC (Network Operations Center)
4. Develop an operations and maintenance plan for OT

VDOT will ask Suppliers to provide the following services:

* Develop detailed technical design for VDOT's OTSaAM including connections to the Security Operation Center, the Identity and Access Management solution, Statewide Traffic Signal System, OSPInsight, and the Statewide ATMS
* Implement CalemEAM as the OTSaAM, including the data integration of existing signal assets from HMMS
* Implement an OT Network Operations Center (NOC) to serve all aspects of OT

The contracts resulting from these procurements will ensure Operations Technology is secure, resilient, and compliant with applicable polices and standards, and will enable VDOT to address and remediate finding identified in the 2018 OT Cybersecurity Assessment.

Project Start Date		10/15/2021	Project End Date		12/31/2021
Estimated Costs:	**Total**		**General Fund**	**Non-General Fund**	
Project Cost		$1,540,000.00			$1,540,000.00
Estimated first year of biennium:		$0.00	$0.00		$0.00
Estimated second year of biennium:		$660,000.00	$0.00		$660,000.00

Project Related Procurements

OT Service and Asset Management Solution Procureme

Internal Talent Opportunity Marketplace Project	
	Investment Business Case Approval

 Implement a COTS solution that will enable managers to post technical resource needs when their staff is at capacity. The solution would match these requests with employees who have indicated they have the appropriate skillset and availability to complete the work assignment.

Project Start Date		10/15/2021	Project End Date		1/1/2024
Estimated Costs:	**Total**		**General Fund**	**Non-General Fund**	
Project Cost		$300,000.00			
Estimated first year of biennium:		$0.00	$0.00		$0.00
Estimated second year of biennium:		$0.00	$0.00		$0.00

Project Related Procurements

Internal Talent Opportunity Marketplace Procuremen

Hire Vue Interviewing Tool Project	
Category 3	Investment Business Case Approval

Hire Vue is a Video Interviewing Tool which will allow potential candidates to submit a one-way video to the interviewing panel which contains their answers to pre-selected interview questions. HireVue enables a faster, fairer, friendlier hiring experience for hiring teams and candidates alike. The software integrates with market-leading ATS and calendar systems to streamline the most tedious and time-consuming hiring activities with conversational ai, video interviewing, assessments, and automated scheduling. On one platform, to solve hiring challenges, from time to hire to new hire diversity to candidate experience.

Project Start Date		9/15/2021	Project End Date		1/1/2024
Estimated Costs:	**Total**		**General Fund**	**Non-General Fund**	
Project Cost		$3,307,300.00			$3,307,300.00
Estimated first year of biennium:		$0.00	$0.00		$0.00
Estimated second year of biennium:		$0.00	$0.00		$0.00

Project Related Procurements

Hire Vue Interviewing Tool Procurement

Occupational Health Tracking System Project	
	Investment Business Case Approval

To create an easy tracking system where program managers, managers and employees can be monitor and report on compliance with the following (and any new as mandated): 
house and track: Employees enrolled in VDOT's Occupational Health Programs requiring OSHA, FMCSA or USCG-required medical surveillance
Hearing Program
Respirator Program 
Silica Program
Lead Program 
Hexavalent Chromium Program 
Commercial Driver Program Mariner Program
Enrolled employees' compliance with medical surveillance requirements (e.g. Clearance Expiration) Respirator Clearance – Expiration Silica Clearance – Expiration DOT Medical Certificate – Expiration USCG Medical Certificate – Expiration Lead – Cleared/Not Cleared Hexavalent Chromium – Expiration Audiometric Testing – Expiration
• Medical Record so Respirator Clearance (Employer Copy)
Silica Clearance Document (Employer Copy)
FMCSA/DOT Medical Examiner Certificate so Blood-lead level results*
USCG Application for Medical Certificate CG 719k forms*Audiograms*

Project Start Date		5/10/2021	Project End Date		1/1/2024
Estimated Costs:	**Total**		**General Fund**	**Non-General Fund**	
Project Cost		$600,000.00			$600,000.00
Estimated first year of biennium:		$0.00	$0.00		$0.00
Estimated second year of biennium:		$0.00	$0.00		$0.00

Project Related Procurements

Occupational Health Tracking System Procurement

Data Query Tool Project	
	Investment Business Case Approval

The overall vision of this project is to build the same functionality as the existing query tool on an ITD supported system/platform. This information is used in planning, designing, maintaining and restoring structures that come under the Commonwealth of Virginia. The existing query tool was developed over a decade ago on an antiquated system; as a result, updating it is extremely difficult. This request will migrate data flow and use data from the data warehouse. This query tool will use data from the Construction Division and the Structure and Bridge Division, as well as iPM, Falcon and other applications.

Project Start Date		5/10/2021	Project End Date	1/1/2024
Estimated Costs:	**Total**		**General Fund**	**Non-General Fund**
Project Cost		$662,204.40		$377,000.00
Estimated first year of biennium:		$0.00	$0.00	$0.00
Estimated second year of biennium:		$0.00	$0.00	$0.00

Project Related Procurements

There are no procurements for this project

Web Content Management DXP Project	
Category 4	Project Initiation Approval

This Project focuses on establishing a new Digital Experience Platform (DxP) to host and manage VDOT's publicly facing websites that are managed by the Communications Division. This is required to eliminate the current VITA hosting of these websites and to address end of contract licensing and end of life for VDOT's current Crown Peak Content Management Platform.

A new DxP is required to provide the following:

Close security gaps with the latest infrastructure and source code as defined in an ISO (information Security Office) Audit.

Enable compliance with Executive Orders 47 and 508 (colors, font sizes, translation, etc.)

Support web accessibility by supporting content in other languages

Upgrade legacy code

Reduce the technical skill needed to maintain, redesign, and enhance websites

Provide a Mobile friendly design

VDOT's public facing web properties are not accessible, have language translation barriers, do not promote safe travel across our state, have security vulnerabilities, and have a legacy design and infrastructure. This project will improve the overall user experience on our VDOT web properties for Virginia citizens and will make the maintenance/management of our websites easier for the Communications and ITD teams.

Project Start Date		7/1/2022	Project End Date	6/28/2024
Estimated Costs:	**Total**		**General Fund**	**Non-General Fund**
Project Cost	$2,410,639.00			$2,410,639.00
Estimated first year of biennium:	$0.00		$0.00	$0.00
Estimated second year of biennium:	$0.00		$0.00	$0.00

Project Related Procurements

Web Content Management DXP Procurement

Traffic Monitoring System Replacement Project

	Investment Business Case Approval

This request will ensure all traffic count users have reliable access to both raw and summary traffic data. 1. Update technology to ensure sustainability of system
2. Update business user interface to allow more intuitive data query
3. Update end user interface(s) to allow more user 'self-service'
4. Provide download site that allows more powerful query capabilities (Inside and Outside VDOT)
5. Update data input interface to reduce time managing data input while maintaining data quality
6. Ensure all reporting (inside and outside VDOT) is using SSR (master) data

Project Start Date		11/1/2021	Project End Date	1/1/2024
Estimated Costs:	**Total**		**General Fund**	**Non-General Fund**
Project Cost		$5,368,200.00		$5,368,200.00
Estimated first year of biennium:		$0.00	$0.00	$0.00
Estimated second year of biennium:		$0.00	$0.00	$0.00

Project Related Procurements

Traffic Monitoring System Replacement Procurement

OT Security Network Detection and Response Project

	Investment Business Case Approval

 VDOT is procuring and implementing the Forescout Network Detection and Response solution to enhance the cybersecurity posture of the Operations Technology environment.

Project Start Date			Project End Date	12/30/2021
Estimated Costs:	**Total**		**General Fund**	**Non-General Fund**
Project Cost		$828,021.70		$749,050.10
Estimated first year of biennium:		$0.00	$0.00	$0.00

Estimated second year of biennium:	$0.00	$0.00		$0.00

Project Related Procurements

There are no procurements for this project

PPE Lane and Software Upgrade Project	
Category 4	Project Initiation Approval

 New multi-protocol tag readers, and software upgrades to bring the legacy installations for toll violations, and back-office integration modules for VDOT to meet the new EZPass interface requirements that are anticipated to be in place E-ZPass wide this coming calendar year. (PPE stands for Powhite Parkway Extension)

Project Start Date		1/26/2022	Project End Date	4/1/2023

Estimated Costs:	Total		General Fund	Non-General Fund
Project Cost	$1,745,086.30			$1,745,086.35
Estimated first year of biennium:	$0.00	$0.00		$0.00
Estimated second year of biennium:	$0.00	$0.00		$0.00

Project Related Procurements

There are no procurements for this project

eForms Civil Rights Title IV Proj	
	Investment Business Case Approval

 The Civil Rights Division (CRD) needs an automated solution that will allow it to capture and store information related to Title VI Compliance Monitoring and Review process for Local Public Agencies (LPAs) only. 

Reporting is required to be a part of this automated solution. The Local Assistance Division along with VDOT Project Managers require access to this data and or reporting to verify the status of compliance for specific Local Public Agencies (LPAs).

		Project End Date	4/28/2023
Project Start Date	8/1/2022		
Estimated Costs:	**Total**	**General Fund**	**Non-General Fund**
Project Cost	$370,600.00		
Estimated first year of biennium:	$0.00	$0.00	$0.00
Estimated second year of biennium:	$0.00	$0.00	$0.00

Project Related Procurements

There are no procurements for this project

IT Strategic Plan Procurements

Agency:	501 Department of Transportation (VDOT)
Date:	8/12/2022

Stand Alone Procurements:

Procurement Name:	AASHTOWare License Renewal FY22-FY26 Procurement
Procurement Date	6/30/2026
Procurement Description:	Software and license renewal including additional service units for AASHTOWare products, including but not limited to AASHTOWare Bridge Management; AASHTOWare Pavement & AASHTOWare Project Estimator.

Procurement Name:	Automated Fuel Management Program Software Upgrade
Procurement Date	4/1/2020
Procurement Description:	AFMP Hardware and Maintenance, Software Maintenance, Training and Professional Services We confirm that this procurement is in accord with the Chief of Staff April 2 memorandum, which outlined a number of measures to reduce or eliminate agency spending due to the COVID-19 crisis. We have also attained all internal and external budget approvals necessary to complete this transaction.

Procurement Name:	Automated Vehicle Systems Mapping Procurement

Procurement Date	2/1/2022
Procurement Description:	Document and deliver detailed system mappings of VDOT systems that will need to ingest Connected and Automated Vehicle (CAV) data and to share VDOT data in support of CAVs and to identify whether the systems are capable of doing so or if adjustments need to be made.
Procurement Name:	Bentley Enterprise License Subscription (ELS) & Pr
Procurement Date	4/1/2019
Procurement Description:	Bentley is the sole source to renew the Enterprise License Subscription (ELS) ProjectWise Connect Edition Subscription for VDOT. No other vendors can perform the specific functions required by VDOT. Bentley is the prime contractor and is responsible for maintenance of all Bentley supplied software. Bentley provides a comprehensive software support program through its Bentley SELECT Program, as well as enhanced licensing through its Enterprise License Subscription (ELS). The new contract for Bentley Enterprise License Subscription (ELS) and ProjectWise Connect Edition Subscription (PWCE) would be a 5 Year Contract (2 year term with 3 one-year optional extensions). This contract covers license, maintenance, support, upgrades, professional services, and training for all ELS eligible software owned by Bentley Systems, Inc.
Procurement Name:	EBB Licensing Subscription Renewal FY 23 Proc
Procurement Date	6/30/2023
Procurement Description:	VDOT has increased the number of EBB units in the field from 250 to 315. Moving to Enterprise Licenses will save the agency money and will continue to improve agency communications to field level staff that do not have regular access to VDOT computers.
Procurement Name:	ESRI Enterprise License Renewal FY23-24 Proc
Procurement Date	6/28/2024

Procurement Description:	VDOT utilizes ESRI ArcGIS products as its GIS platform supporting the business and citizen needs. This procurement will provide product support for an additional three years.
Procurement Name:	Fleet Cross Subscription Services Procurement
Procurement Date	10/12/2020
Procurement Description:	The service provide by MOTOR Fleet Cross provides a custom indexing solution for Fleet Equipment (trucks and ground equipment -backhoes/motograder/loaders) that allows for web based access to VDOT owed Service and Maintenance Manuals provided with the equipment at the time of purchase. This custom built solution provides fast and accurate access to repair manuals for repair and parts ordering activities. This solution is the best alternative to provide this type of service.
Procurement Name:	Gartner Membership Renewal FY23-24 Procurement
Procurement Date	6/28/2024
Procurement Description:	Gartner membership renewal licenses will be used by IT resources for research, analysis, and professional assistance. Research Executive Programs Leadership Team Plus for Leader plus Advisor Members for IT News and Insight. Licenses will be used by IT resources for research, analysis, and professional assistance.
Procurement Name:	Geospatial Migration Services Procurement
Procurement Date	1/29/2021

Procurement Description:	This procurement will provide dedicated geospatial migration services in support of the upgrade effort which is part of EO19 mandate initiative to modernize, upgrade and move the systems to cloud. This is especially required for Enterprise GIS Environment, RNS, Integrator, and CEDAR, where the integrations between these systems will not only be detailed but also the connections with other enterprise systems (iSYP, BMS,TMS, PMS, CSC/HMMS, etc.) This procurement will help VDOT migrate these select key systems to the cloud effectively.
Procurement Name:	Highway Maintenance Management Support Proc
Procurement Date	7/29/2022
Procurement Description:	VDOT seeks to renew the Operations and Maintenance Support of the Highway Maintenance Management System (HMMS) solution. VDOT requires a commercial-grade, web-based, transportation-centric HMMS solution. This system enables VDOT to better manage and control the costs of its operations and provide timely information and reporting on the 57,867 miles of roads that VDOT maintains in the Commonwealth. This solution is currently hosted at QTS.
Procurement Name:	Inrix Data MOU FY23-27 Procurement
Procurement Date	6/30/2027
Procurement Description:	VDOT will issue a MOU to the University of Maryland (UMD) to obtain a data subscription from INRIX (a transportation data analytics company) to support performance measures, congestion management and traveler information efforts throughout the state. Specifically, as VDOT plans to disseminate travel time information statewide, this service will provide raw data and input to the travel time engine on key roadways for this program, and serve as a validation source to assess the quality of travel times obtained from VDOT sensors. This will be a five-year MOU.
Procurement Name:	Maintenance Service of Electronic Toll Collections
Procurement Date	3/15/2021

Procurement Description:	Maintenance and support of the existing hardware and software systems at Coleman Bridge.
Procurement Name:	Microsoft Dynamics 365 Cloud License - Procurement
Procurement Date	6/28/2024
Procurement Description:	VDOT currently uses Microsoft Dynamics OnPrem and is converting to cloud based in order to support EO-19. VDOT's current enterprise agreement for OnPrem licenses expires on 2-28-2022. Cloud licenses will provide both OnPrem and cloud entitlements.
Procurement Name:	Microsoft Enterprise Agrmnt Renewal FY23-24 Proc
Procurement Date	6/28/2024
Procurement Description:	VDOT has reached the end of its three year Enterprise Agreement with Microsoft. In order to stay compliant with licensing and avoid interruption of critical infrastructure and application software, we are required to renew our Microsoft Enterprise Agreement.
Procurement Name:	Oracle Licenses and Support FY23 Procurement
Procurement Date	6/21/2024
Procurement Description:	This procurement is being submitted to purchase Oracle licenses, upgraded licenses, new support, and migrated support/backsupport under the terms and conditions of the VITA Contract.
Procurement Name:	Plan Grid Software Procurement

Procurement Date	4/10/2020
Procurement Description:	PlanGrid is a cloud-based construction productivity software that allows CEI staff to view digital versions of plans and contract documents, take pictures, and mark-up plans using a mobile device while on the project site. Photos taken on the job site and scalable plan sheets can be easily marked up by construction teams and quickly emailed to decision makers to enable real time collaboration and expedite the resolution of issues. These functions are also useful for maintaining a running punchlist that automatically notifies the contractor of deficiencies that need to be corrected. The Virginia Transportation Research Council is currently conducting a pilot program to quantify the benefits of using iPads and PlanGrid on VDOT construction projects. A wide array of project types, field accessories, and project personnel were included in the pilot program to determine whether tablet based inspection was appropriate for VDOT Construction teams. Using FHWA's Every Day Counts ROI analysis tools, VDOT was able to estimate a Return on Investment (ROI) in excess of 500%. We confirm that this procurement is in accord with the Chief of Staff April 2 memorandum, which outlined a number of measures to reduce or eliminate agency spending due to the COVID-19 crisis. We have also attained all internal and external budget approvals necessary to complete this transaction
Procurement Name:	Plan Grid Software Renewal FY23 - FY24 Procurement
Procurement Date	6/28/2024
Procurement Description:	Tablet based inspection is the deployment of mobile devices such as iPads to provide construction inspectors with technology that will allow them to inspect highway construction projects more effectively and efficiently. This procurement is for PlanGrid software, which will be used on previously purchased, cellular enabled ipads.
Procurement Name:	RITIS, VPP Suite and XD Archive Service FY 23 Proc
Procurement Date	1/31/2023

Procurement Description:	VDOT will issue an MOU to the University of Maryland (UMD) using the I-95 Corridor Coalition contract to obtain access to the Regional Integrated Transportation Information System (RITIS) and its Vehicle Probe Project (VPP) Suite data application. UMD will also archive XD data for VDOT through the contract.
	RITIS and VPP suite provide performance measures tools used to analyze and present Archived Operations Data. VDOT will have access to the UMD Center for Advanced Transportation Technology (CATT) Lab data to perform/develop analytics to support several VDOT operational programs. Inrix, through its network of GPS-enabled vehicle probes, is able to provide real-time XD-Data, decision-quality speed and congestion information in the area. Data is being provided for 1566 centerline miles of freeways and 5,827 centerline miles statewide. This will be a one-year MOU.

Procurement Name:	SingleStone for MS Dynamics CRM Platform Procureme
Procurement Date	12/10/2018
Procurement Description:	This procurement is for services to maintain the suite of applications built on the Microsoft Dynamics Customer Relationship Management (CRM) platform. The application suite was built by the vendor who is the named source for this contract.

Procurement Name:	Software Support for TransCore Toll System Procure
Procurement Date	4/18/2019
Procurement Description:	The toll collection system currently in use at the Powhite Parkway Extension facility is a proprietary toll system software product that is highly integrated with coin machines, violation enforcement, reporting / audit systems and many other lane sensors and devices necessary to efficiently collect toll payments. This tolling solution is functioning at a very high level and is fully meeting the needs of VDOT and is far from end-of-life

Procurement Name:	Statewide Advanced Traffic Management System Proc

Procurement Date	6/28/2024
Procurement Description:	The contractor shall provide VDOT a Statewide ATMS that is a fully web-enabled application that performs in all standard browsers on both desktop and mobile devices. The contractor shall develop the Statewide ATMS through enhancing, integrating, updating or otherwise amending the latest version of the OpenTMS commercial off the shelf software to provide the goods and services necessary to: a. Replace the Legacy ATMS systems currently operating at each of the five (5) Regional Transportation Operation Centers (TOCs). b. Provide functionality which will allow VDOT to sunset their VaTraffic and Lane Closure Advisory Management System (LCAMS) applications; c. Integrate or interface the Statewide ATMS with or applications and/or data sources as specified by VDOT; d. Provide Operations and Maintenance (O&M) goods and services for the Statewide ATMS and other applications as specified by VDOT.
Procurement Name:	StreetLight InSight Travel Metrics Renewal FY21-24
Procurement Date	10/1/2020
Procurement Description:	The StreetLight InSight Travel Metrics service employs proprietary technologies not found in other products which enable users to access the power of Big Data for transportation planning, operations, and management. This includes Metrics that possess: · Extreme spatial precision (approximately 5 meters). · High frequency sampling rate. · Ability to separate commercial and personal trips. · Ability to analyze different time periods – i.e. different months in history, different days of the week, and different times of day
Procurement Name:	Technology Infrastructure Management Services for
Procurement Date	6/30/2027

Procurement Description:	VDOT intends to issue a new nine year contract starting July 1, 2019 for a new transportation operation application. This application will reside at the Northern Virginia Transportation Operations Center (TOC), with a hot redundant replicated environment at its Salem TOC. Due to public safety implications, these systems must operate with no downtime, 24/7/365. TOCs are secure facilities that have available floor space, backup power capabilities and physically redundant paths to VDOT's fiber optic backbone. The VDOT objective is to reduce long-term costs by establishing a standard suite of applications and tools across all TOC locations. The contract will provide and securely manage the underlying technology environment to host a suite of existing and planned mission-critical, specialized software applications and tools that communicate with roadside assets and industrial control systems to: • Manage and control freeway (interstate) traffic for both day-to-day and emergency operations (e.g. snow removal, hurricane evacuation, etc.) through dynamic message signs, traffic cameras, weather sensors, lane controls, ramp meters, reversible roadways and other field device systems • Manage and control arterial (primary and secondary) traffic through signal system operations • Collect and disseminate real-time roadway condition information to public-safety agencies and the traveling public for incident and roadway management including major weather events and other emergencies • Manage tolling operations on I-66 (Inside the I-495 Beltway) and I-64 • Provide fire and life safety services at critical infrastructure transportation facilities This contract must provide highly reliable and secure Wide Area Network (WAN) services to interconnect VDOT's operational facilities not currently interconnected through VDOT's fiber backbone network. This interconnected environment will provide each facility a direct path to the primary and secondary hosted environments, with failover capability through other redundant routes. The service must be available to meet spikes in demand beyond standard operations. The technology environment will initially support the Statewide Advanced Traffic Management System (ATMS), Intelligent Transportation System (ITS) Maintenance Management System and several utilities used by the Project Management Office. The environment must be scalable to include future mission critical functions and supporting systems.
Procurement Name:	VDOT IT Contingent Labor FY 23 Procurement
Procurement Date	6/30/2023

Procurement Description:	This procurement is to obtain the services of highly knowledgeable and skilled technology consultants to supplement current technology staff efforts. Contractors work on projects, operations and maintenance activities where additional personnel services are required, provide technical expertise that cannot be hired through the state personnel system due to lack of new FTE positions, and provide supplemental staff coverage for FTE's. In many cases they also provide transportation expertise that is not otherwise available.
Procurement Name:	VDOT Managed Print Services (CO&Dist) Proc
Procurement Date	6/28/2024
Procurement Description:	This procurement is the fourth of multiple procurements for Managed Print Services under the VITA contract VA-13045-XERX. The fourth phase involves replacing current Multifunctional Devices (MFDs) at the Central Office and purchasing 14 MFDs & card readers for Salem, Culpeper and Northern VA. This phase involves a total of 131 MFDs and is expected to save VDOT nearly 641,961.60. The anticipated impression charges are being estimated at $250,000 based on previous usage. This estimated cost will be rolled into the 60 month term of the procurement.
Procurement Name:	VDOT Managed Print Services (Hampton Residencies &
Procurement Date	11/26/2018
Procurement Description:	This procurement is the tenth of multiple procurements for Managed Print Services under the VITA contract VA-130405-XERX. This phase involves the purchase and installation of 61 Multi Functional Devices in the Hampton Residencies and Area Headquarters. This is a new installation and will cost $675,073.20. *Please note that monthly impression charges fluctuate month to month based on monthly print volume and the ratio of B&W to Color print volume per device.
Procurement Name:	VDOT Managed Print Services (Hampton Roads) Procur

Procurement Date	6/22/2018
Procurement Description:	This procurement is the sixth of multiple procurements for Managed Print Services under the VITA contract VA-13045-XERX. This phase involves the purchase and installation of 33 Multi Functional Devices in the Hampton Roads District. This is a new installation and will cost $253,517.40. *Please note that monthly impression charges fluctuate month to month based on monthly print volume and the ratio of B&W to Color print volume per device. The anticipated impression charges are being estimated at $164,876.30 based on previous usage.
Procurement Name:	VDOT Managed Print Services (Lynchburg) Procuremen
Procurement Date	8/1/2018
Procurement Description:	This procurement is the seventh of multiple procurements for Managed Print Services under the VITA contract VA-130405-XERX. This phase involves the purchase and installation of 66 Multifunctional Devices (MFDs) & Card Readers in the Lynchburg District. *Please note that monthly impression charges fluctuate month to month based on monthly print volume and the ratio of B&W to Color print volume per device.
Procurement Name:	VDOT Managed Print Services (Richmond District) Pr
Procurement Date	11/26/2018
Procurement Description:	This procurement is the eleventh multiple procurements for Managed Print Services under the VITA contract VA-130405-XERX. This phase involves the purchase and installation of 77 Multi Functional Devices in the Richmond District. This is a new installation and will cost $993495. There are 2 purchase orders attached showing the cost of the original 49 devices for $648,547.80 + the additional 28 devices for $344,947.20. *Please note that monthly impression charges fluctuate month to month based on monthly print volume and the ratio of B&W to Color print volume per device.

Procurement Name:	VDOT Managed Print Services (Salem) Procurement
Procurement Date	11/26/2018
Procurement Description:	This procurement is the twelfth of multiple procurements for Managed Print Services under the VITA contract VA-130405-XERX. This phase involves the purchase and installation of 90 Multi Functional Devices in the Salem District. This is a new installation and will cost $840,311.40 *Please note that monthly impression charges fluctuate month to month based on monthly print volume and the ratio of B&W to Color print volume per device.

Procurement Name:	VDOT Managed Print Services (Staunton) Procurement
Procurement Date	6/1/2018
Procurement Description:	This procurement is the fifth of multiple procurements for Managed Print Services under the VITA contract VA-13045-XERX. This phase involves replacing 69 Multifunctional Devices (MFDs) & Card Readers and the purchase of 550 Cirrato licenses at the Area Headquarters and Residencies of Staunton. The 69 devices from Xerox will cost VDOT $9,898.20 for a monthly savings of $8,015.09 and a total estimated five year savings of $480,905.40. *Please note that monthly impression charges fluctuate month to month based on monthly print volume and the ratio of B&W to Color print volume per device.

Procurement Name:	VDOT Managed Print Services Renewal FY 23 Proc
Procurement Date	11/30/2022
Procurement Description:	VDOT needs to refresh the contract for current Xerox devices, through VITA contract VA-191121-XERX.They are copy devices with multi functions that support scan to mail, scan to fax and scan to folder.The Managed Print Services uses comprehensive security, analytics, digitization and cloud technologies and software to deliver a more seamless work experience across paper and digital platforms. VDOT gets workplace assessments, device management, and print management.

Procurement Name:	VDOT Tableau licensing Renewal Proc
Procurement Date	6/28/2024
Procurement Description:	Annual renewal of Tableau licenses, maintenance, & support. This includes desktop user software licensing, Tableau Report Server licensing for the agency, and a Premium Support agreement so that we can better align our infrastructure to needs and troubleshoot more quickly and effectively when problems arise.

Procurement Name:	Waypath Customer Relationship Mgmt Support Proc
Procurement Date	7/22/2022

Procurement Description:	VDOT does not have internal expertise on CRM or the applications developed by Waypath. VDOT requires a vendor to keep applications on CRM operational and in good health, and be responsive to application issues as needed.
	
	Renew Operations and Maintenance Support
	- Maintenance Releases - 4 per year
	- Emergency hotfixes
	 - Ad hoc Support Activities
	- First level application support provided by Authorized User
	- Infrastructure support provided by Authorized User
	- Advanced application software support is provided by Waypath. Issues are escalated to Supplier if they cannot be resolved by Authorized User at first level. This includes support for:
	  - Customer Relationship Mgmt (CRM) basic functions
	  - CRM configurations
	  - Custom application features
	  - Integrations

Procurement Name:	Wide Format Plotter Lease Renewal Procurement

Procurement Date	6/28/2024
Procurement Description:	VDOT has a need to renew its lease of wide format plotters in support on-going highway maintenance and construction programs.