

Report Title: IT Strategic Plan Summary

Agency: 501 Department of Transportation

Current Operational IT Investments

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

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

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

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

MISSION STATEMENT

We help the people that keep VA moving by enabling them with information technology solutions that serve as a force multiplier for their work. Because of our contributions, VDOT people are able to work better.

VISION STATEMENT

To become the premier IT organization within the Commonwealth of VA that is recognized on a national level for our ability to deliver exemplary results. Our people will become among the most highly sought after staff to lead IT in other agencies and organizations; however they won't want to leave.

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. VDOT's immediate goal is to deliver more IT value. 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:

- * 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 the best and fastest technical solutions for employees and citizens through multiple channels

- * Providing seamless, one-stop-shops for general agency users that aggregate access to multiple systems and data sources
- * Exploiting 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 accountability mandates.

Factors Impacting the Current IT

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

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

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

Factors Impacting IT

- 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 CIO works with agency leaders to balance priorities with available funding, resources and the organizations 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 Divisions 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.
- Impact of VITA/NG Infrastructure Services.

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.

IT INFRASTRUCTURE TRANSITION

SHARED SECURITY SERVICES

CLOUD APPLICATION HOSTING

INTERNET UTILIZATION

Proposed IT Solutions

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

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

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

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

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

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:

- Highway Maintenance Management Solution – COTS-based solution to replace the VDOT Asset Management System (AMS) to improve the planning, implementation and evaluation of the statewide Maintenance Program.
- Smart Scale Smart Portal - The scope of this project is to deliver new functionality to allow for application re-submission, new applications submission to multiple grant programs, enhancements to the validation/screening/scoring processes and to improve the user interface to update decisions online.
- Bentley ProjectWise - VDOT requires a solution to extend design integration and project collaboration capabilities to a geographically dispersed collective of VDOT employees and consultants participating in all phases of capital projects. The current legacy system; Falcon, does not provide the capability to provide the automation needed to improve the plan production process. The use of Bentley's ProjectWise system on premises will allow VDOT to replace the legacy Falcon system and automate the plan production process.
- CEDAR Upgrade - The CEDAR (Comprehensive Environmental Data and Reporting) Upgrade is needed due to technology obsolescence, technology consolidation and functionality enhancements. Initially; a complete rewrite was considered necessary; but further analysis determined a technology upgrade would be feasible.
- Tort Claims Project - The project will retire the current Access database and incorporate functionality into a stable, comprehensive tort claims management system using the COTS MS Dynamics CRM Case Management module that integrates with the Customer Service Center (CSC) 2.0 system and Microsoft SharePoint; and develop improved VDOT business processes to enable citizens to submit claims and obtain status updates via enhanced functionality on myVDOT customer self-service website. The improved process will still allow for paper submissions, but claim files will be processed and maintained electronically. Provide enhanced ability to track and report on all claims received by VDOT and assess agency / contractor performance for claims processing. Create visibility for all VDOT and contractor tort claims throughout entire process. Citizens will have ability to obtain status updates via CSC 2.0 or myVDOT website for claims filed against contractors. The new system will be built as an extension of the existing CSC 2.0 system built on the Microsoft Dynamics CRM platform. It will also include a custom enhancement to the existing citizen myVDOT self-service portal. The new tort claims features will be integrated with Microsoft SharePoint for document storage, including a secure SharePoint site for

storage of documents containing citizen personally identifiable information (PII).

- e-Invoicing - VDOT seeks 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. The agency currently uses manual, paper-intensive processes to manage and approve invoices into Cardinal for payment. Substantial productivity savings are expected across the agency with an anticipated ROI of 228%. Characteristics of the solution include: standard implementation /configuration and scalability.

Managed Print Services - VDOT is entering into a Managed Print Services (MPS) 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.

End User Computing - VDOT has several thousand desktop and laptop computers that will need to be migrated.

Report Title: Strategic Plan

Agency: Department of Transportation

Current IT Services

Category	Costs Year 1		Costs Year 2	
	GF	NGF	GF	NGF
Projected Service Fees	\$0	\$60,167,456	\$0	\$61,972,480
VITA Infrastructure Changes	\$0	\$0	\$0	\$0
Estimated VITA Infrastructure	\$0	\$60,167,456	\$0	\$61,972,480
Specialized Infrastructure	\$0	\$0	\$0	\$0
Agency IT Staff	\$0	\$11,651,556	\$0	\$11,971,974
Non-agency IT Staff	\$0	\$19,485,785	\$0	\$19,485,475
Cloud Computing Service	\$0	\$0	\$0	\$0
Other Application Costs	\$0	\$7,761,788	\$0	\$9,104,304
Total	\$0	\$99,066,585	\$0	\$102,534,233

Proposed IT Investments

Category	Costs Year 1		Costs Year 2	
	GF	NGF	GF	NGF
Major IT Projects	\$0	\$3,543,679	\$0	\$1,326,000
Non-Major IT Projects	\$0	\$0	\$0	\$0
Agency-Level IT Projects	\$0	\$3,420,778	\$0	\$24,000
Major Stand Alone IT Procurements	\$1,000,000	\$37,960,660	\$1,000,000	\$7,884,982
Non-Major Stand Alone IT Procurements	\$0	\$3,315,667	\$0	\$1,515,979
Agency-Level Stand Alone IT Procurements	\$0	\$0	\$0	\$0
Procurement Adjustment for Staffing	\$0	\$0	\$0	\$0
Total	\$1,000,000	\$48,240,785	\$1,000,000	\$10,750,961

Projected Total IT Budget

Category	Costs Year 1		Costs Year 2		Total Costs
	GF	NGF	GF	NGF	
Current IT Services	\$0	\$99,066,585	\$0	\$102,534,233	\$201,600,818
Proposed IT Investments	\$1,000,000	\$48,240,785	\$1,000,000	\$10,750,961	\$60,991,747
Total	\$1,000,000	\$147,307,370	\$1,000,000	\$113,285,194	\$262,592,565

Report Title: Business Requirements For Technology

Agency: Department of Transportation (VDOT)

BReT AASHTOWare Bridge Management Upgrade**BRT Type:** Business Requirement for Existing Technology**Date Submitted:** 8/19/2016**Mandate:** No**Mission Critical:****Description:**

The current version of this application is no longer supported; the version upgrade will support FHWA reporting requirements.

BReT AASHTOWare Construction Module**BRT Type:** Business Requirement for Existing Technology**Date Submitted:** 9/16/2016**Mandate:** No**Mission Critical:****Description:**

The AASHTOWare Construction Module replaces our existing Site Manager module. This request requires significant business change, and technological change. While the effort has not been fully scoped (as the software is not expected to be commercially viable for VDOT until mid- to late-2017, the effort is expected to require significant resources.

BReT AASHTOWare License Renewal**BRT Type:** Business Requirement for Existing Technology**Date Submitted:** 5/11/2017**Mandate:** No**Mission Critical:****Description:**

FY18 renewal including additional service units for AASHTOWare Bridge & AASHTOWare Project.

BReT AASHTOWare Project Materials**BRT Type:** Business Requirement for Existing Technology**Date Submitted:** 9/1/2017**Mandate:** No**Mission Critical:**

Description:

Materials Division wishes to implement the Materials portion of the AASHTOWare Project Construction and Materials Module. The Materials portion of the module will provide laboratory information management functionality and will integrate the material acceptance processes in the Material Division, Materials Sections in the districts, and lab administration, to provide sampling and testing workflow management to support construction and maintenance projects. Some decisions, for the materials portion of this module, need to be determined to support the implementation of the Construction portion of the module. These decisions will aid Construction division in decisions necessary for the switch from AASHTOWARE Site Manager.

AASHTOWare Project is web based software that will allow more flexibility and access to numerous users. The Preconstruction Module and Civil Rights and Labor Module, of AASHTOWare Project are currently in production at VDOT.

BRet Agile Assets for Pavement Management

BRT Type:	Business Requirement for Existing Technology
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Date Submitted:	3/9/2017
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Mandate:	No
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Mission Critical:	
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Description:

This request is for the development of a contract that provides for 3 successive one-year maintenance periods, 2 additional optional one-year maintenance periods, and an IDIQ (indefinite delivery/indefinite quantity) for additional software and professional services as are required by VDOT and ordered via Task Order.

BRet ArcGIS Platform Upgrade Phase 2 and RNS Upgrade

BRT Type:	Business Requirement for Existing Technology
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Date Submitted:	8/26/2016
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Mandate:	No
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Mission Critical:	
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Description:

VDOT currently supports multiple production ArcGIS server instances, at multiple versions, across the agency. VDOT's GeoSpatial platforms are either out of vendor support or in extended support. These platforms cannot be upgraded in their current state. This is blocking the upgrade of all other spatial software platforms.

BRet ArcGIS Software Upgrade

BRT Type:	Business Requirement for Existing Technology
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Date Submitted:	7/27/2016
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Mandate:	No
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Mission Critical:	
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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 Authentication/Directory Services

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	8/31/2016
Mandate:	
Mission Critical:	

Description:
 VDOT has 220 applications which will need to be migrated and tested during the authentication/directory services transition. There are 7559 internal and 780 external users.

BReT Bentley ProjectWise

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	8/19/2016
Mandate:	No
Mission Critical:	No

Description:
 VDOT requires a solution to extend design integration and project collaboration capabilities to a geographically dispersed collective of VDOT employees and consultants participating in all phases of capital projects. The current legacy system; Falcon, does not provide the capability to provide the automation needed to improve the plan production process. The use of Bentley's ProjectWise system on premises will allow VDOT to replace the legacy Falcon system and automate the plan production process.

BReT CEDAR 2016 Upgrade

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/13/2017
Mandate:	Yes
Mission Critical:	No

Description:
 Provide major enhancements to CEDAR.
 Fulfill Commissioner's response to EPA audit findings (MS4 – TMDL and Facilities Compliance).
 Improve compliance with state and federal regulatory requirements.
 Create improved confidence with regulatory agencies for reporting and program execution.
 Implement integrated, enterprise solution to eliminate reliance on inefficient and obsolete stand-alone tools.
 Modernize data collection processes using mobile devices to improve overall efficiency and accuracy of

the program.

Consolidate and create collaborative storage locations to eliminate email distribution dependency and create consistent document management and reporting capability.

Estimated implementation is 24 months, with incremental delivery. Cost payment can be spread across two or three Fiscal Years.

Supplemental FY17 business funding of \$400,000+ currently available, potential carryover to FY18.

BReT CEDAR Upgrade

BRT Type: Business Requirement for Existing Technology

Date Submitted: 7/28/2017

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 Cisco Network Equipment

BRT Type: Business Requirement for Existing Technology

Date Submitted: 4/19/2017

Mandate: No

Mission Critical:

Description:

Life cycle replacement of routers, switches and firewalls that are reaching end of manufacturer support (originally purchased in 2007), including enhancement of hardware redundancy and network security.

BReT Cloud Computing

BRT Type: Business Requirement for Existing Technology

Date Submitted: 9/9/2016

Mandate: No

Mission Critical:

Description:

VDOT is investigating moving up to 50 applications to various Cloud services vendors. The business reason for the move is to reduce cost, increase operational efficiency and reliability, increase application sustainability, and deliver greater citizen value. Applications are not cloud ready and will require some development effort to prepare them for operation in the Cloud. VDOT will not need to bring in outside consulting to assess what needs to be done to the applications and supporting infrastructure in order to become cloud ready.

BReT Crown Peak Subscription Renewal Procurement	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	8/18/2016
Mandate:	No
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 Data Networks	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	8/31/2016
Mandate:	
Mission Critical:	
Description:	
VDOT has no networks that are not MPLS which will need to be migrated.	
BReT DataStage DEB Migration	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	8/3/2017
Mandate:	No
Mission Critical:	Yes
Description:	
Currently ITD is supporting two production environments running different versions of the DataStage software: 8.1 and 11.5. The DataStage 8.1 environment is both unlicensed and no longer supported by the vendor; ITD has a regulatory requirement to comply with licensing agreements on all infrastructure. This project will move all remaining Data Exchange Broker interfaces and batch jobs to the DataStage 11.5 production server, which is already licensed and under vendor support. ITD uses DataStage to facilitate interfaces between VDOT applications via the Data Exchange Broker (DEB). This process includes all interfaces between Cardinal (Department of Accounts) as well as data exchanges among internal systems and systems maintained by other agencies. This operational effort will address end-of-life software compliance by migrating these batch jobs to another production server and will provide ITD developers with additional tool functionality offered in the more recent version of DataStage. The migration will be transparent to users. In addition, the project will decommission the DataStage 8.1 servers once all interfaces have successfully migrated to the DataStage 11.5 servers.	
BReT EBB Content Player Subscription Renewal	
BRT Type:	Business Requirement for Existing Technology

Date Submitted:	2/10/2017
Mandate:	No
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 Procurement	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	4/17/2018
Mandate:	No
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 End of Life 2008 Server	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	8/30/2017
Mandate:	
Mission Critical:	
Description:	
Agency will create a mitigation plan to address end of life 2008 servers.	
BReT End User Computing	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	8/31/2016
Mandate:	
Mission Critical:	
Description:	
VDOT has 2556 desktops and 4655 laptops and 0 network printers which will need to be migrated following VITA's disentanglement from NG.	

BReT HTRS Shutdown	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	7/30/2014
Mandate:	No
Mission Critical:	No
Description:	
The Highway and Traffic Records Information System (HTRIS) has been replaced and geo-enabled by the Roadway Network System (RNS) Program. The remaining legacy HTRIS subsystems are now available for historical reference only. This business requirement is to sunset the HTRIS mainframe system.	
BReT IBM Mainframe	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	8/31/2016
Mandate:	No
Mission Critical:	
Description:	
VITA is initiating disentanglement from NG IBM Mainframe services in 2016. VDOT has 4 applications on the IBM which will need to be migrated and tested during this transition.	
BReT Internet Usage	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	9/2/2016
Mandate:	
Mission Critical:	
Description:	
VDOT projects that internet usage will increase by 10% each year due to a greater amount of field data usage and a higher level of digital collaboration. Some examples of why internet usage might increase are as follows: an increase use of video streaming, an increase in user and transportation device access to the internet (transportation sensors), an increase of field mobile devices that include digital media (pictures and video), an increase of collaborative technologies such as WebEx, and a continuing transition to VOIP.	
BReT ITD Project Server Upgrade	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	6/20/2016
Mandate:	No
Mission Critical:	Yes

Description:

The business requirement is to upgrade MS Project Server 2010 to 2016 to take advantage of features needed to support the Agile Methodology @VDOT initiative, address current performance issues, and bring the technology current (support for current version to run out, soon).

To ensure successful performance of MS Project Server, to include availability, additional physical and virtual servers are being requested, as well

BReT Maintenance and Support of Advanced Revenue Collection System at Coleman Toll Facility

BRT Type:	Business Requirement for Existing Technology
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Date Submitted:	1/24/2018
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Mandate:	No
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Mission Critical:	No
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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 Managed Security

BRT Type:	Business Requirement for Existing Technology
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Date Submitted:	8/31/2016
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Mandate:	
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Mission Critical:	Yes
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Description:

VDOT's IT environment will need to be up to date in order to smoothly transition to the new service providers. Applications and other agency dependencies need to be addressed.

Key managed security activities currently provided by VITA to VDOT include the following:

- Patch Management
- Anti-Virus
- Web Gateway
- Manage Active Directory Configuration
- Manage Active Directory Users (Add/Delete/Modify at our direction)
- Support Active Directory Interface with our System Access Request System (SARA)
- Network Security (firewall management, etc.)
- Server Security
- User Authentication - Local Network and Remote Access (CISCO AnyConnect VPN)
- Intrusion Detection
- Incident Management

These managed security services would need to be provided by the Northrup Grumman replacement or provided in some other fashion agreeable to all parties. Testing will need to be performed as part of the transition to the new service provider once a service provider has been selected and a transition plan developed. This will need to include detailed service level agreements and written procedures.

BReT Messaging	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	8/31/2016
Mandate:	No
Mission Critical:	
Description:	
<p>VITA is initiating disentanglement from NG messaging services in 2016. Messaging Services for email (7,535 users), enterprise collaboration services (0 users), and mobile device management are required for 2,750 users in our agency. We also have approximately 100 applications with hooks into messaging services which will need to be tested. VDOT does not use WCS SharePoint. We have 6 applications serviced via AirWatch which will need remediation. They are Sara, Cardinal, SWAS, CQIP, InsideVDOT and AMS.</p>	
BReT Microsoft Enterprise Agreement	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	2/2/2018
Mandate:	No
Mission Critical:	
Description:	
<p>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.</p>	
BReT Oracle License True-Up	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	7/2/2018
Mandate:	
Mission Critical:	
Description:	
<p>VDOT supports over 170 applications to service the Commonwealth. There are about 70+ applications that are supported by an Oracle backend database. These databases are at version 11.1.0 thru 12.2.0. There has been a Unlimited License Agreement(ULA) negotiated with Oracle Corporation. This allows for VDOT to continue to function/support/manage the underlying databases supporting the Commonwealth.</p>	
BReT Oracle Licenses and Support FY18	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	8/17/2017
Mandate:	No

Mission Critical:	
Description:	
This BRT is being submitted to purchase additional Oracle licenses, upgraded licenses, new support, and migrated support/backsupport under the terms and conditions of the Mythics VITA Contract VA-170130-MYTH.	
BReT PCES Upgrade to Web-Based Application	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	9/16/2017
Mandate:	No
Mission Critical:	No
Description:	
The Bridge portion of PCES system has been upgraded to a web-based application. This request is to fully upgrade remaining modules of PCES to a fully integrated web-based application.	
BReT Platform and Wide Area Network Infrastructure Operations and Maintenance	
BRT Type:	Business Requirement for New Technology
Date Submitted:	9/20/2017
Mandate:	No
Mission Critical:	No
Description:	
The Platform and Wide Area Network Infrastructure Operations and Maintenance is required to operate the Virginia Department of Transportation's mission-critical Statewide Advanced Traffic Management System ("Statewide ATMS"), Intelligent Maintenance Management System ("IMMS"), Project Management Office ("PMO") tools, and other mission-critical systems.	
BReT Quest TOAD Desktop Development Software	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	10/26/2017
Mandate:	Yes
Mission Critical:	
Description:	
VDOT uses Quest TOAD desktop software in the course of database development. We have been using this software for years for this purpose. During our renewal this year, we found that we had more licenses installed than we owned and are submitting this request in an effort to bring our environment into compliance with Quest licensing agreements.	

BRet Right of Way and Utility Management System Update

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	9/18/2017
Mandate:	No
Mission Critical:	No

Description:

The Right of Utilities Way Management (RUMS) application. Enhancements are needed in the Consult Contracting screens and the Utilities screens to align the application with the current business practices. Business practices adopted by Right of Way changed many years ago; however, RUMS was not updated to reflect the changes. As a result, business staff created manual workarounds and spend several manhours annually amount of time outside of RUMS to complete tasks the system was originally intended to achieve. Several fields and/or screens within RUMS do not accurately reflect the information captured by business. These inconsistencies create a training challenge, as staff knowledge is the most reliable training material for proper system use. In addition, there is not a means to effectively manage utility relocation and contracts within RUMS. Overall, the system lacks comprehensive reporting and audit functionality needed by the division to succinctly complete all tasks within the system, as designed. There are manual processes and spreadsheets currently used to assist in tracking assignments and workloads. Right of Way has requested updates to ensure new and existing staff can efficiently and accurately complete core job responsibilities.

BRet Roadway Inventory System Urban Extension Project

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	3/30/2017
Mandate:	Yes
Mission Critical:	No

Description:

Recreate existing UMIS functionality in RIMS
 Refresh and merge the LAD data from all sources in RNS
 Geo-reference the data
 Add additional fields required by LAD
 Create the UMIS reports in RIMS.
 Retire UMIS

BRet Server and Storage Planning

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	8/31/2016
Mandate:	
Mission Critical:	

Description:

VITA is initiating disentanglement from NG servers and storage. VDOT has 500 servers which will need to be migrated and tested during this transition. 220 will be affected by this move and will need to be tested.

BReT SharePoint 2016 Platform

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	8/26/2016
Mandate:	No
Mission Critical:	

Description:
SharePoint 2010 is the current technology used for team sites and document repositories. The project will upgrade to SharePoint 2016 to support business initiatives.

BReT Sharepoint Technology Upgrade IVD OVD

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	8/26/2016
Mandate:	No
Mission Critical:	

Description:
Upgrading to the most current version of SharePoint will enable users to leverage its new functionality and will improve the InsideVDOT user experience. This upgrade will provide opportunities to simplify and automate business processes using technology solutions; and will standardize access to information enabling a continued focus on business process simplification with automation. This will allow for a more robust reporting business intelligence data warehouse, enabling dashboarding and data drill down.

BReT Skillsoft Online Courseware and Library License Renewal

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	11/2/2017
Mandate:	No
Mission Critical:	No

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

BRt SmartScale

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	1/27/2017
Mandate:	No
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.

BRt Statewide Traffic Signal System

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	9/13/2017
Mandate:	No
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.

BRt Technology Infrastructure Management Services for Transportation Operations

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	8/13/2018
Mandate:	No
Mission Critical:	Yes

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.

BReT Title VI Compliance

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	2/13/2017
Mandate:	
Mission Critical:	

Description:
 Discontinue the use of paper forms, wet signatures and email to manage and track Title VI compliance. Replace with a web based solution that allows Title VI forms and attachments to be submitted electronically and routed for approvals via workflow.

BReT Tort Claims

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	2/13/2017
Mandate:	Yes
Mission Critical:	No

Description:
 Leverage existing CSC software to manage tort claims; enable electronic submission through MyVDOT website; provide self-service dashboard for tracking status; create workflow and business rule automation to support existing Tort Claim business processes; allow for Tort Claim data capture from CSC to populate Case Management module.

BReT Upgrade IBM InfoSphere Data Stage

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	5/4/2016

Mandate:	No
Mission Critical:	Yes
Description:	
<p>The Data Stage / InfoSphere tool processes data from critical internal and public facing systems, to include Cardinal, ISYP, Virginia Roads, the VDOT Customer Service Center, and our Dashboard systems. Without this tool, many of our core systems will no longer be accurate. The current version is three major releases behind and no longer supported by the vendor.</p> <p>- Construction, Maintenance, Asset Management, and the Business Transformation Office all depend on this system at VDOT.</p>	
BReT VDOT IT Contingent Labor	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	7/28/2014
Mandate:	No
Mission Critical:	Yes
Description:	
<p>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 demand throughout Virginia.</p>	
BReT VDOT IT Contingent Labor_FY16-18	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	8/30/2016
Mandate:	No
Mission Critical:	Yes
Description:	
<p>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-</p>	

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: 9/22/2017

Mandate: No

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 Existing Technology Support

BRT Type: Business Requirement for Existing Technology

Date Submitted: 7/30/2014

Mandate: No

Mission Critical: Yes

Description:

This business requirement is to support the current portfolio of VDOT IT programs, applications, data assets and services. The support of current IT assets requires salaried employees, staff augmentation and deliverables based SOW work. IT services are also provided through a mix of in-house and outsourced resources. Examples of ongoing outsourced services include media teleconferencing services and 511 Virginia. In addition, ongoing costs for VITA/NG infrastructure services are incurred monthly to support the existing VDOT IT technology asset portfolio.

BReT VDOT IT Software Renewals

BRT Type: Business Requirement for Existing Technology

Date Submitted: 8/4/2014

Mandate: No

Mission Critical: Yes

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 such as Adobe products and Visio.

BReT VDOT IT Software Renewals FY16-18

BRT Type:	Business Requirement for Existing Technology
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Date Submitted:	9/14/2016
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Mandate:	No
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Mission Critical:	Yes
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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:

Business Objects Enterprise X1 for M5
 Citrix Remote Desktop Subscription Renewal
 DevOps Software
 ESRI License Agreement
 ESRI License Agreement - additional
 Four Winds EBB Digital Signage
 GIS Related Software
 iDashboard Software
 IronKey Maintenance Renewal
 LeanKit
 Logmein Pro License Renewal
 Logmein Remotely Anywhere License Renewal
 Metalogix Control Point Admin License Renewal
 Microsoft Visual Enterprise with MSDN
 MOAT Renewal (Security Awareness Training Software)
 MS Dynamics Licenses
 NESSUS Manager - Scanner License
 Oracle Support Renewal
 Pluralsight Subscription Renewal
 Pluralsight Subscription Renewal
 Quest Toad Software License Renewal
 ReSharper License Renewal
 SAS Server Software Renewal
 Survey Monkey License Renewal
 Symantec Endpoint Protection
 Triad - Mobile Framework License Renewal
 Veriato Investigative - Perpetual License
 Vshell Workgroup & FTPS License Renewal
 WebTrends Analytic 10 On Demand Software License Renewal
 WS FTP Professional

BReT VDOT IT Software Renewals FY18-20

BRT Type:	Business Requirement for Existing Technology
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Date Submitted:	9/25/2017
Mandate:	No
Mission Critical:	
Description:	
<p>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:</p> <ul style="list-style-type: none"> 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 IT Software/Technology Upgrades 14-16	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	8/15/2014
Mandate:	No
Mission Critical:	
Description:	
<p>This business requirement is to address VDOT technology obsolescence risks, to include Operational Risks and Issues identified by VITA related to software/technology that is no longer supported or will no longer be supported in the upcoming biennium. Titles include:</p> <ul style="list-style-type: none"> - MS Server 2000 ended on 7/13/2010 - MS Server 2003 operating system will end 7/14/2015 - MS SQL Server 2000 database ended 4/9/2013 - MS SQL Server 2005 database will end 4/12/2016 - Oracle Database 10.2 ended on 7/1/2013 - Oracle Database 9.2 ended on 7/1/2010 - Red Hat Linux 3 operating system ended 10/31/2010 - Red Hat Linux 4 operating system ended 2/29/2012 - Windows XP operating system ended 04/08/2014 	

BRet VDOT IT Software/Technology Upgrades 16-18

BRT Type:	Business Requirement for Existing Technology
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Date Submitted:	9/19/2016
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Mandate:	No
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Mission Critical:	
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Description:

This business requirement is to address VDOT technology obsolescence risks, to include Operational Risks and Issues identified by VITA related to software/technology that is no longer supported or will no longer be supported in the upcoming biennium. Titles include:

- MS Server 2000 ended on 7/13/2010 (have approved exception)
- MS Server 2003 operating system will end 7/14/2015 (have approved exception)
- MS SQL Server 2000 database ended 4/9/2013
- MS SQL Server 2005 database will end 4/12/2016
- Oracle Database 10.2 ended on 7/1/2013
- Oracle Database 9.2 ended on 7/1/2010
- Red Hat Linux 3 operating system ended 10/31/2010
- Red Hat Linux 4 operating system ended 2/29/2012
- Windows XP operating system ended 04/08/2014
- VDOT overall risk program 2015

BRet VDOT Production Center Upgrade

BRT Type:	Business Requirement for Existing Technology
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Date Submitted:	6/19/2017
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Mandate:	No
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Mission Critical:	No
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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 Voice Networks

BRT Type:	Business Requirement for Existing Technology
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Date Submitted:	8/31/2016
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Mandate:	
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Mission Critical:	
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Description:

VDOT has 2312 UCaaS phone lines and 335 other phone lines which will need to be migrated.

BReT Voyager Card M5

BRT Type: Business Requirement for Existing Technology

Date Submitted: 9/14/2017

Mandate: No

Mission Critical:

Description:

In order to access a Statewide fuel-card contracted vendor, an upgrade of the Voyager module is needed to provide a fuel card interface at non VDOT locations.

BReT Wide Format Plotter Lease

BRT Type: Business Requirement for Existing Technology

Date Submitted: 11/10/2016

Mandate: No

Mission Critical: No

Description:

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

BRnT Online Recruitment Tool

BRT Type: Business Requirement for New Technology

Date Submitted: 9/16/2017

Mandate: No

Mission Critical: No

Description:

The VDOT Talent Acquisition team would like to procure an online recruitment tool so the agency can better manage and track potential applicants. This online tool would allow VDOT to actively source candidates and allow for pre-registration at career fair events from the VDOT online home page. The desired solution would have the following attributes:
Resume storage Database
Social recruiting branding
Web Distribution method
Social recruiting analytics
Mobile capabilities

BRnT MPFPT Budget Program Enhancement

BRT Type:	Business Requirement for New Technology
Date Submitted:	1/26/2015
Mandate:	No
Mission Critical:	
Description:	
MPFPT (Maintenance Program Fund Planning Tool) Budget Program Enhancement -This business need is to replace the current stand-alone Budget Program System with an integrated Budget Management & Planning System. This project builds upon the integration and platform of the new Spend Plan System and provides a simple user friendly single point of entry process for all OPO users to enter and manage budget and planning activities.	
BRnT Accounts Payable Automation	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	9/19/2016
Mandate:	No
Mission Critical:	
Description:	
<p>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:</p> <ul style="list-style-type: none"> ·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). <p>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 an anticipated ROI of 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.</p>	
BRnT Advanced Transportation Controllers and Firmware	
BRT Type:	Business Requirement for New Technology

Date Submitted:	8/2/2017
Mandate:	No
Mission Critical:	Yes
Description:	
<p>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.</p> <p>The plan includes: Phase I – Concept of Operations - Complete Phase II – Procurement of ATC Hardware & Firmware - \$4.5M</p>	
BRnT Advanced Transportation Controllers, Firmware and Central Signal System	
BRT Type:	Business Requirement for New Technology
Date Submitted:	3/17/2017
Mandate:	No
Mission Critical:	Yes
Description:	
<p>VDOT seeks to procure traffic signal system controller hardware, firmware, and central signal system that are compatible and consistent throughout VDOT's Operations Regions for the purpose of enhancing cross-district interoperability, establishing efficiencies in maintenance, and expanding real-time monitoring and operations of the statewide signalized arterial roadway network by allowing VDOT to: Monitor the health and status of traffic signal systems, including equipment and communications failures. Monitor performance of the traffic signal system, during both peak & off-peak times. Adjust signal timings in real-time in response to incidents, work zones, and special events. Prepare for future advances in technology without the need to replace signal controller hardware.</p> <p>The plan includes: Phase I – Concept of Operations - Complete Phase II – Procurement of ATC Hardware & Firmware - \$4.5M Phase III – Procurement of Central Signal System - \$1.5 M</p>	
BRnT Automated Employee Data Verification Service	
BRT Type:	Business Requirement for New Technology
Date Submitted:	9/16/2017
Mandate:	No
Mission Critical:	No
Description:	
<p>A key function of the Human Resource & Training Division is to provide prompt and accurate employment and base pay verification information to qualified third parties (loan officers, rental property agents, potential employers, etc.). For the past several years, DHRM has provided this service for PMIS agencies but suspended operations in this area in the fall of 2013. As a result, the HR&T Division has reverted to a manual process to fill this service gap. The project scope is to identify either a commercially-available</p>	

service or to develop an in-house application to automate this required service.

BRnT Automated Fuel Management

BRT Type: Business Requirement for New Technology

Date Submitted: 9/15/2017

Mandate: No

Mission Critical: No

Description:

Replace the current Fuel View 4 Enterprise system version 4.5 and fuel island hardware which will position the agency with long-term, reliable and automated access to fuel. Most system hardware was installed in 2001, and will soon be out of vendor support. Once out of support, VDOT will be exposed to increased risk of system failure, requiring manual, labor intensive workarounds to manage the program. The system functions include but are not limited to: ordering fuel, receiving fuel, issuing fuel, authorizing customers, authorizing vehicles, managing inventory, managing sites, managing terminals, managing tanks, managing pumps, identifying customers, billing fuel products, communication with Veeder-Root, reporting, data transmittal with FleetFocus M5 and Cardinal internal applications, and Mansfield Oil, ManCon, and US Bank external applications.

BRnT CEDAR Enhancements

BRT Type: Business Requirement for Existing Technology

Date Submitted: 2/13/2017

Mandate:

Mission Critical:

Description:

description to follow

BRnT CEDAR Upgrade

BRT Type: Business Requirement for New Technology

Date Submitted: 3/9/2016

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 Contractor Application Access Portal

BRT Type:	Business Requirement for New Technology
Date Submitted:	8/24/2015
Mandate:	
Mission Critical:	

Description:
 The Agency is introducing several new systems that require Construction Contractor access such as the PDMS, CRLMS, MITS/PLAID – these new systems are in addition to existing applications that the Contractors now use (BidExpress, CABB, Falcon, eVA.....). Contractors need an application portal where they can log in once through a web interface and then access the systems they need once they have passed through the gateway (versus multiple/repetitive logins). Individual Agency business units are creating more and more applications for Contractors. The agency needs to consider the impacts to the Contracting community.

BRnT Dell SAN Procurement

BRT Type:	Business Requirement for New Technology
Date Submitted:	6/18/2018
Mandate:	No
Mission Critical:	Yes

Description:
 Tolling division requires a system able to support over 15 toll roads, and to keep up with 4000+ transactions a second. These require transactions speeds have firm hardware requirements. SFP+ 10Gb Network, Connected SAN with 50K+ IOPS, 100+ Tb usable space, <30 second volume clones.

BRnT Dell Server Procurement

BRT Type:	Business Requirement for New Technology
Date Submitted:	6/22/2018
Mandate:	No
Mission Critical:	Yes

Description:
 Tolling division requires a system able to support over 15 toll roads, and to keep up with 4000+ transactions a second. The tolling system requires new servers to support the business need. The servers must support 2 applications for both the EZPASS system and the violation system. The system must be

available 24/7/365.

BRnT Digitize Bridge Inspection Reports

BRT Type: Business Requirement for New Technology

Date Submitted: 9/15/2017

Mandate: No

Mission Critical:

Description:

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

BRnT E-Forms Automation

BRT Type: Business Requirement for New Technology

Date Submitted: 4/19/2018

Mandate:

Mission Critical:

Description:

Describe reason for the BRT.

BRnT Electronic Customer Payment and Application Intake

BRT Type: Business Requirement for New Technology

Date Submitted: 8/21/2014

Mandate: No

Mission Critical: No

Description:

This business requirement for technology is to develop electronic customer facing systems to expand electronic payment capability and electronic application intake. This is Objective 5.7.2 in the VDOT FY 2015 Business Plan and Objective 5.4.2 in the FY16 Business Plan. An example would be creating a web service to enable acceptance of online credit card payments for the issuance of land use permits.

BRnT Electronic Procurement for Professional Services

BRT Type: Business Requirement for New Technology

Date Submitted: 9/15/2017

Mandate: No

Mission Critical:

Description:

The Engineering Directorate needs a workflow for professional services to capture pre-award and post-award activities in one system. The Professional Services Consultant Reporting System (PSCRS) currently captures only post-award activities. This new workflow will enable capture of the entire process, including workflows, in one system; will reduce the amount of time approval processes take and reduce the amount of time needed to award contracts.

BRnT Employee Onboarding

BRT Type:	Business Requirement for New Technology
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Date Submitted:	9/16/2017
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Mandate:	No
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Mission Critical:	No
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Description:

Each year, VDOT on-boards approximately 1000 classified employees. Of that number approximately 50% are from outside of the agency with 50% transferring to new assignments within the agency. Onboarding occurs through manual processes and delivery of materials. The labor and paperwork associated with this staffing volume is significant. New and transferring employees currently fill out manual paper forms as part of this process, which can be a grueling employee experience.

The Human Resources (HR) team is interested in purchasing Onboarding software or services, which are readily available through commercial vendors to significantly reduce the labor associated with onboarding and to provide a better employee experience.

BRnT Employee Personal Information Verification

BRT Type:	Business Requirement for New Technology
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Date Submitted:	9/16/2017
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Mandate:	No
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Mission Critical:	No
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Description:

The personal information about employees changes frequently. It is difficult to keep up and ensure the information retained in about an employee is up-to-date and relevant. This information is kept in Personal Information Management System (PMIS), a VA Department of Human Resources Management (DHRM) owned system, and in VDOT's local copy of this system called Operational Data Store (ODS). VDOT is required to verify employee data on at least an annual basis to support numerous processes and comply with Executive Order 41 (2011) and the Emergency Operations Plan from VDEM and Executive Order 50 (2012) and other standards. We don't always have the data because employees information changes frequently— they move locations, get new phones, etc. It may be missing, incomplete or not up-to-date and there is not a standard process to verify or collect it after initial on-boarding.

BRnT Enterprise Identity and Access Management Solution

BRT Type:	Business Requirement for New Technology
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Date Submitted:	9/2/2014
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Mandate:	
Mission Critical:	
Description:	
This business requirement is to improve and streamline identity and access management to buildings, systems and applications at VDOT across the state. Identity and access management presents several risks and challenges, to include security, efficiency and reliability. Several types of technologies are available to manage user identity data across the enterprise. These systems focus on streamlining the identity management process and managing data consistently across multiple systems.	
BRnT Enterprise Mobile Management Solution	
BRT Type:	Business Requirement for New Technology
Date Submitted:	9/2/2014
Mandate:	
Mission Critical:	
Description:	
This BRT addresses the need for a standardized strategy for addressing the agency's need for mobile technologies in multiple lines of business across the state. A standardized strategy would provide a framework of technologies, processes and resources for all initiatives requiring mobile technology solutions at VDOT. Standards would address hardware, data exchanges, security, application development and deployment, and mobile use guidelines.	
BRnT Enterprise Wide Electronic Documents Archival	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	9/1/2017
Mandate:	No
Mission Critical:	No
Description:	
There is currently no process or system to dispose of electronic documents according to the retention schedule. An enterprise-wide solution is needed to archive and dispose of electronic documents according to records retention policies.	
BRnT Environmental Process Improvements	
BRT Type:	Business Requirement for New Technology
Date Submitted:	8/13/2014
Mandate:	No
Mission Critical:	No
Description:	
The continued expansion of electronic government will increase the efficiency of environmental processes and procedures in VDOT. The implementation of CEDAR and further enhancements and improvements to	

the GIS will provide greater efficiencies in the conduct of environmental reviews and transparency to the public regarding reporting compliance.

This business requirement for technology is to:

- Enhance existing CEDAR project status reporting
- Facilitate customer service opportunities that enhance relationships with internal and external stakeholders
- Update existing geographic information system (GIS) data and investigate opportunities to further use GIS for Division programs

BRnT Expand Interactive Public Web Resources

BRT Type: Business Requirement for New Technology

Date Submitted: 8/21/2014

Mandate: No

Mission Critical: No

Description:

This business requirement is to develop additional online interactive web resources to increase public engagement, participation and outreach. This is objective 5.8.1 of the agency's FY 15 Business Plan.

BRnT Fiscal Document Management System

BRT Type: Business Requirement for New Technology

Date Submitted: 9/6/2016

Mandate: No

Mission Critical: No

Description:

Fiscal's business requires document storage and retrieval capabilities, which are hindered by current processes and technologies. The project seeks to increase space and reduce labor by reducing paper created and stored, digitizing repositories and automating approval workflows.

BRnT ICM Data Store and Decision Support

BRT Type: Business Requirement for New Technology

Date Submitted: 3/5/2018

Mandate: No

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 Improve End User Technologies

BRT Type:	Business Requirement for New Technology
Date Submitted:	7/28/2015
Mandate:	No
Mission Critical:	

Description:
 VDOT Business Plan 2016
 Goal 5: Support
 5.4.3 Improve end user technologies to include incorporating mobile technologies, electronic signatures, electronic payments and electronic submissions.
 Related: BRnT Electronic Customer Payment and Application Intake
 BRnT Enterprise Mobile Management Solution
 BRnT VDOT Document and Process Management

BRnT Inventory Module (Cardinal)

BRT Type:	Business Requirement for New Technology
Date Submitted:	8/13/2014
Mandate:	
Mission Critical:	Yes

Description:
 This business need is to integrate the inventory function at VDOT with the Cardinal system. This implementation is required because the current application technology is reaching the end of its productive life, and the business process warrants it be incorporated within the financial system. Microsoft Corporation ended support for Active Server Pages software in 2008. It is no longer possible to make changes to certain sections of the application. The project will replace the WebIMS application with the PeopleSoft Inventory Module.

BRnT Learning Management System (LMS) Replacement

BRT Type:	Business Requirement for New Technology
Date Submitted:	4/17/2015
Mandate:	No
Mission Critical:	

Description:
 The Learning Center is seeking an upgrade to its Virtual Campus Learning Management System (LMS). The current product, introduced in May, 2005, is reaching the end of its viability from a technology perspective. The solution path we are pursuing, in collaboration with IT Governance & Security, is a

Software as a Service cloud-based solution. It should be noted that this is fundamentally the same way that the Learning Center has operated since 2005, with the Meridian product – hosted outside the VDOT firewall.

The specific 2015 Business Action Item that this supports is:

Objective 5.3: To build a leadership pipeline program through career planning and mapping.

Action Items:

5.3.1 Establish career maps for 10 critical groups by January 1, 2015 and introduce training and development programs that support advancement within each.

5.3.2 Develop leadership enhancement programs for mid and senior managers, and focus the Core Development Program to broad VDOT operations by July 1, 2015.

To stress the importance of this infrastructure, the following bullets highlight some of the ways the LMS serves VDOT as a critical software system. It is an imperative system for a business of our size.

- Provides a single centralized repository for agency training resources
 - o Provides end user access to over 1,000 asynchronous online courseware titles
 - o Provides access to all VDOT sponsored instructor-led (ILT) classroom offerings
 - o Links learning opportunities to specific competencies for development
 - o Provides electronic approval workflow for access/enrollment
 - o Limits access where appropriate, enforces prerequisites
- Collects and provides critical reporting data
 - o Evaluate compliance
 - o Monitor employee development
 - o Feed other data systems, including VA Performs
- Provides certification and program management support
 - o Internal and external stakeholders
 - o E-Commerce

BRnT Linear Reference System (LRS) Blitz

BRT Type:	Business Requirement for Existing Technology
Date Submitted:	7/30/2014
Mandate:	Yes
Mission Critical:	No

Description:

Surge resources to complete the backlog of LRS activities pending against all state and locally managed routes in Virginia in RNS. Prioritize LRS backlog to address mission critical activities first. Objective is to ensure accurate and thorough availability of all public roadways within the LRS for federal reporting and operational management at VDOT. The backlogged activities are:

- Optimization of LRS Processing, defect corrections
- Implement Mile Post processing in RNS Core
- Re-projection of the maps to a supported standard (WGS84)
- Intersection Design, Intersection Tools, data import and manual corrections
- Editing of routes and sequencing for the existing Errors and Omissions (E&O's) and QA identified problem areas for the interstate, primary, secondary and local roadways. Route numbers and street names are both included in this effort.
- LRS Build Processing of all current and incoming County Resolutions, VDOT projects and nonVDOT projects
- QA Script Enhancements, QA Processing (Pre & Post LRS Build runs), LRS Dashboard

BRnT Maintenance Management Solution

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BRT Type:	Business Requirement for New Technology
Date Submitted:	8/13/2014
Mandate:	Yes
Mission Critical:	Yes
Description:	
This business requirement is to replace the VDOT Asset Management System (AMS) with a comprehensive solution to improve the planning, implementation and evaluation of the statewide Maintenance Program. This system has been designated as sensitive due to Critical Infrastructure Information (CII).	
BRnT Managed Print Services	
BRT Type:	Business Requirement for New Technology
Date Submitted:	9/19/2016
Mandate:	No
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 ModTag Rewrite	
BRT Type:	Business Requirement for New Technology
Date Submitted:	12/3/2014
Mandate:	
Mission Critical:	
Description:	
This business requirement is to rewrite the ModComp and Tag (ModTag) software, so it is compatible with Windows 7. The old software works off of DOS and is difficult to load. ModComp and Tag (ModTag) structural analysis software automates the pavement evaluation and analysis process. ModTag calculates the structural index of pavement using a falling weight deflectometer (FWD) and allows for multiple instances of data validation prior to performing a final analysis, with multiple test runs recorded in a single file. The application is used by other states DOTs and Federal agencies. ModTag was written in-house using Visual Basic 6 and C#.net with an Access 2003 back end. There is no interface with any other VDOT application. Data can be downloaded into Excel. ModTag also uses a back calculation program developed by Cornell University called ModComp that is written in Fortran.	
BRnT MS4 Data Management Solution	
BRT Type:	Business Requirement for New Technology
Date Submitted:	8/29/2016
Mandate:	Yes

Mission Critical:	
Description:	
Create a system of record for Municipal Separate Storm Sewer Systems reporting requirements. This project consolidates data sources, and eliminates standalone, and manual (paper) records for meeting EPA reporting requirements.	
BRnT Online Recruitment Tool	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	9/1/2017
Mandate:	
Mission Critical:	
Description:	
Software as a service to collect and store information about potential VDOT job seekers, schedule job fair appointments and interact via social media and cloud.	
BRnT Operations Dashboard	
BRT Type:	Business Requirement for New Technology
Date Submitted:	8/22/2014
Mandate:	No
Mission Critical:	No
Description:	
This business requirement is to create an operations dashboard to monitor metrics such as road incidents and delays, road conditions, VSP data, and snow removal operations. The dashboard would allow views at a state level with the capability to drill down to District and Residency levels.	
BRnT Outdoor Advertising Data Management	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	2/13/2017
Mandate:	No
Mission Critical:	No
Description:	
Integrate and enhance two current databases used by the Outdoor Advertising program. Currently there is a cloud-hosted GIS database for field inspections and a SQL server based "business" database that deals with permit billing and payments. The "business" database also interfaces with a web payment portal. This project is to streamline and optimize these data sources into a single system that can be access by agents in the field.	

BRnT Physical Access Control System Upgrade and Replacement

BRT Type:	Business Requirement for New Technology
Date Submitted:	3/11/2015
Mandate:	
Mission Critical:	

Description:

This business requirement for technology is to replace the physical access control system (PACS) at VDOT and to address 2 operational risks/issues (ORIs) for obsolete technology. The work effort includes replacement of panels, controllers, software, and the badging workstations that reside on the COV network. The current solution is running on Windows 2000 servers and requires XP workstations. VDOT is paying a higher cost for 60 XP workstations at this time.

BRnT Project Portfolio Management (PpM) at VDOT

BRT Type:	Business Requirement for New Technology
Date Submitted:	7/30/2014
Mandate:	Yes
Mission Critical:	Yes

Description:

Project Portfolio Management (PPM) is the management of processes, methods, and technologies used by project managers and program managers to analyze and collectively manage current or proposed projects/programs based on numerous key characteristics. In support of House Bill 2 and other similar initiatives, VDOT desires a portfolio management solution that will enable optimal utilization of available funding to maximize program delivery and benefits from projects objectively and quantifiably selected through the Six Year Improvement Program (SYIP) process, and to provide tools to aide in the management and execution of the program. Existing technologies supporting this need include the iSYP Suite of applications. The technical platform for the VDOT SYIP Technology Suite is grossly outdated and current business processes supporting the development of the SYIP are cumbersome and inefficient. Project selection and procurement is listed as a key risk factor in the VDOT Strategic Plan. This business need aligns with Agency Goal #1: Plan – Effectively prioritize, plan and fund programs, projects, and services to deliver a safe and reliable transportation system.

BRnT Road Network System (RNS) Needs Assessment and Requirements

BRT Type:	Business Requirement for New Technology
Date Submitted:	8/15/2016
Mandate:	No
Mission Critical:	No

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 Safety Loss Control Data Management System

BRT Type:	Business Requirement for New Technology
Date Submitted:	
Mandate:	
Mission Critical:	Yes

Description:

Global management of Safety and Health forms related to Injuries, Tort, Drug Testing, Training Certifications, etc. Internal resources would be required for data migration and interfaces to existing systems.

BRnT SARA Replacement

BRT Type:	Business Requirement for New Technology
Date Submitted:	9/20/2017
Mandate:	No
Mission Critical:	No

Description:

The System Access Request Application (SARA) used by VDOT staff runs on an obsolete technology set. In addition, the functionality available is limited and needs enhancement and modernization. VDOT desires a robust Identity and Access Management System to replace the functions currently completed within SARA. Detailed requirements will be captured to sufficiently analyze and recommend a replacement for SARA.

BRnT Single Sign On

BRT Type:	Business Requirement for New Technology
Date Submitted:	9/18/2017

Mandate:	Yes
Mission Critical:	No
Description:	
Single Sign-On (SSO) is a session and user authentication service that permits a user to use one set of login credentials to access multiple applications. This request is to pursue a SSO strategy and technology solution.	
BRnT Social Media Data Aggregation	
BRT Type:	Business Requirement for New Technology
Date Submitted:	9/16/2017
Mandate:	No
Mission Critical:	Yes
Description:	
Several divisions are interested in leveraging social media to provide information VDOT can use in the following ways: To identify and verify traffic and emergency incidents going on throughout the public safety and transportation sectors, as well as gather information post disaster for the Safety, Security, and Emergency Management division; to collect reportable metrics for the Virginia Technology Research Council division and to gather information from our citizens about how VDOT is viewed for the Communications team. This social media information should be able to be aggregated by subject matter areas; produce reportable metrics, and capture data from multiple social media platforms to be aggregated to report information.	
BRnT Statewide Advanced Traffic Management Systems (ATMS)	
BRT Type:	Business Requirement for New Technology
Date Submitted:	8/4/2014
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 Snow Operations Systems Assessment

BRT Type: Business Requirement for New Technology

Date Submitted: 9/16/2017

Mandate: No

Mission Critical: No

Description:

A needs assessment and planning project is proposed to examine the technology, processes, and data flows associated with Snow Operations in the NoVA district. The assessment and planning project will be used to quantify and qualify the return on investment associated with the consolidation/redesign of snow operations processes and technology. It will also include a detailed functional needs analysis from all applicable snow operations stakeholder groups as well as an implementation plan for the deployment of an enhanced system

BRnT Statewide Technology Asset Repository

BRT Type: Business Requirement for New Technology

Date Submitted: 8/26/2014

Mandate: No

Mission Critical: No

Description:

The Information Technology Division requires an IT Asset Management (ITAM) System to track and manage the assignment, transfer, renewal and disposal of all VDOT IT assets (hardware, software, desktop printers, etc.). The system will include an inventory of all hardware equipment and software licenses. The current process utilizes spreadsheets, network files and e-mails, and is out of compliance with the Commonwealth and Agency IT security standards.

Supporting technology requirements include the LANDesk (LD) COTS package for Asset Lifecycle Management (ALM) and Data Analytics for Managed Intelligence (DA-MI). LANDesk Management Suite (LDMS) is the tool used by VITA/NG for ITAM. The use of LD products by VDOT will enable the sharing of discovery data from agents on NG leased assets for hardware inventory and software compliance management. Through this data sharing, VDOT avoids the cost of purchasing the LDMS core and deploying redundant agents on 7,000 leased assets.

BRnT Straight Line Diagram

BRT Type: Business Requirement for New Technology

Date Submitted: 7/28/2014

Mandate: Yes

Mission Critical: No

Description:

As part of the Agency's FY 15 business plan, Straight Line Diagram (SLD) capability is required to enable VDOT business units to prepare and analyze data for use in current federally mandated reports. The SLD allows multiple data types to be displayed at the same time, facilitating simple analysis. VDOT provides this geospatially enabled data to local, state and federal agencies to support future planning and engineering and a variety of specialized government reports and analysis. This data will be used to meet many of VDOT's upcoming MAP-21 reporting obligations

BRnT Tableau Server

BRT Type:	Business Requirement for New Technology
Date Submitted:	4/8/2015
Mandate:	No
Mission Critical:	No

Description:
 VDOT has been using Tableau for two years now. Successful adoption of the product prompted us to expand from named-user license on Tableau Server to an 8-core License in 2014. Usage of Tableau has continued to grow since that time. We need to expand our total license from 8 cores to 16 cores to ensure adequate performance for existing content and several high-profile initiatives currently under development.

BRnT Title VI Compliance

BRT Type:	Business Requirement for New Technology
Date Submitted:	12/16/2016
Mandate:	No
Mission Critical:	

Description:
 VDOT needs to gain efficiencies through automation with its already compliant Title VI Program as mandated by FHWA.
 There is a lack of efficiency with the Civil Rights Title VI compliance program as it consists of completely manually processes – electronic documents and communications all sent via email, wet signatures on paper forms, monitoring and tracking status for entire Program in Excel.
 There is no central repository for the forms and supporting documentation for Consultants/Sub-consultants, Metropolitan Planning Organizations (MPOs), Planning District Commissions (PDCs) and Local Public Agencies (LPAs.)
 There is only once monthly snapshots of Consultant/Sub-consultant status on application process for other business units to view and none at all for MPOs/PDCs/LPAs for District Civil Rights Managers and Corporate Office Title VI Specialist that manages the program.
 There is currently no training program in place for the LPAs.
 Retire the current Access database and eliminate the need to display status information on Inside VDOT (manually updated monthly.)

BRnT Traffic Control System Cyber Security

BRT Type:	Business Requirement for New Technology
Date Submitted:	6/30/2017

Mandate:	No
Mission Critical:	
Description:	
<p>VDOT is seeking to strengthen the security for the Operational Technology network and systems within the Northern Region Operations (NRO). This will be implemented via a SOW with Impact Makers who will ensure the following deliverables, including: network security redesign, field cabinet hardening, network traffic monitoring, password and encryption review and insider threat review.</p> <p>The scope of this project will include Intelligent Traffic System (ITS) devices managed by VDOT Northern Region Operations. The focus of the project will be on the Operational Technology (OT) network and components within this region. The objective of this engagement is to implement security controls in accordance with COV Information Security Standards (SEC501-09) and the Department of Homeland Security (DHS) guidelines.</p>	
BRnT Traffic Data Performance Management System	
BRT Type:	Business Requirement for New Technology
Date Submitted:	
Mandate:	
Mission Critical:	Yes
Description:	
<p>The purpose of the TDPMS project is to implement a reliable, web-accessible solution for analysts to access, view, and consolidate traffic volume and safety data from different sources in order to effectively plan and respond to data calls and to conduct analysis of congestion and its causes.</p> <p>Specific Solution - The iPeMS extracts information from real-time intelligent transportation systems (ITS) and other sources, processes it, and stores in a data warehouse for user access through a web application. There are three main components to the iPeMS solution: the data processing engine, data warehouse, and user interface application. The user interface application is an object-oriented PHP application running on an Apache web server. It provides the user with real-time traffic condition views, detector health, freeway performance measures, and administrative functions such as access control, user account management, and usage reports.</p> <p>Customers - Key customers within VDOT served by this project are:</p> <ul style="list-style-type: none"> - Traffic Engineering Division - Operations Division - Information Technology Division - Transportation and Mobility Planning Division - Regional Operations - District Planning Divisions - Virginia Center for Transportation Research Innovation and Research - Business Transformation Office <p>Benefits – Completion of the project will provide the following benefits:</p> <ul style="list-style-type: none"> - data sharing across divisions and regions within VDOT - access to data not previously available - efficiencies in work processes - visualization of data - new functionalities to analyze data to include map-based displays 	
BRnT VDOT Cardinal	

BRT Type:	Business Requirement for New Technology
Date Submitted:	9/19/2014
Mandate:	No
Mission Critical:	
Description:	
Part 3 of Cardinal – the statewide rollout of General Ledger, Accounts Payable, Expense, and Accounts Receivable – Cash Receipts functionality is scheduled for completion in February 2016. VDOT will need its own instance of Cardinal in order to move forward with implementing additional modules unique to VDOT such as Inventory or Human Resources.	
BRnT VDOT Document and Process Management	
BRT Type:	Business Requirement for New Technology
Date Submitted:	10/7/2014
Mandate:	
Mission Critical:	
Description:	
This business requirement is for a comprehensive work flow solution for document and process management at VDOT. The solution will enable visibility into when processes begin and end; identify process bottlenecks; and enable dashboard and metrics reporting. This requirement was identified by the VDOT Business Transformation Office.	
BRnT VDOT Succession Management Project	
BRT Type:	Business Requirement for New Technology
Date Submitted:	
Mandate:	
Mission Critical:	No
Description:	
VDOT needs to perform an in depth analysis of the solution requirements for a Succession Management system at VDOT; recommend either an internally developed or external vendor implementation; and to manage the solution implementation performed by the selected provider.	
BRnT Video Teleconference (VTC) System at VDOT Hampton Roads	
BRT Type:	Business Requirement for New Technology
Date Submitted:	2/22/2018
Mandate:	No
Mission Critical:	No
Description:	
This request is for materials and equipment to install a Video Teleconference System at the VDOT	

location in Hampton Roads.

BRnT-Sharon's business need

BRT Type: Business Requirement for New Technology

Date Submitted: 9/14/2017

Mandate:

Mission Critical:

Description:

Need a new system

Report Title: Appendix A 18 - 20 Report

Agency: Department of Transportation (VDOT)

Agency Head Approval:

No

Budget Category: Major Projects				
Accounts Payable Automation Project				
Appropriation Act/Funding Status			Investment Business Case Approval -	
<p>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 an anticipated ROI of 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.</p>				
Planned project start date:	12/15/2017	Planned project end date:	6/30/2018	
PPEA Involvement:	No			
Estimated Costs:	Total	General Fund	Nongeneral Fund	Nongeneral Funding Source
Project Cost (estimate at completion):	\$1,750,000	\$0	\$1,750,000	
Estimated project expenditures first year of biennium:	\$270,000	\$0	\$270,000	Non-general - State

Estimated project expenditures second year of biennium:	\$270,000	\$0	\$270,000
Funding Required:			
	Total	General	Nongeneral
Funding required for first year of biennium:	\$0	\$0	\$0
Funding required for second year of biennium	\$0	\$0	\$0
Service Area			Weight
501 Department of Transportation (VDOT)			Primary
Project Related Procurements			
Accounts Payable Automation Procurement			
Procurement Description:	<p>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.</p> <p>Substantial productivity savings are expected across the agency with an anticipated ROI of 228% after five years. Characteristics of the solution include: standard implementation /configuration and scalability.</p> <p>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.</p> <p>Multiple options are being exploring, seeking to leverage COTS products and Cloud solutions.</p>		
Planned Delivery Date:	10/23/2017		
CEDAR Upgrade Project			
Appropriation Act/Funding Status		Project Initiation Approval - Fully Funded NGF 100%	
<p>The CEDAR Upgrade Project is focused around deliver two new modules with enhancement to an existing CEDAR system module and enhancement to GIS related functionality in other program areas of CEDAR. These Modules and enhancements will enable more efficient workflow, automate manual processes, improve data accuracy, is a component of the Commissioner's response to EPA audit findings, while also helping to reduce the risk of penalties associated with regulatory mandates. Modules and enhancements will focus on delivery of new capabilities for TMDL/MS4, Facilities Compliance, GIS, and FPWR.</p> <p>Two modules will be added to CEDAR handling TMDL/MS4, Facilities Compliance, along with GIS and FPWR enhancements.</p>			

The Environmental Division uses the CEDAR system as a cornerstone for numerous business processes. Other agencies within COV also access CEDAR.

The solution approach leverages Geospatial systems deployed within VDOT.

Major benefits encompass:

- Fulfill Commissioner’s response to EPA audit findings (MS4 – TMDL and Facilities Compliance).
- Improve compliance with state and federal regulatory requirements.
- Create improved confidence with regulatory agencies for reporting and program execution.
- Implement integrated, enterprise solution to eliminate reliance on inefficient and obsolete stand-alone tools.
- Modernize data collection processes using mobile devices to improve overall efficiency and accuracy of the program.
- Consolidate and create collaborative storage locations to eliminate email distribution dependency and create consistent document management and reporting capability.
- Reduce application footprint by eliminating four (4) consultant managed databases paid by the business.

Planned project start date:	2/20/2018	Planned project end date:	10/30/2021
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PPEA Involvement:	No
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Estimated Costs:	Total	General Fund	Nongeneral Fund	Nongeneral Funding Source
Project Cost (estimate at completion):	\$3,740,000			
Estimated project expenditures first year of biennium:	\$1,791,984	\$0	\$1,791,984	
Estimated project expenditures second year of biennium:	\$1,773,026	\$0	\$1,773,026	

Service Area	Weight
Environmental Spatial Data Management	Primary
L&D MS4 Regulatory Compliance System	Secondary
MS4 Data Management Solution	Secondary
Municipal Separate Storm Sewer System (MS4) Project	Secondary

Project Related Procurements

CEDAR Upgrade Procurement

Procurement Description:	<p>VDOT has developed a proprietary system named Comprehensive Environmental Data and Reporting (CEDAR) that is used for managing workflow and information related to environmental impacts and regulatory requirements of VDOT programs.</p> <p>This project is the outgrowth of efforts within the Environmental Division to review its business needs for the CEDAR system with the aim of gaining efficiencies within some existing programs as well as to continue to respond</p>
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to existing and new regulations. Significant savings are expected by automating manual efforts while also improving the accuracy and timeliness of new data put into the system. Workflow efficiencies will also result in reducing the amount of time taken to setup, approve and manage projects resulting in improved service.

The Environmental team identified 4 high priority program areas that are new or require significant enhancements for these programs:

- * Municipal Separate Storm Sewer System (MS4) / Total Maximum Daily Load (TMDL)
- * Facilities Compliance
- * GIS Solution for the Environmental Division
- * Fish, Plant and Wildlife Resources (FPWR)

This project will address each of the four areas in a multi-phased approach.

Planned Delivery Date:	3/1/2018		
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Construction Documentation Management

Appropriation Act/Funding Status	Project Initiation Approval - Fully Funded NGF 100%
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The project will develop standardized business process workflows that will automate the creation, storage and status designation of VDOT construction documents. It will step personnel through designated workflows, storing construction documents in a standard SharePoint repository that will have a standard set of folders for documents at each level of the construction process from final design through the end of construction.

Planned project start date:	1/17/2013	Planned project end date:	8/2/2018
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PPEA Involvement:	No	
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Estimated Costs:	Total	General Fund	Nongeneral Fund	Nongeneral Funding Source
Project Cost (estimate at completion):	\$2,961,400			
Estimated project expenditures first year of biennium:	\$1,687	\$0	\$1,687	
Estimated project expenditures second year of biennium:	\$0	\$0	\$0	

Service Area	Weight
501 VDOT 60315 Highway Construction Program Management	Primary
501 VDOT 51408 Environmental Monitoring and Compliance for Highway Projects	Secondary
501 VDOT 60201 Ground Transportation System Planning	Secondary
501 VDOT 60204 Ground Transportation Program Management and Direction	Secondary

501 VDOT 60302 Dedicated and Statewide Construction		Secondary		
501 VDOT 60303 Interstate Construction		Secondary		
501 VDOT 60304 Primary Construction		Secondary		
501 VDOT 60306 Secondary Construction		Secondary		
501 VDOT 60307 Urban Construction		Secondary		
There are no procurements for this project.				
Highway Maintenance Management System				
Appropriation Act/Funding Status		Project Initiation Approval - Fully Funded NGF 100%		
<p>Project Approach: The Virginia Department of Transportation (VDOT) undertook the task of an assessment of commercially-available asset management system (AMS) software. This process resulted in effective and efficient definition of functional and technical requirements which confirmed the business processes. Buy vs. build analysis was subsequently conducted resulting in the decision that a COTS product will be a viable and cost effective solution.</p> <p>An RFP for a Highway Maintenance Management System will therefore be processed to select the desired solution.</p> <p>Integration, customization, testing and deployment for HMMS will be done after the contract is awarded. Custom interface development within various systems will be developed by VDOT internal IT Staff.</p> <p>Customers - Key customers within VDOT served by this project are:</p> <ul style="list-style-type: none"> - Maintenance Division - Structure and Bridge Division - Fiscal Division - Traffic Engineering Division - Operations Division - Information Technology Division - Business Transformation Office <p>Benefits – Completion of the project will provide the following benefits:</p> <ul style="list-style-type: none"> • Implementation of effective Asset/Inventory Management • Providing comprehensive Work Order Management • Ability for Resource Planning, Scheduling, & Utilization • Ability for Work Planning and Budgeting • Cost effectiveness and operation efficiency using Mobile Technology • Detailed Analysis and Reporting for forecasting and data management 				
Planned project start date:	5/23/2016	Planned project end date:	12/14/2018	
PPEA Involvement:	No			
Estimated Costs:	Total	General Fund	Nongeneral Fund	Nongeneral Funding Source
Project Cost (estimate at completion):	\$11,672,143			
Estimated project expenditures first	\$0	\$0	\$0	

year of biennium:			
Estimated project expenditures second year of biennium:	\$0	\$0	\$0
Service Area			
501 VDOT 60401 Interstate Maintenance	Primary		
501 VDOT 60402 Primary Maintenance	Secondary		
501 VDOT 60403 Secondary Maintenance	Secondary		
501 VDOT 69915 Facilities and Grounds Management Services	Secondary		
Project Related Procurements			
Highway Maintenance Management System Procurement			
Procurement Description:	<p>Review the current business process. Plan on using a RFP to select a Vendor to provide a software solution, and assist in the setup, installation and training to ensure the VDOT Organization is well versed in the tools needed to create reports and perform the necessary support for the different VDOT operation areas and create reports to help manage the Highway Maintenance operations. This is expected to be Will be a COTS Implementation that will seek to:</p> <ul style="list-style-type: none"> · Include an Integrated, geospatially-enabled, holistic state-of-the-art solution software that meets VDOT's business and system requirements. · Develop processes to integrate with, modify, or replace HMMS components for planning, budgeting, asset management, expenditure tracking, work order processing, staff management and time recording, emergency and incident and management, and customer relationship management. · Integrate the HMMS solution with additional asset management inventory, and the Roadway Network System (RNS), and VDOT's Linear Referencing System (LRS). · Implement analysis and reporting for Pavement, Ancillary Structures, Fixed Bridges and Culverts, Roadside Maintenance, and Moveable Bridges and Tunnels. · Convert and load VDOT's current asset management data and performance models into the HMMS solution. 		
Planned Delivery Date:	6/30/2018		
SMART SCALE - SMART Portal Enhancements Project			
Appropriation Act/Funding Status		Project Initiation Approval -	
The scope of this project is to deliver new functionality to allow for application re-submission, new applications submission to multiple grant programs, enhancements to the validation/screening/scoring processes and to improve the user interface to update decisions online.			
Planned project start date:	4/3/2017	Planned project end date:	7/31/2019
PPEA Involvement:	No		

Estimated Costs:	Total	General Fund	Nongeneral Fund	Nongeneral Funding Source
Project Cost (estimate at completion):	\$3,200,000			
Estimated project expenditures first year of biennium:	\$1,480,007	\$0	\$1,480,007	
Estimated project expenditures second year of biennium:	\$0	\$0	\$0	
Service Area				
				Weight
501 VDOT 60404 Transportation Operations Services				Primary
505 DRPT 60901 Public Transportation Programs				Primary
501 VDOT 60508 Highway Safety Services				Secondary
501 VDOT 69902 Information Technology Services				Secondary
Project Related Procurements				
SMART SCALE - SMART Portal Enhancements Procurement				
Procurement Description:	The scope of this project is to deliver new functionality to allow for application re-submission, new applications submission to multiple grant programs, enhancements to the validation/screening/scoring processes and to improve the user interface to update decisions online.			
Planned Delivery Date:	3/20/2017			

Report Title: Appendix A 18 - 20 Report

Agency: Department of Transportation (VDOT)

Agency Head Approval: No

Stand Alone Major Procurements

Procurement Name:	Advanced Transportation Controllers (ATC) Hardware and Firmware Procurement		
Procurement Description:	<p>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.</p> <p>The plan includes: Phase I – Concept of Operations - COMPLETE Phase II – Procurement of ATC Hardware & Firmware - \$4.5M</p>		
Procurement Planned Start Date		Procurement Planned Completion Date	9/6/2017
		Appropriation Act Status	
Service Area			Weight
There are no service areas for this project.			
Procurement Name:	Agile Assets Software License and Maintenance Procurement		
Procurement Description:	Operational, maintenance and customer support for the AgileAssets Pavement Management System.		
Procurement Planned Start Date		Procurement Planned Completion Date	4/1/2017
		Appropriation Act Status	
Service Area			Weight
There are no service areas for this project.			
Procurement Name:	Oracle Licenses and Support FY18		
Procurement Description:	<p>This PBA is being submitted to purchase additional Oracle licenses, upgraded licenses, new support, and migrated support/back support under the terms and conditions of the Mythics VITA Contract VA-170130-MYTH. VDOT presently owns Oracle database licensing for: 40 Processor licenses, 1800 Concurrent User licenses Based on our current level of Oracle database software use, we need: 166 Processor licenses, 3575 Concurrent User licenses The remedy for the difference is to purchase the licenses. All applications are delivering important VDOT business functionality so discontinuing use is not a viable option.</p>		
Procurement Planned Start		Procurement	9/6/2017

Date		Planned Completion Date	
		Appropriation Act Status	
Service Area			Weight
There are no service areas for this project.			
Procurement Name:	Staff Augmentation FY19 Procurement		
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 can not 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 Planned Start Date		Procurement Planned Completion Date	6/20/2018
		Appropriation Act Status	
Service Area			Weight
There are no service areas for this project.			
Procurement Name:	Statewide Advanced Traffic Management System (Statewide ATMS) Procurement		
Procurement Description:	<p>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:</p> <ul style="list-style-type: none"> 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 Planned Start Date		Procurement Planned Completion Date	9/21/2016
		Appropriation Act Status	
Service Area			Weight
BRnT Statewide Advanced Traffic Management Systems (ATMS)			Primary
Procurement Name:	StreetLight InSight Travel Metrics Application Procurement		

Procurement Description:	<p>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."</p> <p>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.</p>		
Procurement Planned Start Date		Procurement Planned Completion Date	8/22/2016
		Appropriation Act Status	
Service Area			Weight
There are no service areas for this project.			
Procurement Name:	VDOT Managed Print Services (Central Office and District Add On Units)		
Procurement Description:	<p>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.</p> <p>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.</p>		
Procurement Planned Start Date		Procurement Planned Completion Date	8/8/2017
		Appropriation Act Status	
Service Area			Weight
There are no service areas for this project.			
Procurement Name:	VDOT Managed Print Services Procurement		
Procurement Description:	<p>This procurement is the first of multiple procurements for Managed Print Services under the VITA contract VA-13045-XERX. The first phase involves replacing current Multifunctional Devices (MFDs) at the District Offices of Northern Virginia, Culpeper, and Bristol along with ITD in Central Office, and 1 MFD in Human Resources. This phase involves a total of 78 MFDs and is expected to save VDOT over \$700,000 over five years.</p> <p>Subsequent phases will include the entire networked printer fleet of VDOT which totals nearly 1,400 statewide with an estimated savings once full implementation complete of \$950,000 per year based on vendor assessments and current costs.</p>		
Procurement Planned Start Date		Procurement Planned Completion Date	10/17/2016
		Appropriation Act Status	

Service Area		Weight	
There are no service areas for this project.			
Procurement Name:	Wide Format Plotter Lease Renewal Procurement		
Procurement Description:	VDOT has a high value request for 5 year lease renewal of HP and OCE Wide Format Plotters. Estimated annual value of \$450,000. New lease will utilize VITA contract numbers VA-130405-DALY and VA-130405-COBB.		
Procurement Planned Start Date		Procurement Planned Completion Date	11/22/2016
		Appropriation Act Status	
Service Area		Weight	
BReT VDOT IT Existing Technology Support		Primary	
BReT VDOT IT Software Renewals		Primary	

Stand Alone Non-Major Procurements

Procurement Name:	AASHTOWare License Renewal FY19 Procurement		
Procurement Description:	This procurement is for the FY19 AASHTOWare Bridge & AASHTOWare Project license renewals.		
Procurement Planned Start Date		Procurement Planned Completion Date	6/1/2018
		Appropriation Act Status	
Service Area		Weight	
There are no service areas for this project.			
Procurement Name:	Crown Peak Subscription Renewal Procurement		
Procurement 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.		
Procurement Planned Start Date		Procurement Planned Completion Date	8/26/2016
		Appropriation Act Status	
Service Area		Weight	
There are no service areas for this project.			
Procurement Name:	Cyber Security Review for Field Networks and Devices		
Procurement Description:	The VDOT Cyber Security Review for Field Networks and Devices is intended to develop solutions to strengthen the cyber security posture of the Operational Technology (OT) networks and systems within VDOT's Northern Region Operations (NRO) area. The work will include recommendations on mitigation strategies.		

	We are seeking the consultant support to provide assessment and recommendation of best practices for configuration of field networks to address potential cyber sec issues.		
Procurement Planned Start Date		Procurement Planned Completion Date	2/1/2018
		Appropriation Act Status	
Service Area			Weight
There are no service areas for this project.			
Procurement Name:	Dell SAN Procurement		
Procurement Description:	In support of the EZPass application, the Tolling Division requires a system able to support over 15 toll roads, and to keep up with 4000+ transactions a second. This procurement is for an XtremIO SAN which will replace the Dell Compellent SAN.		
Procurement Planned Start Date		Procurement Planned Completion Date	7/6/2018
		Appropriation Act Status	
Service Area			Weight
There are no service areas for this project.			
Procurement Name:	Dell Server Procurement		
Procurement Description:	The Tolling Division requires a system able to support over 15 toll roads, and to keep up with 4000+ transactions a second. The tolling system requires new servers to support the business need. The servers must support 2 applications for both the EZPASS system and the violation system. The system must be available 24/7/365.		
Procurement Planned Start Date		Procurement Planned Completion Date	8/1/2018
		Appropriation Act Status	
Service Area			Weight
There are no service areas for this project.			
Procurement Name:	EBB Content Player Subscription Renewal Procurement		
Procurement Description:	Procurement of 38-month Subscription License Renewal of FourWinds Interactive Hosted Infrastructure Content Player for the period of 12/01/16-01/31/20. Monthly subscription cost is \$14,500 resulting in a total procurement cost of \$551,000.		
Procurement Planned Start Date		Procurement Planned Completion Date	4/1/2017
		Appropriation Act Status	
Service Area			Weight

There are no service areas for this project.			
Procurement Name:	EBB Licensing Subscription Renewal Procurement		
Procurement Description:	This procurement is to upgrade and convert existing licenses to enterprise licenses and to convert existing licenses to individual add-on enterprise licenses. This license agreement will supersede the previous Four Winds license agreement and will (retroactively) cover the period of time starting 12/1/16 - 1/21/20.		
Procurement Planned Start Date		Procurement Planned Completion Date	5/15/2018
		Appropriation Act Status	
Service Area			Weight
There are no service areas for this project.			
Procurement Name:	Maintenance and Support of Advanced Revenue Collection System at Coleman Toll Facility		
Procurement Description:	A contract to support the maintenance and support of the Advanced Revenue Collection System at Coleman Toll Facility.		
Procurement Planned Start Date		Procurement Planned Completion Date	2/6/2018
		Appropriation Act Status	
Service Area			Weight
There are no service areas for this project.			
Procurement Name:	Managed Print Services Solution Fredericksburg (District, Residencies & Area Headquarters) Procurement		
Procurement Description:	<p>This procurement is the third of multiple procurements for Managed Print Services under the VITA contract VA-13045-XERX. The third phase involves replacing current Multifunctional Devices (MFDs) in the Fredericksburg District, including respective AHQs and Residencies. This phase involves a total of 67 MFDs and is expected to save VDOT around \$44,000 not including impression charges, per year over five years.</p> <p>Subsequent phases will include the remaining districts and divisions networked printer fleet of VDOT which totals nearly 1,400 statewide with an estimated savings once full implementation complete of \$950,000 per year based on vendor assessments and current costs.</p>		
Procurement Planned Start Date		Procurement Planned Completion Date	6/15/2017
		Appropriation Act Status	
Service Area			Weight
There are no service areas for this project.			
Procurement Name:	Skillsoft Online Courseware and Library License Renewal Procurement		
Procurement Description:	This procurement 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		
Procurement Planned Start Date		Procurement Planned Completion Date	11/17/2017
		Appropriation Act Status	
Service Area			Weight
There are no service areas for this project.			
Procurement Name:	VDOT Managed Print Services (Hampton Roads) Procurement		
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.		
Procurement Planned Start Date		Procurement Planned Completion Date	6/22/2018
		Appropriation Act Status	
Service Area			Weight
There are no service areas for this project.			
Procurement Name:	VDOT Managed Print Services (Lynchburg) Procurement		
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 Planned Start Date		Procurement Planned Completion Date	8/1/2018
		Appropriation Act Status	
Service Area			Weight
There are no service areas for this project.			
Procurement Name:	VDOT Managed Print Services (Northern VA, Culpeper, Bristol) Procurement		

Procurement Description:	<p>This procurement is the second of multiple procurements for Managed Print Services under the VITA contract VA-13045-XERX. The second phase involves replacing current Multifunctional Devices (MFDs) at the AHQs and Residencies of Northern Virginia, Culpeper, and Bristol. This phase involves a total of 127 MFDs and is expected to save VDOT nearly \$185,000, not including impression charges, per year over five years.</p> <p>Subsequent phases will include the remaining districts and divisions networked printer fleet of VDOT which totals nearly 1,400 statewide with an estimated savings once full implementation complete of \$950,000 per year based on vendor assessments and current costs.</p>		
Procurement Planned Start Date		Procurement Planned Completion Date	6/15/2017
		Appropriation Act Status	
Service Area			Weight
There are no service areas for this project.			
Procurement Name:	VDOT Managed Print Services (Staunton) Procurement		
Procurement Description:	<p>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.</p> <p>*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.</p>		
Procurement Planned Start Date		Procurement Planned Completion Date	6/1/2018
		Appropriation Act Status	
Service Area			Weight
There are no service areas for this project.			
Procurement Name:	VDOT Production Center Upgrade		
Procurement Description:	<p>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.</p> <p>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.</p> <p>This equipment incorporates advanced technology that will allow the agency to produce better quality documents and support services more efficiently while saving the agency an estimated \$13,000 per year</p>		
Procurement Planned Start Date		Procurement Planned	7/10/2017

		Completion Date	
		Appropriation Act Status	
Service Area			Weight
There are no service areas for this project.			