2024 - 2026 IT Strategic Plan

Agency: 146 The Science Museum of Virginia (SMV)

Date: 3/28/2024

Current IT State

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

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

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

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

The Science Museum of Virginia (SMV) inspires all Virginians to enrich their lives through science. Compelling science inspires and we are the marketing agency for science. We are committed to:
-Creating a fun, relevant, interactive experience for our guests and use a variety of tools to accomplish this including art, current events, popular culture, theater, technology, nature, and artifacts
-Embracing informal learning through real-world applications of STEM principles, emphasizing the scientific process and involving mentors to facilitate problem solving, and showcasing STEM careers
-Striving to connect audiences we are not currently reaching, especially those underrepresented in STEM fields
-Striving to leverage our facilities as a catalyst for our community to gather and engage
-Being opportunistic and leveraging strategic partnerships to broaden our reach and impact

Since 1977, the Science Museum of Virginia has served as a community gathering place, a leader in informal learning practices, and a resource for science, technology, engineering, and mathematics education for the Commonwealth of Virginia. While the Science Museum is headquartered in Richmond, it operates a recently reimagined satellite in Danville and is developing a new satellite in Northern Virginia. These three distinct geographical locations represent three very different audiences in Virginia. But the Science Museum is more than the physical elements housed within our walls or the content we create. The increased number of networked exhibits requires a fast, easily managed network infrastructure.

SMV has established the following goals to provide the overarching direction to help steer long-term outcomes. SMV has established the following agency objectives for the upcoming biennium.

We are currently in an improvement year with regard to IT compliance and corrective action.

Factors Impacting the Current IT

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

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

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

The nature of our business forces us to have the opportunity to rapidly change the systems we use to better serve our guests and the experience they receive. Given that we are a leisure time activity we are constantly battling to stay accessible and usable to the community we serve. The Exhibit portfolio is the heart of the museums mission, these assets require constant operation and any downtime will have a longlasting impact on the overall impression of the experience.

SMV will work with CSRM to ensure all sensitive systems are audited and compliant. SMV will also work to complete the needed CAR for any issues found in the audits.

Proposed IT Solutions

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

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

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

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

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

As the Science Museums identifies proposed solutions this section will be updated.

IT Strategic Plan Budget Tables

Agency:	146 The Science Museum of Virginia (SMV)
Date:	3/28/2024

Current IT Services

	Costs Year 1		Costs Year 2	
Category	**GF**	**NGF**	**GF**	**NGF**
Projected Service Fees	$40,000.00	$9,750.00	$40,000.00	$9,750.00
VITA Infrastructure Changes				
Estimated VITA Infrastructure	$40,000.00	$9,750.00	$40,000.00	$9,750.00
Specialized Infrastructure				
Agency IT Staff		$27,000.00		$29,350.00
Non-agency IT Staff				
Cloud Computing Service				
Other Application Costs				
Total:	$40,000.00	$36,750.00	$40,000.00	$39,100.00

Proposed IT Investments

	Costs Year 1		Costs Year 2	
Category	**GF**	**NGF**	**GF**	**NGF**
Major IT Projects:				
Non-Major IT Projects:				
Agency-Level IT Projects:				
Major Stand Alone IT Procurements:				
Non-Major Stand Alone IT Procurements:				
Agency-Level Stand Alone IT Procurements:				
Procurement Adjustment:				
Total:	$0.00	$0.00	$0.00	$0.00

Projected Total IT Budget

Category	Costs Year 1		Costs Year 2	
	GF	NGF	GF	NGF
Current IT Services	$40,000.00	$36,750.00	$40,000.00	$39,100.00
Proposed IT Investments	$0.00	$0.00	$0.00	$0.00
Total	$40,000.00	$36,750.00	$40,000.00	$39,100.00

Business Requirements For Technology

Agency:	146 The Science Museum of Virginia
Date:	3/28/2024

OSIG Website Modernization	
BRT Type:	Business Requirement for New Technology
Requested Start:	6/18/2023
Mandate:	No
Mission Critical:	Yes
Description:	

The primary objective of the COV Website Modernization and the CMS Virginia.gov projects are to ensure all state sites are on a single common platform and are following required VITA, COV and 508 standards

SMV SD-WAN Upgrade	
BRT Type:	Business Requirement for Existing Technology
Requested Start:	3/1/2023
Mandate:	Yes
Mission Critical:	Yes
Description:	

Configure existing routers to support SD-WAN capability across all agency locations. This approach prepares agency location(s) with the ability to add additional network capabilities (multiprotocol label switching (MPLS), broadband, wireless (i.e., Cradlepoint)) to take advantage of application -aware routing over private and public networks.

Three step process:

Remote internetwork operating system (IOS) software upgrade on the router.

Remote SD-WAN deployment

Circuit deployment as needed

SMV Website Modernization

BRT Type:	Business Requirement for New Technology
Requested Start:	6/15/2023
Mandate:	No
Mission Critical:	Yes
Description:	
The primary objective of the COV Website Modernization and the CMS Virginia.gov projects are to ensure all state sites are on a single common platform and are following required VITA, COV and 508 standards	

Commonwealth Procurements >= $250,000.00

There are no stand alone procurements for this agency.

Commonwealth Projects >= $250,000.00

There are no projects for this agency.