Report Title: IT Strategic Plan Summary

Agency: 409 Department of Mines, Minerals, & Energy Date: 6/28/2018

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 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?

DMME users, software and hardware follow existing VITA standards. IT related service and operation costs for the agency continue to be one of the highest concerns. DMME will continue to look for cost reductions as new or changing VITA partnership services are made available. DMME has developed custom software and extensive business applications for its office and field staff. This software has provided advanced capabilities in the areas of mapping and inspection and enforcement tools. DMME has also implemented web-based e-government services for the majority of our industry customers. These innovative changes have had a positive impact on agency service delivery and customer satisfaction and have been nationally recognized. The use of DMME's web site and social media applications continues to grow, reflecting the agencys priority of meeting the needs of its customers. DMME does not require additional funding for Agency IT Strategic Plan activities.

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?

Increasing IT costs have hindered DMMEs ability to develop new and innovative services. Customers continue to express a high demand for additional electronic government services and easily accessible information. Meeting these needs while maintaining effective software in an increasingly costly environment has been a challenge. The vast majority of custom DMME applications have been

rewritten to comply with hardware and operating system upgrades. These upgrades have been in response to security and operating system requirements, not a requirement of client or business needs. The resulting increased need for system testing and upgrades has reduced development time for needed business solutions. DMME will follow hardware refresh schedules provided by Northrop Grumman until new partnership options are made available.

IT INFRASTRUCTURE TRANSITION will be reviewed with new partnership approved vendors. DMME's data center located in Big Stone Gap will need to continue operation due to the local data storage and transfer rates.

SECURITY SHARED SERVICES will be addressed with DMME's contract with Commonwealth Security Services. DMME will continue to address any audit and ISO issues that may need additional work.

CLOUD APPLICATION HOSTING needs will be reviewed when partnership vendors are available and other agency have proven a value or savings. DMME no longer uses the Microsoft Azure site due to cost and upkeep of the service, new lower cost service will be looked at when available.

INTERNET UTILIZATION is a constant concern as more bandwidth is always a desire. DMME's current business internet services are not planned to expand greatly in the next 2 years. Internet usage and cost will be reviewed if new options are made available.

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?

Years of software development is being re-engineered to work within a less costly environment while maintaining the high standards of service for which DMME is well known. To continue to meet these standards, DMMEs e-Forms center applications will be expanded during the coming biennium to provide additional services to our industry customers. The agency's IT staff does have the skills needed to enhance, expand and support future needs.

DMME plans to refresh all user hardware in the biennium. DMME will also refresh servers and network infrastructure in the Big Stone Gap data center when new partnership contracts are awarded. Testing and supporting these upgrades will occupy a significant amount of IT staff resources. Business process owners and IT staff continually look for improvements such as cloud storage and increased use of internet-based services. DMME has also requested the support of the new IT Shared Security Service which will address the audit and risk evaluations during the biennium.

Report Title: Strategic Plan

Agency:Department of Mines, Minerals, & EnergyDate:6/28/2018

Current IT Services

	Costs	Year 1	Costs	Year 2
Category	GF	NGF	GF	NGF
Projected Service Fees	\$1,422,236	\$400,172	\$1,464,903	\$412,177
VITA Infrastructure Changes	\$0	\$0	\$0	\$0
Estimated VITA Infrastructure	\$1,422,236	\$400,172	\$1,464,903	\$412,177
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Specialized Infrastructure	\$0	\$0	\$0	\$0
Agency IT Staff	\$403,867	\$0	\$403,867	\$0
Non-agency IT Staff	\$15,000	\$20,000	\$15,000	\$20,000
Cloud Computing Service	\$0	\$0	\$0	\$0
Other Application Costs	\$54,109	\$27,037	\$54,109	\$27,037
Total	\$1,895,213	\$447,209	\$1,937,880	\$459,214

Proposed IT Investments

	Costs	Year 1	Costs	Year 2
Category	GF	NGF	GF	NGF
Major IT Projects	\$0	\$0	\$0	\$0
Non-Major IT Projects	\$0	\$0	\$0	\$0
Agency-Level IT Projects	\$0	\$0	\$0	\$0
Major Stand Alone IT Procurements	\$0	\$0	\$0	\$0
Non-Major Stand Alone IT Procurements	\$0	\$0	\$0	\$0
Agency-Level Stand Alone IT Procurements	\$0	\$0	\$0	\$0
Procurement Adjustment for Staffing	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$0	\$0

Projected Total IT Budget

	Costs	Year 1	Costs	Year 2	
Category	GF	NGF	GF	NGF	Total Costs
Current IT Services	\$1,895,213	\$447,209	\$1,937,880	\$459,214	\$4,739,517
Proposed IT Investments	\$0	\$0	\$0	\$0	\$0
Total	\$1,895,213	\$447,209	\$1,937,880	\$459,214	\$4,739,517

Agency:	Department of Mines, Minerals & Energy (DMME) Date: 6/28/2018
Authentication/di	rectory services BReT
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	9/26/2016
Mandate:	Νο
Mission Critical:	
Description:	•
	lications which will need to be migrated and tested during the authentication/directory There are 1800 users which are 200 internal and 1600 external.
BRet DMME eFor	ns enhancement
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	10/15/2014
Mara da f	No
wandate:	
Mission Critical: Description: Continue developm	nent of Web Forms used by DMME staff and external clients to replace paper forms.
Mission Critical: Description: Continue developm	
Mission Critical: Description: Continue developm The process of elec	nent of Web Forms used by DMME staff and external clients to replace paper forms. ctronic review and paperless storage will continue per the DMME Technology Plan.
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Mission Critical: Description: Continue developm The process of elec BReT DMME Inter BRT Type:	nent of Web Forms used by DMME staff and external clients to replace paper forms. ctronic review and paperless storage will continue per the DMME Technology Plan. nal Auditor Plan
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Mission Critical: Description: Continue developm The process of elec BReT DMME Inter BRT Type: Date Submitted: Mandate:	nent of Web Forms used by DMME staff and external clients to replace paper forms. ctronic review and paperless storage will continue per the DMME Technology Plan. nal Auditor Plan Business Requirement for Existing Technology
Mission Critical: Description: Continue developm The process of elec BRET DMME Inter BRT Type: Date Submitted: Mandate: Mission Critical:	nent of Web Forms used by DMME staff and external clients to replace paper forms. ctronic review and paperless storage will continue per the DMME Technology Plan. nal Auditor Plan Business Requirement for Existing Technology
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Mission Critical: Description: Continue developm The process of elect BReT DMME Inter BRT Type: Date Submitted: Mandate: Mission Critical: Description: DMME's Internal A Security Audits coor BRET DMME Mine BRT Type:	nent of Web Forms used by DMME staff and external clients to replace paper forms. ctronic review and paperless storage will continue per the DMME Technology Plan. nal Auditor Plan Business Requirement for Existing Technology 9/26/2016 uditor has established an audit plan for internal systems. This plan will include IT ordinated with VITA's IT Shared Security Service Group.
Mission Critical: Description: Continue developm The process of electric BRET DMME Inter BRT Type: Date Submitted: Mandate: Mission Critical: Description: DMME's Internal A Security Audits coordinates	Anent of Web Forms used by DMME staff and external clients to replace paper forms. ctronic review and paperless storage will continue per the DMME Technology Plan. nal Auditor Plan Business Requirement for Existing Technology 9/26/2016 uditor has established an audit plan for internal systems. This plan will include IT ordinated with VITA's IT Shared Security Service Group. Map Catalog Business Requirement for Existing Technology

Description:

DMME will continue to enhance and build a Mine Mapping Archive for use by public and industry. The archive will contain thousands of underground mining maps to be used for public safety and economic development in the coal region. This project will focus on current technology, using low cost of storage and high availability as its main goal.

BReT End of Life	2008 Server DMME
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.
Cloud Computing	I BReT
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	9/26/2016
	0.20.20.10
Mandate [.]	No
	No
Mandate: Mission Critical: Description:	
Mission Critical: Description: DMME is investiga move is to reduce	No ting moving 1 application to a Cloud services vendor. The business reason for the costs. Applications are cloud ready. Agency will not need to bring in outside consulting eds to be done to the applications and supporting infrastructure in order to become
Mission Critical: Description: DMME is investiga move is to reduce to assess what ne	ting moving 1 application to a Cloud services vendor. The business reason for the costs. Applications are cloud ready. Agency will not need to bring in outside consulting eds to be done to the applications and supporting infrastructure in order to become
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Mission Critical: Description: DMME is investiga move is to reduce to assess what ne cloud ready. Data networks BI BRT Type: Date Submitted: Mandate: Mission Critical: Description: DMME has 1 netw	ting moving 1 application to a Cloud services vendor. The business reason for the costs. Applications are cloud ready. Agency will not need to bring in outside consulting eds to be done to the applications and supporting infrastructure in order to become ReT Business Requirement for Existing Technology 9/26/2016 No ork that is not mpls which will need to be migrated.

	No
Mission Critical:	
Description:	
DMME has 100 de	sktops and 132 laptops and no network printers which will need to be migrated.
Internet Usage BF	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	9/26/2016
Mandate:	No
Mission Critical:	
Description:	
	at internet usage will increase by 20% due to additional clients accessing DMME web rencing, employee usage, and potential server relocation.
Messaging BReT	
BRT Type:	Business Requirement for Existing Technology
Date Submitted:	9/26/2016
Mandate:	No
Mission Critical:	
Description:	
-	sentanglement from NG messaging services in 2016. Messaging Services for email,
enterprise collaboration	ation services, and mobile device management are required for 200 users in our
	ave 15 applications that have backs into measuring convises which will need to be
	ave 15 applications that have hooks into messaging services which will need to be
	Collaboration Services (VITA provided SharePoint) DMME does not use WCS ve no applications serviced via AirWatch which will need remediation.
	Collaboration Services (VITA provided SharePoint) DMME does not use WCS
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	Collaboration Services (VITA provided SharePoint) DMME does not use WCS ve no applications serviced via AirWatch which will need remediation. BReT Business Requirement for Existing Technology
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SharePoint. We ha Security Services BRT Type: Date Submitted: Mandate: Mission Critical: Description: To meet Commony	Collaboration Services (VITA provided SharePoint) DMME does not use WCS we no applications serviced via AirWatch which will need remediation. BReT Business Requirement for Existing Technology 9/26/2016 No vealth Security requirements, DMME will engage VITA's Shared Security Services

BRT Type:	Business Requirement for Existing Technology		
Date Submitted:	10/9/2014		
Mandate:	No		
Mission Critical:			
Description:	•		
	sentanglement from NG servers and storage. DMME has 8 servers which will need to sted during this transition. 38 applications will be affected by this move and will need to		
Sonvor/storago inc	cluding housing of equipment BReT		
BRT Type:	Business Requirement for Existing Technology		
Date Submitted:	9/26/2016		
Mandate:	No		
Mission Critical:			
Description:			
	sentanglement from NG servers and storage. DMME has 8 servers which will need to sted during this transition. 38 applications will be affected by this move and will need to		
Voice Network BR	Ret		
BRT Type:	Business Requirement for Existing Technology		
Date Submitted:	9/26/2016		
Mandate:	No		
Mission Critical:			
Description:			
DMME has 20 UCa	aS phone lines and 128 other phone lines which will need to be migrated.		

Report Title: Appendix A 18 - 20 ReportAgency:Department of Mines, Minerals & Energy (DMME)Date:6/28/2018Agency Head Approval:No

There are no Category 1, 2, or 3 IT Projects and no Budget Category: Major IT Projects for this agency

Report Title: Appendix A 18 - 20 ReportAgency:Department of Mines, Minerals & Energy (DMME)Date:6/28/2018Agency Head Approval:No

There are no stand alone major procurements for this agency.