

Agenda

- Budget
- Goals
- Recent Improvements
- Budget Trends
- Short-Term Investments
- Long-Term Investments
- Next 12 Months

Budget

Enacted Budget (authorization)					
FY15	\$141.8 M				
FY16	\$141.5 M				
FY17	\$138.3 M				
FY18	\$132.7 M				
FY19	\$130.7 M				
FY20	\$131.3 M				

<u>Actual Spend (all funds)</u> \$118.4 M \$120.5 M \$111.8 M \$110.0 M \$112.0 M (April 30, 2019)

Outstanding	CHASE	balance*
FY15	\$71.8 M	
FY16	\$ 59.4 M	
FY17	\$42.5 M	
FY18	\$ 25.4 M	
FY19	\$ 8.3 M	
	\$ 2.8 M	(as of April 30, 2019)

*Note: beginning of each fiscal year 2014: 80.2 M start

Highlights

FY17 transfer to General Fund (GF)\$ 8.0 MFY18 transfer to GF\$10.8 MFY19 scheduled transfer to GF\$ 2.8 MFY20 scheduled transfer to GF\$ 2.8 M

Strategic Plan: Four Primary Lines of Effort

- Security
- Enterprise Services
- Contract Administration
- Training/Education

	Operational Approach					
		Security	123456			
		Enterprise Services	123456	(\mathbf{B})	21st Centur	
Current Environment		Contract Administration	123456	C	Information Technology Environmen	
		Training/Education	12346	\bigcirc		
	 1 – Securing 2 – Shared of 3 – Data Ce 4 – Single S 5 – Enterpr 	RTED OBJECTIVES g the network data environment enter restructuring ign On/Identity Management ise standards and services <u>ht of IT acquisitions and projects</u>	 DESIRED CONDITIONS A monitored and secured computing environment capable of risk detection, response, and mitigation B = State-of-the Market services provided to agencies C = A task deliverable contracting environment with approach monitoring and follow-up D = Planned workforce training and education for completion of daily tasks and investment in our future IT staff 5 			

Recent Improvements (1) Staffing Changes

- Contracting Officer (CO) works hand in hand with Finance
- Chief Compliance Officer (CCO)- offloads tasks from our Chief Information Security Officer (CISO) – focus on compliance and policy
- Enterprise Project Management Office (EPMO)- consolidated all project managers
- Chief Data Officer (CDO) all data initiatives
- Digital Transformation Office stood up and actively working projects
- Kentucky Business One Stop Actively transitioning Single Sign-on

Recent Improvements (2) Infrastructure

- Implementing converged infrastructure for servers and storage (VBlock)
- Implemented enterprise monitoring & management tools (Dynatrace)
- Managed Router Service (MRS) with AT&T reduces cost and better service (KIH3 contract)
- Reduced annual cost by \$600K by eliminating ServiceLink (datacom)
- Refreshed and Upgraded the central network core switching ("a heart transplant")
- Centralizing and standardizing Video Conferencing (Bluejeans and Skype)
- Standardizing Document Management approaches and software (OnBase)
- Upgrading the Geographic Information System (GIS) capabilities with leaf-off photogs
- Implementing the Citrix (Thin Client) environment to facilitate application modernization
- Eliminated bloated or underused consulting agreements (i.e. Gartner)
- Mainframe to the Cloud (Boulder, CO) (MaaS)

Recent Improvements (3) Security

- Implemented Multi-Factor Authentication and advanced email filtering
- Incident Response Evaluation (223,000 edge events/day, 5,700 proactive defensive actions, 30-60 events require eyes on manual analysis daily)
- Adoption of Enterprise-wide desktop Advanced threat protection and intrusion prevention
- Upgraded all enterprise firewalls and implemented Managed Router Service (MRS)
- Filled vacant critical security staffing expertise
- Enhanced Security Programming controls which has decentralized agency application code deployments
- Acquisition and Implementation of enterprise Security Incident and Event Management System (Exabeam)
- Proactive protections for workstations and servers through enhanced security detection and response (endgame)

Recent Improvements (4) Applications

- ~\$589 million annual IT spend in the executive branch, ~\$120 million is IT infrastructure
- This past 12 months has just started to elevate applications to the enterprise:
 - Single Sign-on to the enterprise
 - Service Desk
 - Single security platform
 - Application deployment platform
 - Our cloud vs "the" cloud
- Direct Support to SB77 (2019 session) and HB74 & HB400 (2018 session)
- Enterprise Content Management 3 proposed IT Capital Projects (18 Million) Moved to Onbase at no cost using existing resources – New IT Capital Project for further advancement of ECM

Recent Improvements (5) Cooperation and Collaboration

- Justice Cabinet Management Control Agreement (MCA) with Kentucky State Police
 - First Ever MCA in the Commonwealth
 - Moves Criminal Justice Information into Commonwealth Data Center
- Data Sharing Agreement Agreement amongst agencies to willingly share data which is not federally controlled. Federally controlled data sharing agreement with proper acknowledgements still required
- Local Entities and Universities reaching out to share Datacenter space and data (UK, UofL, JCPS)
- Non-Executive Branch Agencies asking to participate in shared services (Housing Authority)
- Career and Technical Education Collaboration attracting and retaining quality entry level IT staff (apprentices)

Budget Trends

- Security Nation-wide increase in Security spending (KY = 9%)
- Legacy application retirement funding
- Pass-throughs (ATT, Various Software)
- Amazon Centralized purchasing
- Enterprise Contracts
- Debt Service
- Geographical Information Services (GIS)

Short Term Investments

- Contracting project-based IT expertise (networking and desktop upgrades)
- Extension of Alternate Data Center Contract
- Mainframe applications with short-term renewals evaluating longer-term solutions

Long Term Investments

- VXBLOCK Infrastructure
- Application Monitoring (Dynatrace)
- Digital Transformation (Salesforce)
- Desktop Applications and email (Google vs Microsoft)
- Document Management (OnBase)
- Data Center Improvements (Flooring and Generator)
- Consolidation of Physical footprint (new Mero street building)

Next 12 Months

- Windows 10 upgrade current Operating System not supported after January 2020, 29,000 devices (60% complete) - Apprenticeships (2) helping rebuild Computers;
- LinuxOne Transition for Oracle Databases
- Integrated Enterprise service desk (trouble ticketing) currently 9 different trouble ticket systems in the Commonwealth
- Digital Transformation Initiatives (Employee Engagement Portal = Time Keeping, Expense Reporting; Grants Management, Professional Licensing,)
- Decision on Enterprise email and desktop applications (Microsoft/Google Discussion)
- Enterprise Resource Planning (ERP) system analysis (two completely different CGI and SAP)



