Mission

To deliver and support an innovative technology environment to strengthen the public service commitment of Fairfax County.

Focus

The Department of Information Technology (DIT) is a central technology provisioning agency that designs, manages, and implements all aspects of information technology (IT) solutions and supporting infrastructure enabling County agencies to deliver information and services. In that role, DIT is responsible for overall IT policy, governance, and enforcement for the deployment and use of countywide IT assets and resources. DIT also performs application development and integration and provides IT project management oversight for technical execution of agencies' major/core business applications. Goals for County technology include leveraging IT solution investments across the enterprise, ensuring the integrity of the County's information systems and data, and enabling secure access to County information and services. The DIT General Fund budget provides for staff and service resources based on technology specialty subject matter expertise, including systems analysts and software developers that support revenue systems (tax); corporate systems; human services agencies; land development, public works and zoning; public safety/judicial administration; Library; Park Authority; Facilities Management; and others. DIT is also responsible for the multichannel e-Government program, a specialized courtroom technology group, countywide telecommunications, data networks and radio systems, and the countywide information security program. Open data, data analytics, and smart communities are important growth areas. fosters an environment that harnesses new information, communication, and social technologies in order to empower the public services of tomorrow.

DIT continues to manage growth in demand for County agencies' needs through prudent resource planning, use of selected sourcing opportunities and investment in IT support automation tools. DIT strives to accommodate agencies' needs as they implement their strategic plans, automate business processes and introduce new technology capabilities. In addition, DIT implemented enterprise-wide programs such as mobile device management, enhanced internet capabilities such as social media, enhanced wireless infrastructure, and Geographic Information Systems (GIS). DIT also supports major business transformation and cross-agency initiatives such as the Tri-Court Courtroom Technology collaborative, land-based system processes, inspections, code enforcement, FOCUS, public safety interoperability, Integrated Human Services and Diversion First, a host of County agencies' production business applications, and regional interoperability for secure communications and data exchange.

The work of DIT is primarily performed by County staff in direct execution, project management and asset management roles. DIT utilizes private sector expertise to augment the overall capacity to develop and implement projects, and to support operational activities. Competitive contracts are used for major project efforts and commercial solutions. In addition to the General Fund, other components of the IT enterprise functions are supported by funding in other DIT funds:

Fund 60030, Technology Infrastructure Services, includes data center operations, enterprise automated productivity tools and email, the enterprise data communications network, the countywide desktop PC replacement program, servers, data storage, radio communications network, Wireless Technologies services and voice telecommunications. The County has been recognized for successful IT infrastructure and power management projects that decreased the County's carbon footprint and achieved enterprise-wide IT efficiencies and cost savings.

- Fund 60020, Document Services, supports the Print Shop, Multi-Functional Digital Device (MFD) program, Mail Room and County Archives. The MFD solution incorporates copying, printing, faxing and scanning via the County's network throughout the County government, providing flexibility and document printing and digitizing efficiencies. The Print Shop provides digital printing, offset printing and bindery services to the County and Fairfax County Public Schools. Print Services are integrated with Data Center operations, improving overall print output options and efficiencies, coverage, utilization of staff and reduced cost. The Mail Room processes outgoing and incoming U.S. mail and parcel deliveries and delivers inter-office mail daily to 263 offices in 112 County facilities. Finally, the County Archives offers expert consultations and trainings to assist agencies to maintain compliance with the numerous laws affecting the collection, retention, security, and dissemination of public records.
- Fund 10040, Information Technology, supports technology-related programs and projects
 that provide improvements, efficiencies and innovation for County agencies, citizens and
 employees and optimize enterprise-wide resources. Projects include e-Government and
 GIS initiatives; County agencies' business modernization and inter-agency applications in
 financial management, land development processes, Human Services and Public Safety
 business areas; enterprise technology infrastructure modernization projects in
 communications; and other areas such as document management, server platform
 consolidation/virtualization and 'cloud' technologies, and cyber-security.

DIT also manages significant technology programs in other funds, including supporting technology for Fund 40090, E-911; capital construction for technology infrastructure tasks in Fund 30010, General Construction and Contributions; the fiber institutional network (I-Net) in Fund 40030, Cable Communications, that interconnects over 400 County and school sites; and several Department of Homeland Security Urban Area Security Initiative (UASI) grants supporting National Capital Region (NCR) interoperability and cyber security initiatives for which Fairfax is a major stakeholder. DIT conducts the technical work and program management for the related regional projects. DIT also has a major emergency support function in its role to support the County Emergency Operations Center during natural and other disaster situations.

DIT continually seeks to find the appropriate balance between a stewardship role in leveraging County technology investments and a strategic role in pursuing and embracing opportunities to innovate and strengthen technology use that will result in high value County services and optimized cost. In fulfilling its mission, DIT builds partnerships with internal and external stakeholders. DIT uses a strategic planning process and a collaborative business and technical execution model to ultimately provide the County with the best available return on investment that facilitates the ability to meet County growth and demand for services economically. The results are manifested in modernizing processes for County operations, greater efficiencies and effectiveness in service delivery, improved opportunities for data sharing and decision-making, embracing new internet-based capabilities and mobile apps for public access to information and services, transparency, and improved utility and security of County technology and information assets.

DIT employs a broad strategy that uses technology and policy to enable cohesive public access to information and services by utilizing contemporary web-based and communication solutions, digitization and open data concepts that also will improve citizen experience in engagement with County government – a key Board priority. The e-Government program, recognized as a national model, is a multi-channel solution that includes the County's website, Interactive Voice Response (IVR) system, mobile access solutions, emergency alerts via text messaging, Customer Relationship Management (CRM) initiatives and broadcast cable television. The County embraces social media

in its e-Government program, utilizing podcasts, RSS newsfeeds, moderated discussion sessions, and County presence on YouTube, Facebook, Twitter and other outlets as e-Government tools to interact with all audiences. Social media platforms are employed to expand and redefine interactive communication and information dissemination efforts. The e-Government program also delivers mobile apps for its 'Government in the Palm of Your Hands' initiative. The County expanded government-to-citizen transparency through leadership and collaboration with the Office of Public Affairs in the adoption of capabilities and initiatives that enhance customer experience that will continue and evolve over time.

Another key technology platform is GIS. A significant number of County agencies, including Public Safety agencies, Land Development Services and the Health Department use GIS in their operations. The GIS portfolio includes "Virtual Fairfax", a 3D visualization tool, with zoom-in capability for County buildings and terrains with links to County land information systems and the Northern Virginia Regional Routable Centerline Project, a collaboration with five other Northern Virginia jurisdictions, recognized by the Commonwealth as a best practice.

DIT continues to strengthen the County's information security and disaster recovery posture which protect the County's technology assets, business operations, and data from rapidly advancing cyberattacks and IT disaster events. In ensuring the integrity and viability of the County's technology assets, DIT executes the County's security policy through strategies that build a secure technology infrastructure with security architecture and processes. The objectives of the information security program are to ensure confidentiality of information, integrity of data, systems and operations, technical compliance for the Federal Health Insurance Portability and Accountability Act (HIPAA), Payment Card Industry (PCI), other privacy mandates, and to ensure the availability and security of the County's networks, systems and data. Security architecture uses 'defense-in-depth' designed to provide protection for all levels of County information processing resources and includes application of industry best practices for overall risk reduction. Over the years, the County's security program has been nationally recognized as a best practice and based on vigilant enforcement and implementation of modern security tools, breaches or wide-scale vulnerabilities have been kept below appreciable levels.

The County has a significant leadership role in developing the technical architecture and standards that are being adopted through the National Capital Region (NCR) in regional geospatial map views, situational awareness and data and communications interoperability. This architecture also is a key foundation for the County's technology strategy that ties together agency-based independent applications and enables them to share data. The demands of the regional collaborative work continue to grow, and with this expansion it is especially important to leverage IT resources and assets. Fairfax County is often the lead jurisdiction for technical design and implementation of regional capabilities that support public safety and homeland security critical infrastructure and applications which are deemed best practices.

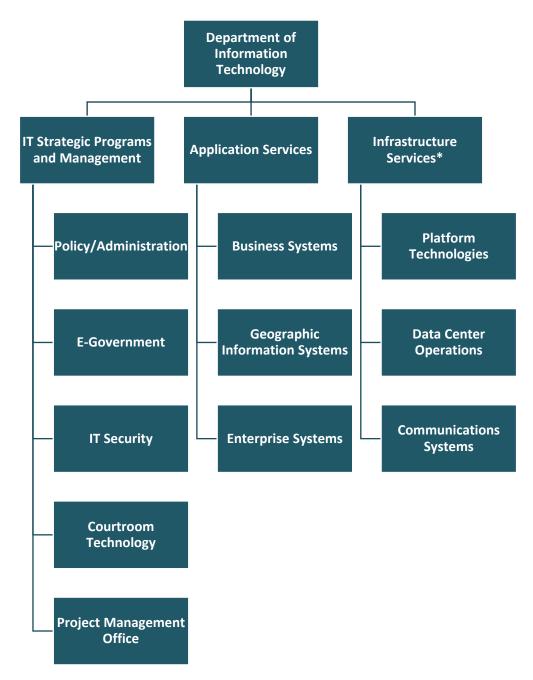
The County's overall technology programs continue to be recognized with many honors for innovation and contribution to excellence in public service and are routinely referenced in the industry as best practice examples. Fairfax County received two National Association of Counties 2019 Achievement Awards, recognizing effective and innovate programs that have a positive impact on local communities (Service Gap Analysis Interactive Map: Older Adults and Stream Critter Cube Lab). Fairfax County also received a 2019 Significant Achievement Award from the Public Technologies Institute for the implementation of a successful email security program utilizing automated email security solutions and practices. In addition, Fairfax County has received a Governor's Technology Award in the category of *IT as Efficiency Driver*, presented at the Commonwealth of Virginia Innovative Technology Symposium (COVITS) in September 2019 for the

Medallion Web Mapping Applications. This compilation of mapping applications provides for the first time, consistent, detailed, sub-county level data for Health and Human Services staff to analyze how environmental conditions impact service demands for specified communities. The County has also been honored by multiple organizations for the recent redesign of its website. Fairfax County is recognized as a perennially high-achieving County which relies on agile development, flexible technology infrastructure and strong governance to align IT strategies with overall County business objectives - and this alignment is critical as the County is challenged with limited resource growth.

Pandemic Response and Impact

In response to COVID-19, DIT has adapted quickly and ably to address rapidly changing requirements. The pandemic's disruption has emphasized the importance of ensuring that all elements of the County's technology structure are current, capable, modernized, secure, and mobile-friendly as resilient, secure, high-performing IT services are increasingly essential to effective government. Working with several partner agencies, DIT has aggressively moved to increase mobile options and improve the ability to conduct work and County business remotely and securely. A key component of this is converting the County's mostly desktop computer system to one that is primarily mobile. In the immediate onset of COVID-19, the County moved swiftly to procure an additional 2,900 laptops and 1,000 mobile phones for immediate deployment, as well as providing additional support for enhanced licenses. Additional investments in future budget processes are anticipated to build on this foundation and keep the County moving forward.

Organizational Chart



^{*}A portion of staffing and operating support for the Infrastructure Services area is found in Fund 60030, Technology Infrastructure Services, in Volume 2.

Budget and Staff Resources

Category	FY 2019 I ategory Actual <i>F</i>		FY 2020 Revised	FY 2021 Advertised	FY 2021 Adopted
FUNDING		·			
Expenditures:					
Personnel Services	\$23,675,136	\$25,975,891	\$25,510,037	\$27,199,814	\$26,160,037
Operating Expenses	11,730,708	10,856,389	11,819,810	11,705,659	11,338,409
Total Expenditures	\$35,405,844	\$36,832,280	\$37,329,847	\$38,905,473	\$37,498,446
Income:					
Map Sales and					
Miscellaneous Revenue	\$5,832	\$16,287	\$11,115	\$11,115	\$11,115
Total Income	\$5,832	\$16,287	\$11,115	\$11,115	\$11,115
NET COST TO THE					
COUNTY	\$35,400,012	\$36,815,993	\$37,318,732	\$38,894,358	\$37,487,331
AUTHORIZED POSITIONS/FU	LL-TIME EQUIVA	LENT (FTE)			
Regular	251 / 251	251 / 251	260 / 260	263 / 263	260 / 260

FY 2021 Funding Adjustments

The following funding adjustments from the <u>FY 2020 Adopted Budget Plan</u> are necessary to support the FY 2021 program. Included are all adjustments recommended by the County Executive that were approved by the Board of Supervisors, as well as any additional Board of Supervisors' actions, as approved in the adoption of the Budget on May 12, 2020.

Operating System Requirements

\$477,020

An increase of \$477,020 in Operating Expenses is due to increased baseline operating system requirements resulting from a recent system process audit, that are being charged through this agency.

Body-Worn Camera Program

\$189,146

An increase of \$189,146 is required to provide ongoing baseline funding for 2/2.0 FTE positions that were added as part of the *FY 2019 Carryover Review*. It should be noted an increase of \$93,031 in Fringe Benefits funding is included in Agency 89, Employee Benefits, for a total cost of \$282,177 in FY 2021. For further information on Fringe Benefits, please refer to the Agency 89, Employee Benefits, narrative in the Nondepartmental program area section of Volume 1. Additional funding, originally included in the <u>FY 2021 Advertised Budget Plan</u>, to support the Body-Worn Camera program is deferred as a result of the COVID-19 pandemic.

It should be noted that, as part of the June 9 Board of Supervisors meeting, the Board directed staff to identify options to fund Phase 2 of the Body-Worn Camera program, as well as develop a timeline and implementation plan for all future phases, and report back to the Board by memo no later than June 30, 2020. This information is to include an option for Board consideration that would fully fund implementation during FY 2021. It is anticipated that the Board of Supervisors will consider funding options as part of the *FY 2020 Carryover Review*.

Changes to FY 2020 Adopted Budget Plan

The following funding adjustments reflect all approved changes in the FY 2020 Revised Budget Plan since passage of the <u>FY 2020 Adopted Budget Plan</u>. Included are all adjustments made as part of the FY 2019 Carryover Review, FY 2020 Third Quarter Review, and all other approved changes through April 30, 2020.

Carryover Adjustments

\$497,567

As part of the *FY 2019 Carryover Review*, the Board of Supervisors approved encumbered funding of \$308,421 in Operating Expenses primarily associated with computer and contract services. The remaining \$189,146 reflects the non-recurring funding of \$184,146 in Personnel Services and \$5,000 in Operating Expenses and 2/2.0 FTE positions to support the workload resulting from the implementation of a Body-Worn Camera Program.

Reclassification of Non-Merit Benefits Eligible Positions to Merit

\$0

As part of an ongoing Board-directed review of the County's use of limited-term staffing, 8/8.0 FTE new merit positions are included due to the reclassification of non-merit benefits-eligible positions to merit status. These are part of a total of 235 positions that were identified in the *FY 2019 Carryover Review* across all County agencies as candidates for possible conversion based on the tasked performed by each position and the hours worked by incumbents. No additional funding has been included as the work hours of these positions are expected to remain largely unchanged.

Workload Requirements

\$0

In order to address workload requirements, the County Executive redirected 1/1.0 FTE vacant Programmer Analyst II position from Agency 70, DIT, to Agency 92, Fire and Rescue Department.

Cost Centers

The General Fund supports three Department of Information Technology cost centers; IT Strategic Programs and Management, Application Services, and Infrastructure Services.

IT Strategic Programs and Management

The IT Strategic Programs and Management cost center provides for policy, administrative and programmatic management, compliance functions supporting the entire DIT department, and strategic innovation centers for certain specialized IT programs and initiatives.

	FY 2019	FY 2020	FY 2020	FY 2021	FY 2021			
Category	Actual	Adopted	Revised	Advertised	Adopted			
EXPENDITURES								
Total Expenditures	\$15,718,200	\$16,985,402	\$17,326,966	\$17,659,712	\$17,174,548			
AUTHORIZED POSITIONS/FULL-TIME EQUIVALENT (FTE)								
Regular	59 / 59	59 / 59	65 / 65	67 / 67	65 / 65			

Application Services

The Application Services cost center provides for the design, implementation and maintenance of information systems for all County business areas, including the enterprise-wide financial and GIS platforms integrated to many agencies' business systems and strategic and tactical operations.

Category	FY 2019 Actual	FY 2020 Adopted	FY 2020 Revised	FY 2021 Advertised	FY 2021 Adopted		
EXPENDITURES							
Total Expenditures	\$11,515,190	\$7,137,315	\$7,236,937	\$7,355,285	\$7,137,315		
AUTHORIZED POSITIONS/FULL-TIME EQUIVALENT (FTE)							
Regular	113 / 113	113 / 113	112 / 112	113 / 113	112 / 112		

Infrastructure Services

The Infrastructure Services cost center functions include management of the County's local area network (LAN) environments, server and data storage platforms, database administration, telephony services and end-user desk-top support. This cost center also provides operational and contingency services for the McConnell Public Safety and Transportation Operations Center (MPSTOC).

Category	FY 2019 Actual	FY 2020 Adopted	FY 2020 Revised	FY 2021 Advertised	FY 2021 Adopted			
EXPENDITURES								
Total Expenditures	\$8,172,454	\$12,709,563	\$12,765,944	\$13,890,476	\$13,186,583			
AUTHORIZED POSITIONS/FULL-TIME EQUIVALENT (FTE)								
Regular	79 / 79	79 / 79	83 / 83	83 / 83	83 / 83			

Position Detail

The <u>FY 2021 Adopted Budget Plan</u> includes the following positions:

	ATEGIC PROGRAMS AND MANAGEMENT – 65 F	ositions	
Policy,	Planning & Admin		
1	Director of Information Technology	1	Human Resources Generalist III
3	Deputy Directors	1	Human Resources Generalist I
2	IT Program Directors I	1	Programmer Analyst III
1	Business Analyst IV	1	Management Analyst IV
2	Business Analysts II	1	Management Analyst I
2	Business Analysts I	2	Administrative Assistants V
2	Financial Specialists III	4	Administrative Assistants IV
3	Financial Specialists II	1	Administrative Assistant II
1	Financial Specialist I		
E-Gov.	& Enterprise Architecture		
1	IT Program Director I	1	IT Systems Architect
1	IT Program Manager I	1	Internet/Intranet Architect IV
1	Data Analyst III	5	Internet/Intranet Architects III
1	Data Analyst II	1	Internet/Intranet Architect II
IT Secu	rity Office		
1	IT Security Program Director	3	Info. Security Analysts II
1	IT Program Director III	1	Info. Security Analyst I
2	Info. Security Analysts IV	1	Network/Telecom Analyst IV
2	Info. Security Analysts III		

1	oom Technology		
1	Courts IT Program Director	1	Programmer Analyst IV
2	Network/Telecom Analysts IV	2	Programmer Analysts III
1	Network/Telecom Analyst III	1	IT Systems Architect
2		1	Info. Tech. Technician I
2	Network/Telecom Analysts I		
	CATION SERVICES – 112 Positions		
	ss Systems		
2	Info Tech. Program Directors I	4	Programmer Analysts II
3	Info. Tech. Program Managers II	12	IT Systems Architects
2	Info. Tech. Program Managers I	1	Business Analyst IV
5	Programmer Analysts IV	1	Business Analyst II
17	Programmer Analysts III	1	Internet/Intranet Architect III
	phic Information Systems		
1	Info. Tech. Program Director I	4	Geo. Info. Spatial Analysts II
1	Info. Tech. Program Manager II	4	Geo. Info. Spatial Analysts I
7		3	IT Systems Architects
Enterpr	ise Systems		
1		7	Programmer Analysts IV
2	Info. Tech. Program Directors I	22	Programmer Analysts III
1	Info. Tech. Program Manager II	2	Programmer Analysts II
1	Business Analyst III	8	IT Systems Architects
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Performance Measurement Results

A key program within the IT Strategic Programs and Management cost center is IT/Cyber Security. All County IT systems are connected and accessed through the enterprise-wide network, with strict policies and controls to safeguard County IT systems and data from threats and unauthorized access. As with all major organizations, the County IT systems receive millions of security threats per week. Fairfax County's Cyber Security profile and technical architecture has protections against unauthorized intrusions in the technology infrastructure, and threats reported on a daily basis have increased as new technology is better able to identify and isolate these threats. Of note, the County enterprise network experienced 99.99 percent uptime, a sustained achievement due to the resilient network design and cyber security program.

The landscape of cyber security is dramatically changing with growth in the consumer markets for mobile devices such as smart phones and tablets, to network-enabled industrial control systems (HVAC, Physical Access Control, lighting systems, supervisory control and data acquisition systems etc.) referred to as the "Internet-of-Things." "Clouds" present more complex risk and challenges as these solutions are adopted. As product development transforms the enterprise-enabled landscape, the Information Security Office (ISO) will need to adapt to evolving threats targeting untraditional endpoints and data repositories. ISO continues to experience increases in malicious code detection and a continued increase in the collection of electronic records related to agency personnel investigations, legal requests, and Freedom of Information Act (FOIA) requests. DIT successfully identified and stopped all material security threats during FY 2019.

The County is a leader in the use of GIS technologies with the most gigabytes in the GIS database among large jurisdictions and other Virginia localities according to International City/County Management Association (ICMA) benchmarks. Service encounters consist of counter sales, internal work requests, GIS projects, zoning cases, right of way projects, parcel related work, server connections, and spatial database usage. Service encounters decreased in FY 2019 and are projected to continue this trend due to changes in the software that reduce the number of database transactions necessary to perform a function.

Requests for services at the IT Service Desk increased in FY 2019 due to the Enterprise Service Manager Platform (ESMP) rollout and the transition to Office 365. This trend is anticipated to continue in FY 2021 with the implementation of additional IT Service desk system-workflow services. Strengthened enterprise-wide management and image control processes have allowed resolution of end-user desktop requests more quickly; however, overall customer satisfaction was impacted in FY 2019 due to staffing issues. Efforts in FY 2020 and FY 2021 will focus on enhanced remote resolution and IT Service desk system-workflow services to streamline routine processes and help improve service quality.

Indicator	FY 2017 Actual	FY 2018 Actual	FY 2019 Estimate/Actual	FY 2020 Estimate	FY 2021 Estimate
Management and Administration					
Percent risk of unauthorized network perimeter access including network security breaches and inbound network worm attacks	2.00%	2.00%	2.00%/2.00%	2.00%	2.00%
Application Services					
Percent change in GIS service encounters	(0.40%)	(5.28%)	5.00%/ (14.95%)	(9.90%)	(5.00%)
Percent of revenue collected on applicable E-Government platforms	19.00%	10.00%	10.00%/10.00%	10.00%	10.00%
Infrastructure Services					
Business days to fulfill service requests from initial call to completion of request for: Non-critical requests	4	5	4/5	5	5
Business days to fulfill service requests from initial call to completion of request for: Critical requests	2	2	2/2	2	2
Business days to fulfill service requests from initial call to completion of request for: Emergency requests	1	1	1/1	1	1
Infrastructure Services					
Percent of calls closed within 72 hours	81%	80%	82%/70%	75%	80%
Percent of first-contact problem resolution	93%	92%	94%/97%	97%	97%

A complete list of performance measures can be viewed at https://www.fairfaxcounty.gov/budget/fy-2021-adopted-performance-measures-pm