

**BUDGET NOTES** 

# Information & Technology

# What We Do

The Information & Technology (I&T) division provides city-wide leadership in modernizing City services through the strategic investment, development and management of the City's Information Technology (IT) systems including:

- Driving City business transformation and innovation to improve the service experience associated with the delivery
  of City programs and services to residents, businesses and visitors including critical business systems delivery and
  support.
- Improving the City's business processes and systems with a focus on opportunities to streamline, integrate and deliver business value to clients and employee productivity solutions that drive service excellence.
- Ensuring a secure, reliable and high performing technology environment that is modernized and well-positioned to respond to growing business needs and resident demands.

I&T Division has oversight for about 66% of the overall City IT budget (Operating and Capital) and delivers services in partnership with technology teams across City Divisions and select Agencies. Our services include:

- Business I&T Solutions
- Computer & Communications Technology Infrastructure
- Enterprise I&T Planning & Client Services

# Why We Do It

Changes are driving public expectation for services anytime, anywhere, on any channel and any device. Opportunities exist for the City to use data to improve efficiency and effectiveness across a broad range of government programs and a need to modernize systems to improve cost effectiveness, service performance and usability. With tremendous expectations on City government, the City is working to improve how it deploys new capabilities and solutions.

# **Our Experience & Success**

- Improved customer experience by increasing online self-service while reducing costs
- Drove government transparency with 292 datasets published in Open Data and launch of new Open Data Portal
- Transformed the digital employee work experience by providing capabilities such as 'access anywhere' and Wi-Fi at City buildings
- Delivered several City modernization initiatives
- Administrative Penalty System (APS) to transform parking dispute processing
- 'Making it Better" Campaign to improve Recreation Program Registration experience
- My Child Care Account making it simpler for clients using childcare through online access replacing manual processes

# **Key Challenges**

- Ability to sustain business solutions due to growing demand for IT
- Growing Cyber Security complexity and threat landscape environment with emphasis on digital government
- Need to ensure an agile and accelerated IT delivery model
- Organizational capacity, business readiness and change management to support City-wide transformation capacity
- Sustainability of the City-wide IT reserve for IT lifecycle asset management currently only positioned to sustain 85% of City-wide requirements
- Ability to realize City-wide benefits planned for IT capital projects

# **Priority Actions**

- Focus on integrated Service Delivery and Digital Enablement
- Enhancing IT Cyber-Security Program to respond to security demands
- Ensuring effective Program and Project delivery for the City's 130+ IT projects and modernization initiatives
- Optimizing the IT Service and Operating model across the City to realize efficiencies and improve service effectiveness
- Delivering support for the City's 29,000 users, 850+ applications and maintaining the City's technology infrastructure
- Focussing on the development of a Smart City Strategic Framework and Plan
- Advancing outcomes associated with modernization, housing, mobility and long-term fiscal sustainability

# **Budget At A Glance**

STAFF RECOMMENDED OPERATING BUDGET \$Million 2019 2020 2021 Gross Expenditures \$133.7 \$136.3 \$137.7 Revenues \$54.6 \$53.5 \$53.7 Net Expenditures \$79.1 \$82.8 \$84.0

STAFF RECOMMENDED 10-YEAR CAPITAL PLAN \$Million 2019 2020-2028 Total

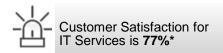
Gross Expenditures \$67.2 \$361.5 \$428.6

Debt \$42.8 \$165.2 \$208.0

Note: Excluding 2018 carry forward funding to 2019

# **Our Key Service Levels**

Approved Positions 860.0 857.0





857.0

Customer Satisfaction for **Business Applications is** 73%\*



Customer Satisfaction for IT Service Desk is 81%\*



City's Computing Infrastructure Service is available 99.99% of the



City's Telecommunication Network is available 99.96% of the time

Source of images: www.icons8.com

\* New baseline levels are consistent with Municipal comparators

# **Key Service Deliverables**

Support 850+ business solutions & resolved +33,000 (-4000 from 2017) business application service requests Support 29,000+ users and 187,000 (+1400 from 2017) service desk calls, emails and self-serve requests

Support 24,200 (+ 100 from 2017) desktops & notebook computers and 2,700+ (-1300 from 2017) multi-function printers

Support 136,000+ (-17,000 from 2017) phones, wireless devices, switches, routers, wireless access points & ports Support **3** data centres **2,400** +(-300 from **2017**) servers 7x24x365

Support 26 Million+ (+10 Million from 2017) visits to the City Website

### Who We Serve

### **Business IT Solutions Computer & Communications Enterprise IT Planning & Client Technology Infrastructure** Services . City & Agency Staff . City & Agency Staff · City & Agency Staff

### Beneficiaries

- Businesses
- Residents
- Visitors

# Beneficiaries

- Businesses
- Residents
- Visitors

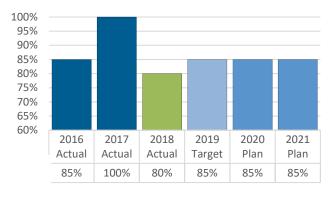
### Beneficiaries

- Businesses
- Residents
- Visitors

# **How Well We Are Doing**

### **Performance Measures**

# % Projects Planned to Complete vs. Actual Completed



### **Behind the Numbers**

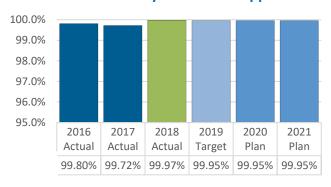
- This measure helps gauge performance in completing projects as well as capacity to take on new projects
- As the ratio of plan-to-complete projects increases, benefits are realized, and resources are able to take new project demands
- Year-over-year project completion rates have been improving and 2018 has been impacted because of a significant number of change requests linked to legislated changes and a municipal election year
- Aligned with Industry average as per Gartner Research: 2018 – 62%

# Project Timelines Met on schedule Vs. Planned



- This measure reflects projects that have progressed as planned (i.e. their schedules are seeing less than 20% variance from their baseline plan)
- This measure demonstrated effective project planning/governance which is realizing more planned commitments
- Aligned with industry average as per Gartner Research: 2018 – 20% schedule variance

# % Availability of Business Applications



- This measures the availability of all business applications
- The availability of business applications has improved in 2018 as a result of better planning and fewer incidents

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# RECOMMENDATIONS

# 2019 STAFF RECOMMENDED OPERATING BUDGET

2019 - 2028 STAFF RECOMMENDED CAPITAL BUDGET & PLAN

# SSUES FOR DISCUSSION

# APPENDICES

- 1. 2019 Organization Chart
- 2. 2019 Operating Budget by Service
- 3. 2019 Service Levels
- 4. Summary of 2019 Recommended Service Changes
- 5. Summary of 2019 Recommended New & EnhancedService Priorities
- 6. 2019 User Fee Rate Changes
- 7. 2019 Capital Budget; 2020 2028 Capital Plan
- 8. 2019 Cash Flow & Future Year Commitments
- 9. 2019 Capital Budget with Financing Detail
- 10. Reserve and Reserve Fund Review



# **RECOMMENDATIONS**

# RECOMMENDATIONS

The City Manager and Chief Financial Officer & Treasurer recommend that:

1. City Council approve the 2019 Staff Recommended Operating Budget for Information & Technology of \$133.709 million gross, \$79.140 million net for the following services:

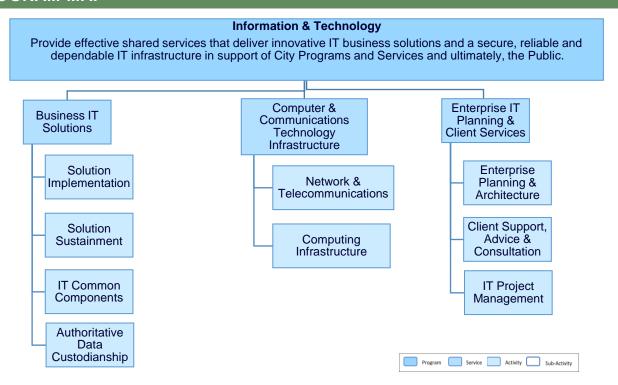
Service:	Gross (\$000s)	Net (\$000s)
Business I&T Solutions	60,415.0	24,227.3
Computer & Communications Technology Infrastructure	45,308.7	31,833.5
Enterprise I&T Planning & Client Services	27,984.8	23,079.2
Total Program Budget	133,708.5	79,140.0

- 2. City Council approve the 2019 service levels for Information & Technology as outlined in Appendix 3 of this report, and associated staff complement of 860.0 positions, comprising of 218.0 capital positions and 642.0 operating positions.
- 3. City Council direct the information contained in Confidential Attachment, remain confidential until the outcome of City Council's decision has been communicated to Unions and affected staff.
- 4. City Council approve the 2019 Staff Recommended Capital Budget for Information & Technology with a total project cost of \$54.814 million, and 2019 cash flow of \$91.280 million and future year commitments of \$55.139 million comprised of the following:
  - a. New Cash Flow Funds for:
    - 1. 39 new / change in scope sub-projects with a 2019 total project cost of \$54.814 million that requires cash flow of \$37.129 million in 2019 and future year cash flow commitments of \$10.413 million for 2020; \$3.006 million for 2021; \$1.897 million for 2022; \$1.510 million for 2023; \$1.085 million for 2024; and \$0.226 million reduction for 2025;
    - 2. 46 previously approved sub-projects with a 2019 cash flow of \$25.861 million; and future year cash flow commitments of \$18.476 million for 2020; \$16.010 million for 2021; \$2.062 million for 2022; \$0.340 million for 2023; \$0.340 million for 2024; and \$0.226 million for 2025;
    - 3. 15 previously approved sub-projects with carry forward funding from 2017 and prior years requiring 2019 cash flow of \$4.182 million and 2021 cash flow of \$1.028 that requires Council to reaffirm its commitment; and
  - b. 2018 approved cash flow for 46 previously approved sub-projects with carry forward funding from 2018 into 2019 totalling \$24.108 million.
- 5. City Council approve the 2020 2028 Staff Recommended Capital Plan for Information & Technology totalling \$305.304 million in project estimates, comprised of \$34.805 million for 2020; \$18.552 million for 2021; \$28.862 million for 2022; \$36.469 million for 2023; \$32.714 million for 2024; \$45.983 million for 2025; \$35.745 million for 2026; \$35.098 million for 2027, and \$39.476 million for 2028.
- 6. City Council consider the operating costs of \$0.221 million net in 2019; \$0.112 million net in 2020; and \$0.034 million net in 2021 resulting from the approval of the 2019 Capital Budget for inclusion in the 2019 and future year operating budgets.

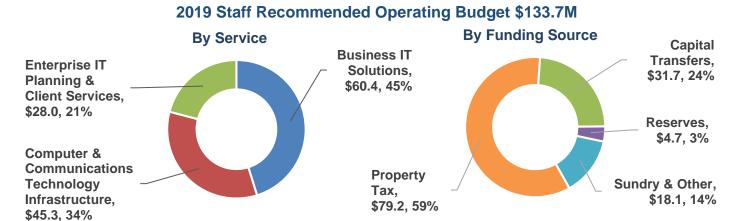


# 2019 STAFF RECOMMENDED OPERATING BUDGET

# **PROGRAM MAP**



# 2019 OPERATING BUDGET HIGHLIGHTS



- 3.0% Budget increase over the 2018 Approved Net Operating Budget to meet additional service demands and fulfil prior year Council approved financial commitments.
- **\$2.135M** Efficiency savings in rationalization and optimization of I&T assets and costs. This includes \$1.3M to be achieved through synergies and savings from consolidating city-wide information technologies.
- \$0.539M New/enhanced funding to improve cyber security measures within the City of Toronto.
- 2020/2021 Increases primarily for known inflationary adjustments for salaries, benefits and contracts, operating impacts from capital and phased funding for capital positions approved by Council in 2013.

# 2019 OPERATING BUDGET OVERVIEW

Table 1: 2019 Staff Recommended Operating Budget and Plan by Service

				<u> </u>			•			
	201	8		2019				Incremental Change		
(In \$000s)	Budget	Projected Acutal*	Base	New / Enhanced	Total Staff Recommended Budget	Changes		2020 Plan	2021 Plan	
By Service	\$	\$	\$	\$	\$	\$	%	\$	\$	
<b>Business IT Solutions</b>	1									
Gross Expenditures	59,258.4		60,415.0		60,415.0	1,156.6	2.0%	1,125.5	680.7	
Revenue	33,793.8		36,187.7		36,187.7	2,393.9	7.1%	(8.4)	251.6	
Net Expenditures	25,464.6		24,227.3		24,227.3	(1,237.3)	(4.9%)	1,133.9	429.1	
Computer & Communi	cations Ted	hnology I	nfrastructu	е						
Gross Expenditures	44,598.9		45,308.7		45,308.7	709.8	1.6%	595.7	189.0	
Revenue	13,708.4		13,475.2		13,475.2	(233.2)	(1.7%)	175.5	(24.5)	
Net Expenditures	30,890.6		31,833.5		31,833.5	942.9	3.1%	420.2	213.5	
Enterprise IT Planning	& Client S	ervices								
Gross Expenditures	27,091.5		27,445.3	539.5	27,984.8	893.3	3.3%	896.0	471.7	
Revenue	6,621.2		4,905.6		4,905.6	(1,715.6)	(25.9%)	(1,256.9)	(12.1)	
Net Expenditures	20,470.2		22,539.6	539.5	23,079.2	2,608.9	12.7%	2,153.0	483.7	
Total								1		
Gross Expenditures	130,948.8		133,169.0	539.5	133,708.5	2,759.7	2.1%	2,617.3	1,341.4	
Revenue	54,123.4		54,568.5		54,568.5	445.2	0.8%	(1,089.8)	215.0	
Total Net Expenditures	76,825.4		78,600.4	539.5	79,140.0	2,314.5	3.0%	3,707.1	1,126.4	
Approved Positions	849.0	0.0	857.0	3.0	860.0	11.0	1.3%	(3.0)	(0.0)	

<sup>\*</sup> Year-End Projection Based on Q3 2018 Variance Report

# Base Changes (\$1.775M Net)

- Third phase of tax based funding for positions approved by Council in 2013 to support capital work city-wide
- Salary & benefit increases
- Operating Impacts for sustainment of completed technology applications and systems
- Growth in hardware, software licenses and maintenance costs driven by an increase in users, technology systems and infrastructure
- Above pressures partially offset by service efficiency savings through synergies and savings from consolidating city-wide information technologies

# New/Enhanced Service Priorities

(\$0.539M Gross and Net)

- \$0.309 million to advance cyber security awareness training for City staff
- \$0.230 million for 2 positions to assist with the increasing growth into more complex service delivery models with cloud services and adopting new technologies that involve the collection of personally identifiable information (PII)

# **Future Year Plan**

- Inflationary increases in salaries and benefits.
- Final (fourth) phase of tax based funding for positions originally approved by Council in 2013 to support capital work citywide

# **EQUITY IMPACTS**

Improving access to information for persons with disabilities: Information & Technology's Preliminary Operating Budget includes \$32K savings by decommissioning the City's legacy Web Content Management (WCM) system and replacing it with a free, open-source based WCM system that will be in compliance with the Accessibility for Ontarians with Disabilities Act (AODA). This new system will improve online access for persons with disabilities and the general public so that they can better connect with City information, services and events.

# 2019 Staff Recommended Operating Budget Changes by Service

The 2019 Staff Recommended Operating Budget for Information & Technology is \$2.315 million net or 3.0% higher than the 2018 Council Approved Operating Budget. Table 2 below summarizes the key cost drivers to maintain current service levels, recommended service changes to achieve budget target as well as recommended new and enhanced service priorities to meet outcomes.

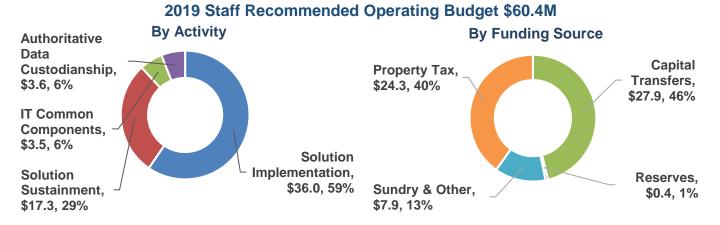
Table 2: 2019 Staff Recommended Operating Budget Changes by Service

	Business IT Solutions	Computer & Communications Technology Infrastructure	Enterprise IT Planning & Client Services	Total	
(In \$000s)	\$	\$	\$	\$	Positions
2018 Council Approved Operating Budget (Net)	25,464.6	30,890.6	20,470.2	76,825.4	849.0
Base Expenditure Changes			7.5		
Prior Year Impacts					
Realignment of operational positions between services	(190.0)	(30.5)	288.0	67.5	
Phase 3 Funding of Positions Approved in 2013	346.0		PARTICIPAL DE LA CONTRACTOR DE LA CONTRA	1,775.0	
Reversal Non Union Cost of Living Allowance	(104.4)	.,		(402.2)	
Operating Impacts of Capital	(104.4)	(107.1)	(100.7)	(102.2)	
Licensing and Maintenance of Completed Capital Projects	108.5	205.9	(93.2)	221.2	11.0
Economic Factors	100.5	200.0	(00.2)	221.2	11.0
Inflationary Increase in Contract Costs for Managed Services	4.3	139.3	2.1	145.8	
Salaries & Benefits	7.0	100.0	2.1	140.0	
Inflationary Increases in Salaries & Benefits	1,006.3	(3.7)	1,897.5	2,900.1	
Other Base Expenditure Changes	1,000.0	(0.7)	1,007.0	2,000.1	
Growth in City's Hardware & Software Footprint and Service Demands	794.9	907.2	(442.8)	1,259.3	(3.0)
Support and Maintenance Costs Recovered from Divisions	(1,431.7)			(132.2)	(0.0)
Adjust Approved Gapping from 5.5% to 6.4% to Meet Target	(213.2)	(227.8)	(254.3)	(695.3)	
Sub-Total Base Expenditure Changes	320.7	1,278.5		5,139.3	8.0
Base Revenue Changes					
Inflationary Increase to User Fees	80.0			80.0	
Recovery of Salary Cost for Capital Positions	(1,163.7)		(146.0)	(1,309.7)	
Sub-Total Base Revenue Changes	(1,083.7)		(146.0)	(1,229.7)	
Service Changes	***				
Base Expenditure Changes					
Physical Server Consolidation using Virtual Servers		(36.9)		(36.9)	
Optimize & Rationalize App Development in City Divisions			(1,324.7)	(1,324.7)	
Service Efficiencies			13 1/- 2		
Decommissioning Older Technology	(474.3)	(298.6)		(773.0)	
Sub-Total Service Changes <sup>1</sup>	(474.3)	(335.5)	(1,324.7)	(2,134.6)	
Total Base Changes	(1,237.3)	942.9	2,069.4	1,775.0	8.0
New & Enhanced Services					
Enhanced Service Priorities					
Cyber Security Awareness (AG)			309.2	309.2	1.0
Risk Management Cyber Security & Compliance			230.3	230.3	2.0
Sub-Total New & Enhanced Services <sup>1</sup>			539.5	539.5	3.0

### Note:

For additional information, refer to Appendix 4 (page <u>53</u>) for a more detailed listing and descriptions of the 2019 Staff Recommended Service Changes and Appendix 5 (page <u>54</u>) for the 2019 Staff Recommended New and Enhanced Service Priorities, respectively.

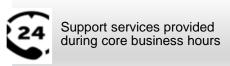
**Business I&T Solutions** delivers Information Technology Solutions to enable the business capabilities required by the City to deliver services through solution and component acquisition, configuration, development, sustainment and implementation of applications and solutions, as well as ongoing client support.



Refer to Appendix 2 (page 46) for the 2019 Staff Recommended Operating Budget by Service.

# **Key Service Levels**







management targets or consultation per agreed work

Source of images: www.icons8.com

Actual

99.80%

Actual

99.72%

Refer to Appendix 3 (page 48) for a complete list of the 2019 Staff Recommended Service Levels for this Service.

# Service Performance Measures

### **Available** 100.0% 99.0% 98.0% 97.0% 96.0% 95.0% 2016 2017 2018 2019 2020 2021

% Time Business Applications are

Availability is expected to remain constant at the 99.95% levels due to pro-active planning, testing, and sustainment activities.

Actual

99.97%

Target

99.95%

Plan

99.95%

Plan

99.95%

# **Customer Satisfaction with Business IT Solutions Performance**

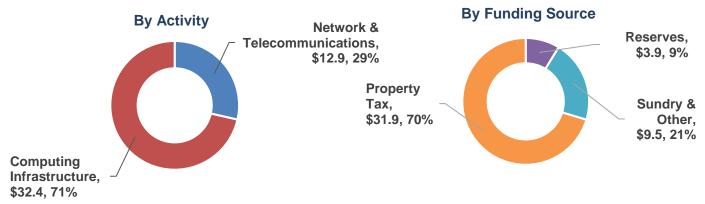


Client satisfaction with IT Solutions is forecasted to remain at a minimum of 80% over the next 3 years with an emphasis on customer service improvements, enhanced IT technology, greater automation of manual processes and more channel choices/user friendly applications for clients. 2016 and 2017 are not comparable based on new 2018 survey scoring method.

# Computer & Communications Technology Infrastructure manages the City's

computing infrastructure, including: desktop and mobile devices, printers and other peripheral devices, data centre services, storage equipment, application and database development platforms, security products and services, and voice and data communications networks..

# 2019 Staff Recommended Operating Budget \$45.3M



Refer to Appendix 2 (page 46) for the 2019 Staff Recommended Operating Budget by Service.

# **Key Service Levels**



Wired Network is **99.99%** available between 9:00am – 5:00pm on business days.



Enterprise Printing & Peripherals is **99%** available 24/7/365.

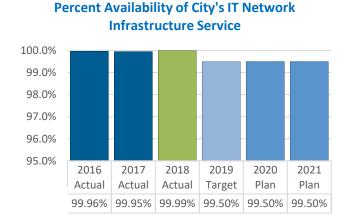


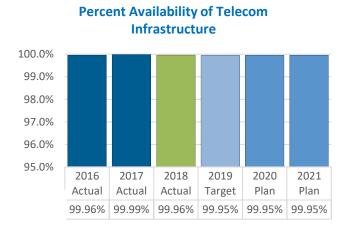
Server Computing Hardware is **99.50%** available 24/7/365

Source of images: www.icons8.com

Refer to Appendix 3 (page 48) for a complete list of the 2019 Staff Recommended Service Levels for this Service.

# **Service Performance Measures**

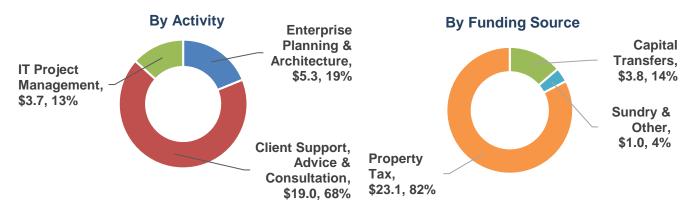




• Service level performance remains steady and within acceptable variance. Availability is expected to remain constant levels or better due to pro-active planning, testing, and sustainment activities.

**Enterprise I&T Planning & Client Services** provides services to support enterprise strategic planning, enterprise architecture blueprint, portfolio planning and optimization and lifecycle management of I&T projects including client relationship management such as client consultation and advice, service desk and I&T training and education..

# 2019 Staff Recommended Operating Budget \$28.0M



Refer to Appendix 2 (page 46) for the 2019 Staff Recommended Operating Budget by Service.

# **Key Service Levels**



Service Desk Response Target: 100% of E-Mails Responded within 48 hours



Service Desk Response Target: **100%** of Voice Mails Responded within 4 hours



Service Desk Response
Target: **80%** of Phone Calls
Answered within 1 minute

Source of images: www.icons8.com

Refer to Appendix 3 (page 48) for a complete list of the 2019 Staff Recommended Service Levels for this Service.

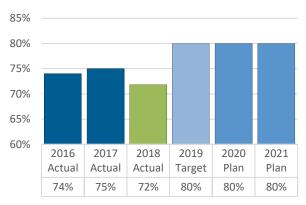
## **Service Performance Measures**

# Client Satisfaction with IT Service Desk



 Client Satisfaction is expected to remain at 80% level as the increased use of technology is addressed with pro-active planning and training of staff. 2016 and 2017 are not comparable based on new 2018 survey scoring method.

# Percentage of Calls Answered in 60 Seconds



 The percentage of calls answered in 60 seconds by Service Desk has been steady since 2016 as service request volumes have increased.

# 2018 OPERATING PERFORMANCE

# 2018 Service Performance

# Key Service Accomplishments:

- Implemented numerous City website www.toronto.ca enhancements for over 26+ million visitors annually, improving public access to City services using modern, dynamic, and interactive web and mapping technologies.
- Established an Administrative Penalty System (APS) for parking by-law violations that enable the public to request dispute resolutions through the web; specifically, vehicle owners can now request for an online or inperson resolution process. The online option minimizes physical efforts for the vehicle owners, and the City avoids overcrowding in the intake centres.
- Supported processing of 700,000+ citizen recreation program registrations for 70,000+ courses with many
  customer experience improvements online which contributed to a significantly faster registration process for
  residents before and during priority registration periods.
- Implemented My Child Care Account which reduces barriers for families through self-serve functionality while
  improving the customer experience, replacing inefficient paper-intensive and in-person processes, with over
  8000 client accounts created and 160,000 letters eliminated.
- Implemented Vision Zero online services to provide the public with useful road safety information using modern, dynamic, and interactive maps to support the City's mission to reduce traffic-related deaths and injuries to zero.
- Supported the processing of online tax bills for over 1.6 million clients which account for over \$6.9+ billion in City revenue generation.
- Supported the review of over 50,000 building permits, the completion of over 170,000 building inspections, and 5,000+ annual building investigations accounting for over \$60 million in revenue generation and \$1.1 million per year savings for Toronto building electronic services.
- Obtained Council-approval on the 5-year Open Data Master Plan developed in conjunction with the public
  which guides the City in leveraging open data to improve service delivery, address civic issues and increase
  data sharing between City divisions and the public.
- Supported of processing of over 95,000+ business licenses and permits and 80,000+ dog and cat licenses accounting for \$27+ million in revenue generation.
- Supported the Permit Parking Renewal process for 53,000 citizens to renew over 105,000 permits annually, generating over \$9.000 million in revenue; in addition to processing 2.6 million parking tickets accounting to over \$100+ million in City revenue, and 296,000 temporary parking permits accounting for over \$5.500 million in revenue generation.
- Implemented an online Film Office Permitting System ("FilmPal") that enables production companies and the public to submit film permit applications online which helps attract approximately \$1.3 billion of film production investment within the City and establish Toronto as a global film industry leader.
- Implemented a new e-Survey Tool which has allowed City staff to create over 500+ online surveys to gain customer satisfaction insights regarding City service delivery resulting in \$0.020 million of savings per year in subscription fees.
- Addressed over 187,000 services desk items (calls, email and self-serve requests)
- Maintained and Resolved 33,000+ application service requests and 3,000+ changes for more than 600 City applications.
- Managed 3 Data Centres with 24/7/365 to ensure availability of key city applications and infrastructure in support of City Program delivery and services to the public.

# 2018 Financial Performance

Table 3: Budget vs. Actual by Category of Expenditures and Revenues

Category	2017 Actual	2018 Budget	2018 Projected Actual *	2019 Total Staff Recommended Budget	2019 Change from 2018 Approved Budget		
(In \$000s)	\$	\$	\$	\$	\$	%	
Salaries and Benefits	85,450.5	101,843.0	86,486.1	103,524.4	1,681.4	1.7%	
Materials & Supplies	42.0	49.3	56.9	47.3	(2.1)	(4.2%)	
Equipment	1,240.0	831.1	973.4	858.1	27.0	3.2%	
Service and Rent	25,995.4	27,609.6	28,111.0	28,654.1	1,044.4	3.8%	
Contribution To Reserves/Reserve Funds	138.8	138.8	138.8	138.8			
Other Expenditures	0.9	0.4	0.9	0.4			
Inter-Divisional Charges	1,038.3	476.5	894.7	485.4	8.9	1.9%	
Total Gross Expenditures	113,905.9	130,948.8	116,661.8	133,708.5	2,759.7	2.1%	
Inter-Divisional Recoveries	14,326.2	16,218.2	15,588.9	17,581.1	1,362.8	8.4%	
User Fees & Donations	230.7	223.5	140.7	143.5	(80.0)	(35.8%)	
Transfers From Capital	21,310.9	32,264.6	21,227.2	31,733.3	(531.3)	(1.6%)	
Contribution From Reserves/Reserve Funds	2,778.3	4,782.8	3,472.6	4,675.3	(107.5)	(2.2%)	
Sundry and Other Revenues	446.8	634.3	321.2	435.4	(198.9)	(31.4%)	
Total Revenues	39,092.8	54,123.4	40,750.5	54,568.5	445.2	0.8%	
Total Net Expenditures	74,813.1	76,825.4	75,911.3	79,140.0	2,314.5	3.0%	
Approved Positions		849.0		860.0	11.0	1.3%	

<sup>\*</sup> Year-End Projection Based on Q3 2018 Variance Report

Information & Technology is projecting to be under spent by \$0.914 million at year-end, primarily due to operating position vacancies resulting from longer than normal hiring cycles and promotions within the division that do not reduce the level of net vacancies.

For additional information regarding the 2018 Q3 operating variances and year-end projections, please refer to the attached link for the report entitled "Operating Variance Report for the Nine-Month Period Ended September 30, 2018", adopted by City Council at its meeting on December 13, 2018.

http://app.toronto.ca/tmmis/viewAgendaltemHistory.do?item=2019.CC1.7

# Impact of 2018 Operating Variance on the 2019 Staff Recommended Operating Budget

The projected savings in 2018 are primarily non-recurring due to delays in filling vacant positions. Therefore, the 2019 Staff Recommended Operating Budget includes a temporary increase in the budgeted gaping rate from 5.5% to 6.4% to achieve the budget target.



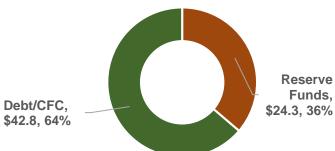
# 2019 – 2028 STAFF RECOMMENDED CAPITAL BUDGET AND PLAN

# 10-YEAR CAPITAL PLAN HIGHLIGHTS

# 2019 Staff Recommended Capital Budget \$67.2M

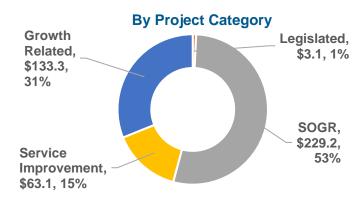
# Growth Related, \$1.9, 3% Service Improvement, \$30.9, 46%

# **By Funding Source**

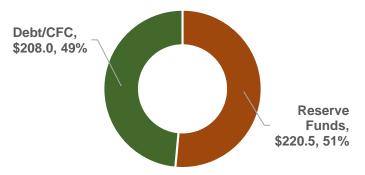


- \$15.223M For lifecycle replacement of corporate IT infrastructure, hardware and software.
- **\$5.334M** To transform specific HR and Payroll business processes that will support the city's complex needs shared between business owners and stakeholders.
- \$4.034M Will assess various recruitment & job application business processes against the current tool in use on behalf of the City's divisions.
- **\$3.534M** Continue funding the *Consolidated Data Centre* project that will eliminate the need to continue leasing space and provision for smaller City divisions to rationalize into a primary, more resilient site.

# 2019-2028 Staff Recommended Capital Budget and Plan \$428.6M



# **By Funding Source**



# 10 YEARS

- **\$229.117M** State of Good Repair to maintain the City's technology infrastructure including the network and application systems.
- \$133.297M Growth projects include expanding technology infrastructure and enterprise solution design and implementation as the City prepares for technological changes.
- \$63.056M Service Improvement projects include implementing I&T solutions that will modernize service delivery within the City.
- **\$3.113M** Legislated projects to ensure compliant with the Accessibility for Ontarians with Disabilities Act (AODA) and increased legislative requirements for workplace investigations into workplace harassment.

YEAR

# 2019 – 2028 CAPITAL BUDGET & PLAN OVERVIEW

100.000 90,000 80,000 70.000 60,000 50,000 Carry Fwd to 2019 40,000 30.000 20.000 10,000 2018 2019 2020 2021 2022 2023 2018 Budget Projected Actual Staff Recommended Budget 2018 Carry Forward (into 2019) Gross Expenditures Debt Program Debt Target 2019 Staff Recommended Capital Budget and 2020 - 2023 Capital Plan 5-Year 2019 -2018 2019 2021 2022 2023 Total 2023 Percent Projected Budget Actual Gross Expenditures by Project Category: Health & Safety Legislated 1.383 1.864 899 335 15 3.113 1.3% SOGR 47,250 22,558 34,383 22,294 18,724 22,909 120,868 50.7% Service Improvement 39,430 30,860 17,450 11,730 2,044 152 62,236 26.1% Growth Related 12,038 777 11,890 8,562 4,237 15,258 51,985 21.8% Total by Project Category 88.841 67,172 61.294 38.596 32.821 38.319 238.202 100.0% Program Debt Target 31,682 14,631 10,446 13,438 16.460 86,657 Financing: Debt 404 42.822 30.025 19.145 15.747 16.860 124.599 52.3% Reserves/Reserve Funds 36.889 23,547 31,269 18,276 17,074 21,459 111,625 46.9% **Development Charges** Provincial/Federal Debt Recoverable Other Revenue 51,547 803 1,175 1,978 0.8% Total Financing 100.0% 88,841 67,172 61,294 38,596 32,821 38,319 238,202 By Status: 2018 Capital Budget & Approved Future Year (FY) Commitments 34,358 6,063 59,330 24.9% 88,841 16,507 2,062 340 Changes to Approved FY Commitments (8.497) 9.947 1,969 3.419 1.4% 3,006 1,897 1,510 53,955 22.7% 2019 New/Change in Scope & FY Commitments 37,129 10,413 2020 - 2023 Capital Plan Estimates 32,405 18,552 28,862 36,469 116,288 48.8% 2-Year Carry Forward for Reapproval 4,182 1,028 5,210 2.2% 1-Year Carry Forward to 2019 24,108 Total Gross Annual Expenditures & Plan 88,841 67,172 61,294 38,596 32,821 38,319 238,202 100.0% Asset Value (\$) at year-end Yearly SOGR Backlog Estimate (not addressed by current plan) Accumulated Backlog Estimate (end of year) Backlog: Percentage of Asset Value (%) Debt Service Costs 1,691 5,104 3,761 2,344 2,104 15,005 Operating Impact on Program Costs 221 112 34 367

Chart 1: 10-Year Capital Plan Overview

New Positions

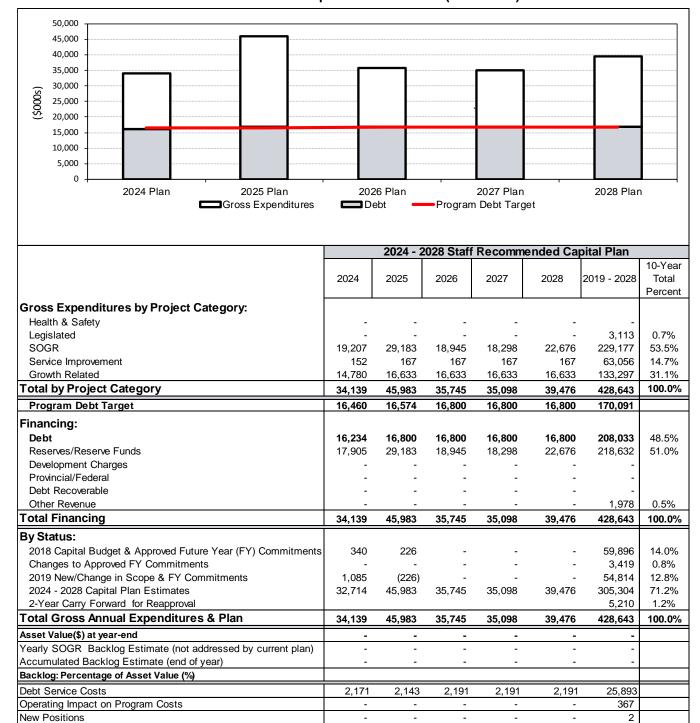


Chart 2: 10-Year Capital Plan Overview (Continued)

# Staff Recommended 10-Year Capital Plan by Project Category

**Table 4: Summary of Capital Projects by Project Category** 

(In \$000s)	Total App'd Cash Flows to Date*	2019 Budget	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan	2026 Plan	2027 Plan	2028 Plan	2019 - 2028 Total	Total Project Cost
Total Expenditures by Category													
Legislated													
AODA Compliance for City Applications	1,383	1,564 300	884 15	320 15	- 45	-	-	-	-	-	-	2,768 345	3,173 345
EDHR - Complaints Management System Sub-Total	1,383	1,864	899	335	15 <b>15</b>	-	-	-	-	-	-	3,113	3,518
State of Good Repair	.,,	.,										5,115	3,010
Business Applications Service Monitoring		120	150	280	-	-	-	-	-	-	-	550	
Business Continuity		140	140	140	-	-	-	-	-	-	-	420	
Capital Portfolio Resource Requirement  Capital Portfolio Resource Requirements		144 2,749	-	-	-		-	-		-	-	144 2,749	
Desktop Hardware Replacement		4,820	4,747	8,732	9,099	12,647	8,020	5,267	9,833	10,205	14,006	87,376	
Desktop Software Replacement		1,367	14,016	363	201	203	1,322	15,408	390	211	213	33,694	
Directory Services - Implementation Disaster Recovery	523 37,960	680 646	706 1,050	924 1,050	1,050	1,050	1,302	-		-	-	2,310 6,148	2,833 37,960
Disaster Recovery Pgm. (Prev. BCP)	37,900	282	1,030	1,030	1,030	1,030	1,302	-	-	-	-	282	716
Domino Decommissioning Strat & Implementation	3,668	226	-	-	-	-	-	-	-	-	-	226	3,668
Enterprise Server Replacement Enterprise Software Replacement		2,309 1,037	2,269 637	2,229 637	2,189 687	2,350 1,087	2,350 1,187	2,350 1,187	2,350 1,187	2,350 1,187	2,350 1,187	23,096 10,020	
Enterprise Storage Replacement		1,000	1,800	950	1,000	950	1,300	1,200	1,000	975	975	11,150	
File Services Migration	455	131	170	549	-	-		-		-	-	850	1,305
Geospatial Tool Enhancements	250	113	82	100	-	-	-	-	-	-	-	295	435
IBMS Review & Transformation Integrated Business Mgmt System - Review and Trans	3,300	454	2,087 379	1,701	-	-	-	-	-	-	-	4,242 379	5,686 379
IT Risk Mgmt Framework	5,189	660	-	-	-	-	-	-	-	-	-	660	5,189
Network Asset Replacement		4,330	3,880	3,050	3,410	3,630	3,330	2,730	3,280	2,910	3,330	33,880	
Network Security Replacement Project Portfolio Management System (SOGR)		360 465	870 900	964 400	488 400	592 400	396	1,041	905	460	615	6,691 2,565	2,565
Quality Assurance Testing Software Upgrade	2,069	75	500	225	200	-	-	-	-	-	-	1,000	2,144
Tems Replacement-Design	150	450	-		-	-	-	-	-	-	-	450	450
Sub-Total Service Improvement	53,564	22,558	34,383	22,294	18,724	22,909	19,207	29,183	18,945	18,298	22,676	229,177	63,330
Application Portfolio Tools & Rationalization	1,387			118								118	1,387
Artificial Intelligence (AI) for SSHA and TPH	1,367	500	2,500	- 110	-	-	-	-	-	-	-	3,000	3,000
Business Sys Improvements - ECS Phase 2	300	230	-	-	-	-	-	-	-	-	-	230	455
CloudBasedHumanResourcesInformationSystem (CHRIS)		5,334	562	826	700	-	-	-	-	-	-	5,896 2,990	5,896
Corporate Geospatial Strategy Roadmap Implementati ECS Cloud Deployment-Construction Project and DMS		309 568	1,125 785	2,151	730 1,164	-	-	-	-	-	-	2,990 4,668	2,990 4,668
Electronic Service Delivery Portal-Bldg Permits	3,708	690	-	-	-	-	-	-	-	-	-	690	3,708
Employee Performance Management (e		750	546	762	-	-	-	-	-	-	-	1,308 750	1,308
Ent Doc & Record Mgmt Solution (Ed-Change In Scope Ent Portfolio & Project Mgmt Upgrade 2021		750	_	-	150	152	152	167	167	167	167	1,122	750
Enterprise Business Intelligence Implementation	1,698	1,715	1,585	-	-	-	-	-	-	-	-	3,300	3,387
Enterprise Collaboration Foundation	2,419	3,650	-	-	-	-	-	-	-	-	-	3,650	3,650
Enterprise Documents and Records Management Phase2 Enterprise eLearning Initiative (ELI) Agreement		1,375 277	-	-	-	-	-	-	-	-	-	1,375 277	1,375 277
eRecruitment	5,208	4,034	563	-	-	-	-	-	-		-	4,597	8,670
eTime Enterprise Rollout	1,623	1,441	-	-	-	-	-	-	-	-	-	1,441	1,623
eTime Scheduling Enterprise Rollout HR Electronic Skills Ass. Solution	14,950 654	1,970 86	-	-	-	-	-	-	-	-	-	1,970 86	16,920 654
HR Labour Relations Information System (LRIS)	004	505	-	-	-	-	-	-	-	-	-	505	505
Internal Private Cloud Services		1,533	1,777	-	-	-	-	-	-	-	-	3,310	3,310
IT Audit Project Health Check Framework  MLS Centralized Datamart	4,597	130 600	1,800	-	-		-	-		-	-	130 2,400	130 6,997
MLS Modernization-Phase 2	4,675	-	2,489	5,804	-	-	-	-	-	-	-	8,293	10,793
Occ Health & Safety App 2016-2019	1,753	516	762	429	-	-	-	-	-	-	-	1,707	1,908
OnLine Portal Services for City Planning Open Data Master Plan Implementation	1,195 713	450 878	480	158	-	-	-	-	-	-	-	930 2,072	1,274
PTP Enhancements	/13	390	1,036	136			-	-	-	-	-	390	2,072 390
Publicly Accessible Wi-Fi for City Facilities		287	650	282	-	-	-	-	-	-	-	1,219	1,219
SDFA- Online Grant Management System	230	-	50	-	-		-	-	-	-	-	50	234
TOP - Online Donation Application Toronto Building Electronic Service Delivery	389	49	201	-	-	-	-	-			] [	201 49	510 49
Toronto Building-CRM-Enhanced Complaint Management	347	236	539	-	-	-	-	-	-	-	-	775	967
Web Information Portal on Dvlpmnt Applications	626	7	-	4 000	-	-	-	-	-	-	-	7	626
Work Mgmt Solution-Transportation Sub-Total	46,472	2,350 <b>30,860</b>	17,450	1,200 11,730	2,044	152	152	167	167	167	167	3,550 63,056	91,702
Growth Related	10,112	00,000	,	11,100	2,011	.02	.02					00,000	0.,.02
Application Portfolio T&R Scope Change		(650)	_	-	-	-	-	-	-	-	-	(650)	
Application Portfolio Tools & Rationalization		937	-	-	-	-	-	-	-	-	-	937	
CLASS Replacement Planning Consolidated Data Centre	13,600	75 3,534	75 1,600	-	-	-	-	-	-	-	-	150 5,134	150 15,200
Data Center Scope Change	13,000	2,548	1,000	-	-	-		-			] [	2,548	15,200
Data Centre Zones Implementation		200	1,066	-	-	-	-	-	-	-	-	1,266	1,266
eCity Program Renewal Enterprise Architecture		500	479 500	148 500	- 500	- 500	500	500	- 500	500	- 547	627 5,047	
Enterprise Information Security Pgm		3,562	2,400	2,400	400	400	123	500	500	500	547	9,285	
Enterprise Solutions Design & Implementation		-	-	-	4,400	5,556	5,001	6,099	6,099	6,099	6,081	39,335	
IT Planning & Mgmt Transformation Tools			-	-	2,000	1,787	1,790	1,962	1,962	1,962	1,956	13,419	
IT Service Process Improvement Program Major Cap Infrastructure Project Coord. (TOINView)	1	58	878 116	880 309	-	-	_					1,816 425	1,816 902
	902			1 505	- 1	- 1	1	1	1	1	1 1		1 302
System Enhancements for Licensing Services - MLS	902	24	-	-	-	-	-	-	-	-	-	24	
System Enhancements for Licensing Services - MLS Technology Infrastructure Growth		-	-	-	4,738	7,015	7,366	8,072	8,072	8,072	8,049	51,384	
System Enhancements for Licensing Services - MLS Technology Infrastructure Growth WAN High Speed Fibre Data Services	2,008	82	- - - 1 1/10	-	4,738	7,015 -	7,366 -	8,072 -	8,072 -	8,072 -	8,049 -	51,384 82	2,008
System Enhancements for Licensing Services - MLS Technology Infrastructure Growth		-	1,448 <b>8,562</b>	4,237	4,738 - - 12,038	7,015 - - - 15,258	7,366 - - 14,780	8,072 - - 16,633	8,072 - - 16,633	8,072 - - 16,633	8,049 - - 16,633	51,384	2,468
System Enhancements for Licensing Services - MLS Technology Infrastructure Growth WAN High Speed Fibre Data Services Workforce Business Intel. Requirements	2,008	82 1,020		4,237	-	-			-	-	-	51,384 82 2,468	

# 2019 - 2028 Key Capital Projects

Capital projects funded in the 10-Year Staff Recommended Capital Plan support Information & Technology's objectives to provide and develop City-wide enterprise and divisional business I&T applications, along with an integrated and secure I&T infrastructure, in support of dependable services to City Programs and the Public.

Maintaining the City's technology network, application systems and technology infrastructure in a state of good repair and delivering key multi-year initiatives such as the Consolidated Data Centre, Business Continuity and Disaster Recovery, Enterprise Business Intelligence Implementation, Open Data Master Plan Implementation and the Enterprise Document and Records Management System drive City business transformation and modernization initiatives to meet City business objectives, gain service efficiencies and improve customer experience associated with the delivery City Programs and Services.

# Legislated

- Legislated projects total \$3.113 million or 1.3% of the total 10-Year Staff Recommended Capital Plan's expenditures.
  - AODA Compliance for City Applications project (\$2.768 million) is required to ensure City applications are compliant with the Accessibility for Ontarians with Disabilities Act (AODA) which requires that public facing websites, content, and applications are compliant by 2021.
  - EDHR Complaints Management System project (\$0.345 million) will provide an electronic complaints, consultation, intervention and investigation case management solution for the Human Rights Office.

# State of Good Repair (SOGR)

- SOGR projects account for \$229.177 million or 53.5% of the total 10-Year Staff Recommended Capital Plan's
  planned spending. The 10-Year Capital Plan incorporates new investment dedicated to various SOGR project
  groupings that focus on required capital maintenance, including:
  - Asset Lifecycle Management (\$205.907 million) for I&T to upgrade/replace I&T infrastructure components to maintain state of good repair and to ensure compatibility with City applications and enterprise software. This will confirm all software is in line with corporate standards and includes licensing requirements of inscope infrastructure requirements. Included in this group are Desktop Hardware and Software, Enterprise Server/Software and Storage, and Network Asset and Security replacement projects.
  - The Disaster Recovery project (\$6.148 million) required for maintenance and support costs related to the additional I&T infrastructure put in place in the Disaster Recovery Data Centre. The project is part of a business risk mitigation strategy to develop and maintain a harmonized Disaster Recovery and Business Continuity program for the City that ensures continuity of operations and service delivery to the public in the event of an unexpected outage of either business processes or associated information technology.
  - Integrated Business Management System (IBMS) Review and Transformation (\$4.242 million) required to assess and plan the upgrade or replacement of the current system which is at end-of-life and vendor support ended. Additional costs will be identified once business requirements are determined.
  - Project Portfolio Management System (SOGR) project (\$2.565 million) to replace the existing Project
    Portfolio Management (PPM) system used by I&T that is no longer supported. Scope includes performing
    a current and future state assessment, fit-gap analysis, procurement of solution and implementation..

# Service Improvement

- Service Improvement projects amount to \$63.056 million or 14.7% of the total 10-Year Staff Recommended
  Capital Plan's expenditures for projects that are aligned with corporate strategic priorities, gain service
  efficiencies and improve the customer experience associated with the delivery of City Programs and Services:
  - The Artificial Intelligence (AI) for SSHA and TPH project (\$3.000 million). \$0.500 million will pilot a technology solution that will drive appropriate decision-making that will enable both SSHA & TPH establish predictive models and correlation between less than optimal social housing and mental health. This work should also inform and verify the favourable conditions that support positive mental health and wellness.

Of the total cost projection, \$0.500 million is being committed as a pilot study. The remaining \$2.500 million is a planned increase in existing funding for total costs to complete the project implementation and will be committed once the pilot is complete, subject to initial results.

- The Cloud-Based Human Resources Information System (CHRIS) project (\$5.896 million) will implement Employment Central, a foundational module within the SAP SuccessFactors platform, and will transform specific HR and Payroll business processes in the areas of personnel actions, positions, jobs, organizational data management and security. This will be achieved by:
  - Implementing a new Human Capital Management (HCM) system to optimize organizational management and personnel administration processes across the city
  - Enhancing the related existing security framework by incorporating leading industry practices; and
  - Enabling user-friendly intuitive workflows that will support the city's complex and needs shared between business owners and stakeholders.
- Corporate Geospatial Strategy Roadmap Implementation (\$2.990 million) will transform geospatial capabilities across the organization, through implementing a foundational geo-enablement infrastructure within the corporate repository, increasing workforce capabilities and working with divisions, including Transportation Services. The Corporate Geospatial Strategy and Roadmap was a 10 month initiative that included input from over 150 stakeholders, 15 Divisions, Agencies, Boards and Commissions and international Cities. This documented strategy is completed as of July 2018 and includes a roadmap that describes a series of work packages along with objectives, measures and timelines. The implementation will occur over a 4 year period and will build and strengthen geospatial information as a vital asset.
- ECS Cloud Deployment Construction Project and Document Management System (\$4.668 million). The cloud based Construction Project and Document Management system will implement a modern, automated, digital technology solution to enable the business to manage its construction project delivery lifecycle & related drawings & documents effectively and efficiently. Scope will include procuring a vendor, development of business requirements and TO BE processes, HR implementation plan, Stakeholder engagement plan, Change Management Plan, migration of data from legacy to new systems; integration with City infrastructure, integration with partner infrastructure or services as needed, build/configure, testing, training and transition to operations in a staged approach.
- The Enterprise Documents and Records Management Phase 2 project (\$2.125 million) is phase 2 of the EDRMS, piloting the solution with four business units. Phase 3 will migrate data governing 9 million files and boxes of physical records relating to City divisions and a number of agencies. Once data migration is completed, Livelink Records Server will be decommissioned.
- Enterprise eLearning Initiative (ELI) Agreement Renewal Analysis and Options Exploration (\$0.277 million) will deliver a validated set of requirements to select an enterprise Learning Management System to further improve operating and system efficiency, continue to reduce complexity, reduce interfaces, and be the system of record for Learning.
- A change in scope to the existing budget for the eRecruitment project (\$4.597 million) to complete the need to modernize & address inefficiencies currently experienced with the existing system for various recruitment and job application business processes on behalf of the City's divisions. The scope of the project includes determining the current needs of the city with regards to recruitment and job application business process, assessing these needs against the current tool in existence, performing a fit-gap analysis and possibly explore the implementation of a new solution to meet the needs.
- The eTime Scheduling Enterprise Rollout project (\$3.411 million) builds on the pilot rollout for Parks, Forestry & Recreation (PF&R) and Toronto Paramedic Services (TPS) by implementing scheduling solutions for six additional divisions: Corporate Security, Fleet Services, Toronto Public Health, Long Term Care, Children's Services and ML&S.
- HR Labour Relations Information System (LRIS) (\$0.505 million) will assess the needs of Labour Relations
  through the current and desired future state analysis, business process mapping and requirements towards
  an integrated solution. It will assess these needs against opportunities to leverage a City readily available

system, solutions in the marketplace, and a comparable effort for an in-house developed option, and recommendations to move forward. The primary deliverable at the completion of the project will be a report on the seed initiative outcomes, including analysis and best recommendations for a new Labour Relations solution including new business case submission and cost benefit analysis. Phase 2 funding will be required to complete the optimal solution.

- The Internal Private Cloud Services project (\$3.310 million) will plan, build and implement a new I&T foundation technology platform by introducing an Internal Private Cloud Services in the City as part of a Hybrid Cloud model of the Cloud Strategy. The new service would modernize technology, enable agile, flexible and scalable IT services to enhance workforce capabilities and improve service response time and operations requirements as well as meet AGO's recommendations to support Cloud Services.
  - Other objectives include an online, self-serve portal to request server infrastructure and platform as a service, and request of configuration change, subscription based services with defined and agreed upon operating costing model, automation of service provisioning within the planned scope, and reporting and monitoring of subscribed and actual usage.
- The MLS Centralized DataMart project (\$2.400 million) continues the implementation of a consolidated data repository to provide one stop shop for business reporting and dashboard. The BI solution will extract data from 3 operation systems (Progress, IBMS and Chameleon) based on standardized data format & predefined business rules. In combination with a data dictionary and comprehensive master data will provide the business an authoritative single source for management reporting.
- The Project Tracking Portal (PTP) Expansion & Enhancement (\$0.390 million) project will deliver short-term enhancements to the Project Tracking Portal that are required in advance of Engineering Construction Services' (ECS) implementation of a Construction Management System, including improved reporting and analytics, improved access to data and expanded access and functionality to support transit projects.
- Publicly Accessible Wi-Fi for City Facilities (\$1.219 million) will launch the TOConnect Wi-Fi Program, a new service supporting the technology modernization of city owned facilities by providing publicly accessible Wi-Fi amenity as a means of increasing digital accessibility to the public. This project will build a team to oversee the research, analysis, procurement, pilot implementation and lifecycle management process development prior to transitioning to I&T operations sustainment.

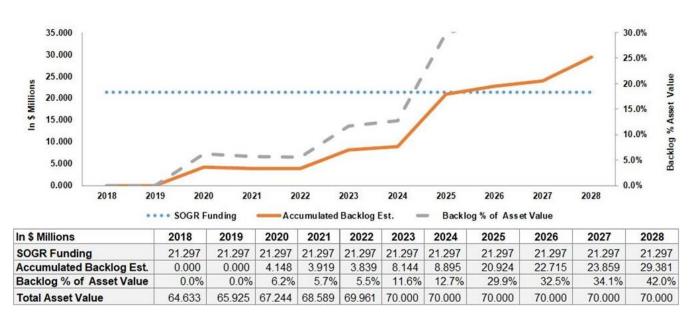
# Growth Related

- Growth Related projects total \$133.297 million or 31.1% of the total 10-Year Staff Recommended Capital Plan's
  allocated funding. Growth related projects are associated with adding enhancements or capabilities to
  divisional or enterprise applications and the growing adoption of technology systems to support City Programs
  and Services and include:
  - CLASS Replacement Planning (\$0.150 million) for seed funding to assess Parks, Forests and Recreation's remaining use of CLASS and the associated business requirements against the new Recreation Management system and other corporate solutions to develop a plan for their migration to a replacement solution and the retirement of the CLASS business system.
  - The IT Planning & Management Transformation Tools project (\$13.419 million) provides funding to sustain growth and keep pace with the rapidly changing demands and expectations for information and services, City of Toronto needs to develop new solutions and provide new technologies and migrate from slower and outdated systems.
  - The Enterprise Information Security Program (\$9.285 million) project will develop an Information Security program through governance and risk management that supports the ability of management to innovate while controlling risks. The program will be based on various industry frameworks/standards (such as ISO27002, COBIT) to implement security components in a balanced, risk-based approach among organization, people, process and technology.
  - Enterprise Solution Design & Implementation project funding (\$39.335 million) will enable future
    enhancements and developments to the City's business application systems to meet growing demand from
    City Programs and Services. This project will also include the development of an enterprise solutions

- delivery management framework that will provide guidelines, policies, standards, methodology and processes to ensure the effective sustainment and operation of the City's business systems.
- Technology Infrastructure Growth (\$51.384 million) for changing technology, improving and taking advantage of new capabilities to keep current with industry standards. Other key sub-projects include replacement of legacy file management services and implementing new security design for the data centre IT infrastructure.
- Workforce Business Intelligence Requirements (\$2.468 million). The original Workforce INformation (WIN) project delivered a dashboard with 7 of the originally planned 14 workforce topics in June of 2018 at a cost of \$1.698 million. Phase 2 will focus on adding the remaining 7 workforce topics to complete the City's first Workforce Dashboard. This in turn fulfills the project goal of providing business leaders with direct, desktop access to strategic workforce data that aims to support their workforce planning / management through evidence based decisions and by providing key insights. The final deliverable will be an enhanced WIN Dashboard that delivers the complete spectrum of workforce data to all City leaders (a strategic goal of the Talent Blueprint) and enables them to better monitor their workforce planning and management progress by leveraging new functionality such as more topics, historic view and industry benchmarks for comparison.

# State of Good Repair (SOGR) Funding & Backlog

The City has established a well-defined Lifecycle Management plan for I&T assets, prioritized for program needs to replace equipment before end of life. Funding in the 10-Year Capital Plan addresses State of Good Repair based on planned lifecycle and ensures business continuity of the City's technology. Based on this plan, it is forecasted that there will be a backlog starting in 2020 in the amount of \$4.148 million and will increase to an anticipated \$29.381million by 2028. Included in the SOGR funding is \$29.020 million for enterprise email and productivity software upgrades



**Chart 3: Total SOGR Funding & Backlog** 

# **Operating Impact of Completed Capital Projects**

2019 Budget 2020 Plan 2021 2022 Plan 2023 Plan 2019 - 2023 2019 - 2028 Projects \$000s \$000s Previously Approved Enterprise Solution Delivery Manage Intranet Refresh (Phase 1 ITWeb) 14 14 14 Web Bus. Cont. Refresh & Redesign 50 50 50 Sub-Total: Previously Approved 100 lew Projects - 2019 267 2.0 267 Sub-Total: New Projects - 2019 121 1.0 112 1.0 34 2.0 2.0

Table 5: Net Operating Impact Summary

The Staff Recommended 10-Year Capital Plan will increase future year Operating Budgets by \$0.367 million net over the 2019 - 2028 period.

Several impacts will be funded by clients, including the *System Enhancements for Licensing Services MLS* project. Excluding the client-funded projects, the net operating impact for I&T is 1 FTE and \$0.221 million in 2019.

# **2018 CAPITAL PERFORMANCE**

# 2018 Project Delivery

During 2018, Information & Technology accomplished the following capital projects and activities:

- Enabled the City of Toronto to successfully conduct the 2018 Municipal Election for the fourth largest
  municipality in North America which fulfilled the City's commitments to legislative compliance, democratic
  principles, and the equitable treatment of all candidates and electors using modern technologies to allow for
  greater openness and transparency. Managing a voting list of 1,880,371 and processed 769,044 votes across
  1700 voting locations on Election night that were available at election close 8:00 pm and delivered to the public
  by 8:15 pm.
- Achieved Payment Card Industry's (PCI) Data Security Standards Level 1 Merchant Certification, enabling the
  continuity of revenue generating payment processing, and ensuring citizen trust that credit card data would not
  be retained in our records. This resulted in avoidance of \$5K in monthly non-compliance penalties. The City is
  also the only municipality in Canada to achieve Level 1 Merchant certification.
- Implemented the Toronto Public Health (TPH) Infectious Disease Control Information System (IDCIS) an application that helps Toronto reduce the spread of communicable diseases that can lead to death. By supporting stronger links to health care providers, the public, TPH, and the Ministry of Health and Long Term Care, there is more accurate and timely information available during major health incidents. This implementation also enabled TPH to deliver services that meet the health needs of Toronto's diverse communities through improved tracking of immunization services and vaccine inventory.
- Expansion of the City's Tiffield Road Data Centre is in progress, scheduled for completion in Q4 2019, preparing this facility to deliver improved resiliency, security, and the services needed to deliver internal private cloud services and co-location. This positions the City to offer Data Centre Services to Agencies in the future.
- Enhanced the City's website (<u>www.toronto.ca</u>), which is accessed by over 26+ million visitors annually, complying with accessibility legislation AODA), providing public access to City services using modern, dynamic, interactive web and mapping technologies and supporting greater delivery of secure, online services.
- Implemented the Equity Lens tool that helps identify and address barriers that may be experienced by equity-seeking communities and Indigenous Peoples accessing City services. This application helps staff when planning, developing and evaluating policies, programs, services or budget proposals and it also generates Equity Impact statements that are required for all significant policy and strategic staff reports.
- Implemented online Animal Services capability that modernized the manual licensing process by enabling email pet license renewal notifications.
- Completed the delivery of Enterprise eForms foundation that provides divisions with the capability of reducing
  paper based forms, improving service delivery response time, and minimize IT resource dependency by
  providing a user-friendly capability for self-serve, electronic form creation.

# Status Update on Council Approved New Capital Projects in the 2018 Capital Budget

During the 2018 Budget process, City Council approved new capital projects totalling \$25.750 million in the 2018 Capital Budget for Information & Technology. The implementation status is detailed below:

- AODA Compliance for City Applications Funding of \$4.151 million was approved to ensure City applications
  are compliant with the Accessibility for Ontarians with Disabilities Act (AODA) which requires that public facing
  websites, content, and applications are compliant by 2021. The project is projecting to spend 70% of planned
  expenditure. The Staff Recommended 10-Year Capital Plan includes \$0.405 million approved in 2018 to be
  carried forward into 2019 to complete this work.
- Business Applications Service Monitoring Funding of \$0.700 million was approved to enhance the current set
  of tools for systems level monitoring of business to include monitoring the services/applications layer to provide
  timely awareness to business clients on health, performance and availability. The project is on track, projecting

to spend 80% of its 2018 approved cash flow. The Staff Recommended 10-Year Capital Plan includes \$0.030 million approved in 2018 to be carried forward into 2019 to complete this work.

- DLAN Cloud Services Implementation Funding of \$0.165 million was approved to migrate the Office of Emergency Management's web-based incident management system to the Cloud based solution provided by the same Vendor. The benefits include lower operating costs, lower operating risk and better accessibility over the Cloud. The project has experienced procurement delays. The Staff Recommended 10-Year Capital Plan includes \$0.165 million approved in 2018 to be carried forward into 2019 to complete this work.
- Enterprise Business Intelligence(BI) Implementation Funding of \$4.998 million was approved to enable all Divisions to integrate their data into a single authoritative source and allow self-serve access using industry standard BI tools. To date, project spending is on track with a projected 95% spend rate in 2018. The Staff Recommended 10-Year Capital Plan includes \$0.087 million approved in 2018 to be carried forward into 2019 to complete this work.
- eTime Enterprise Rollout Funding of \$2.882 million was approved to rollout eTime self-time reporting to
  divisions who were ready and willing to do so. The project has been delayed with post go-live stabilization
  issues (user / divisional adoption and transition to sustainment / operations). The Staff Recommended 10-Year
  Capital Plan includes an additional request for \$1.970 million in 2019 to continue rollout to other divisions. To
  date, the following divisions have been onboarded:
  - I&T
  - PPF&A
  - City Clerk's
  - City Manager's Office
  - HR
  - Toronto Water
  - ICS Business Management

- PPEB
- Facilities Management
  - SWMS
- Environment and Energy
- Real Estate Services
- SSHA
- Office of Emergency Management

It is recommended that the project team report back the benefits received to date during the 2020 budget process.

- Geospatial Tool Enhancements Funding of \$0.545 million was approved for State of Good Repair work on the
  City's key application used to maintain and manage core geospatial data consisting of addresses and street
  centrelines. The project started later than planned and projects that it will spend 44% of its 2018 planned cash
  flow. The Staff Recommended 10-Year Capital Plan includes \$0.140 million approved in 2018 to be carried
  forward into 2019 to complete this work.
- IBMS Review & Transformation Funding of \$7.088 million was approved to drive the transformation of the services supported through the Integrated Business Management System. The project has experienced delays due to contractor and staff resourcing issues. The Staff Recommended 10-Year Capital Plan includes \$1.878 million approved in 2018 to be carried forward into 2019 to complete this work.
- Open Data Master Plan Implementation Funding of \$2.779 million was approved to implement the City's Open Data Master Plan and 4-year roadmap which will enable 24 x 7 real-time access to the City's open data, allow City Divisions to more broadly leverage internal City data to accomplish work and reduce duplication of effort, and help solve civic issues which will have high public benefit and impact. The project will also aim to accomplish increase the quality of open datasets, speed and efficiency of open data production for internal teams. The project is projecting spending of 100% of its 2018 approved cash flow.
- SDFA- Online Grant Management System Funding of \$0.280 million was approved to implement a user-friendly Software as a Service (SaaS) solution for Online Grants Management to strengthen operational effectiveness of 2,000 clients and City staff through data management enhancements, improved process management, and improved client relationship management. The project has been delayed while obtaining buy-in from Divisions to adopt and fund the sustainment of the solution. The Staff Recommended 10-Year Capital Plan includes \$0.184 million approved in 2018 to be carried forward into 2019 to complete this work.

- Online Donation Application Funding of \$0.590 million was approved to continue the work done in Phase 1, that implemented a centralized Donation Management System for one City Division, to develop an on-boarding processes, further support donation management as a business, and onboard additional divisions to Donation Management System. The project is delayed due to insufficient project resourcing. As a result, the Staff Recommended 10-Year Capital Plan includes \$0.309 million approved in 2018 to be carried forward into 2019 to complete this work.
- Toronto Building-CRM-Enhanced Complaint Management Funding of \$1.122 million was approved to implement a Customer Relationship Management solution to enable an enhanced, customer-focused complaint tracking process in Toronto Building. The solution will improve the division's ability to respond to over 7200 customer complaints annually, improve complaint tracking. The solution will also be integrated with other Divisions and 311 to enable collaboration and promote consistency between Divisions by providing Toronto Building and other Divisions a common view into issues relating to construction activity. The project has been delayed due to insufficient resources. The Staff Recommended 10-Year Capital Plan includes \$0.192 million approved in 2018 to be carried forward into 2019 to complete this work.
- Wellbeing Toronto Total funding of \$0.450 million was approved to upgrade Wellbeing Toronto
  (www.toronto.ca/wellbeing), a web mapping/data visualization tool that presents 400+ indicators of well-being
  about Toronto's neighbourhoods. The project is currently on hold while the project team assesses the
  alignment of the project among the current project portfolio, as many of the functional requirements for this
  project (web mapping app with indicators) overlap with other similar projects within the City. The Staff
  Recommended 10-Year Capital Plan includes \$0.450 million approved in 2018 to be carried forward into 2019
  to complete this work.

# 2018 Financial Performance

2017 2018 2019 Staff Recommended Staff Recommended Spending Spending **Project Category** Rate Projected Capital Budget (excl. Capital Budget (incl. Rate (In \$ Millions) **Budget** Actual % Budget Actual \* % 1 Yr Carry Forward) 1 Yr Carry Forward) Health & Safety Legislated 1.383 0.978 70.7% 1.864 2.269 **SOGR** 40.859 27.001 66.1% 46.727 30.728 65.8% 22.558 33.642 24.385 51.9% 25.026 63.5% Service Improvement 47.021 39.430 30.860 37.703 **Growth Related** 0.900 0.273 30.3% 1.300 1.100 84.6% 11.890 17.666 88.780 51.659 58.2% 88.840 57.832 67.172 91.280 Total 65.1%

Table 6: Budget vs. Actual by Project Category

Note - 2018 projection based on the Q3 capital variance submission

As illustrated in the table above, the year-end expenditures are projected to result in a 65.1% spend rate for 2018. Many of the projects included in the Staff Recommended 10-Year Capital Plan are transformational in nature, involving staff resources within I&T and from other City Programs and often involve significant changes to current business processes that require time to implement successfully. These factors make it difficult to accurately estimate the duration needed to deliver projects. The I&T Division is currently implementing a number of initiatives and priority actions to improve capital spending rates in 2019. These actions include:

- Leveraging the Integrated IT Portfolio Integrated Plan process in which projects are reviewed for readiness, dependencies, capacity to deliver and historical spending. Cash flow funding is adjusted for many projects, including some being deferred or cancelled, to better align with expected delivery of projects
- Growing the Project Management Office, including recruitment of staff with the required skill set, to improve planning, procurement and overall coordination of capital project delivery across the IT Capital portfolio.

For additional information regarding the 2018 Q3 capital variances and year-end projections for Toronto Fire Services, please refer to the attached link for the report entitled "Capital Variance Report for the Nine-Month Period Ended September 30, 2018" adopted by City Council at its meeting on December 13, 2018. http://app.toronto.ca/tmmis/viewAgendaltemHistory.do?item=2019.CC1.8

# Impact of the 2018 Capital Variance on the 2019 Staff Recommended Capital Budget

- As a result of the delays in the capital projects described in the 2018 Q3 Capital Variance Report, funding of \$24.108 million is being carried forward from 2018 for inclusion in the 2019 Staff Recommended Capital Budget to continue the capital work.
- In addition, \$5.210 million in cash flow funding is being carried forward from 2017 and requires Council to reaffirm its commitment, consistent with the treatment of funding being carried forward 2 or more years.
- The 2019 2028 Staff Recommended Capital Budget and Plan includes revised cash flow funding estimates. The Program has realigned cash flow estimates in 2019 based on the revised project timeline and activities.



# **ISSUES FOR DISCUSSION**

# **ISSUES IMPACTING THE 2019 BUDGET**

# 2019 Budget Overview

# 2019 Operating Budget:

- The Information & Technology division provides city-wide leadership in modernizing City services through the strategic investment, development and management of the City's Information Technology (IT) systems including:
  - Critical Business Systems delivery and support for City Programs and service delivery to residents, businesses and visitors.
  - IT foundation infrastructure capacity that is adaptable to sustain and meet growing demand for City Program business needs.
  - Employee Productivity Solutions that drive service excellence
- For 2019, the Staff Recommended Operating Budget of \$133.709 million gross and \$79.140 million net represents a 3.0% increase from the 2018 Approved Net Operating Budget. Increases to the base operating budget are mainly driven by:
  - Salary and benefit increases relating to progression pay and step increases across all services within I&T.
  - The third phase of tax-funding of \$1.775 million for capital positions originally approved by Council in 2013 for the delivery of IT capital projects. In 2018, a bridging strategy was used to defer Phase 3 of the plan approved in 2013 to transfer funding of permanent positions for ongoing capital delivery to the base operating budget over 4 years. The deferral is being realized as a pressure in I&T's 2019 operating budget. The fourth (last) phase of tax-funding of \$1.775 million will take place in 2020.
  - Base Expenditure drivers include \$1.259 million in hardware, software licenses and maintenance costs to support City's operations and business modernization initiatives and driven by an increase in users, information and technology systems, and infrastructure.
- The following actions contribute to reducing the base pressures and therefore are recommended for 2019:
  - Optimize & Rationalize Application Development in City Divisions
    - In 2018, I&T completed a City-wide IT Industry Benchmark study, conducted by Gartner Inc., to examine City-wide budget and staffing levels across industry standard IT functions and in comparison to public and private sector peer organizations.
    - The study identified that City-wide IT was generally in alignment to IT budget and staffing allocations in comparison to peer organizations, however one area identified for further review was the allocation of budget and staffing to IT applications development and support functions, which was slightly higher than industry average/comparisons.
    - There are currently over 350 IT positions in divisions other than I&T providing a variety of IT functions with ~220 positions providing application development and support functions.
    - Utilizing the IT Benchmark study, I&T has identified an opportunity to consolidate City-wide application development and support to achieve synergy and savings, representing a 4.2% reduction in the budget allocated to divisional IT application development and support functions.
    - In order to realize these savings of \$1.325 million, I&T is undertaking an overall City-wide IT Operating
      Model review in 2019. This will include a review of IT functions and positions City-wide (including I&T
      Division and Divisions with IT positions/functions) with an intent to optimize the organizational operating
      model and where appropriate standardize and centralize IT functions and processes, including but not
      limited to application development and support.

• In parallel, the I&T division will be undertaking an application roadmap review which in future will determine potential opportunities to further rationalize/optimize IT assets. The costs to develop the application roadmap and review of real savings, are yet to be determined.

# Detailed Vacancy Review

A review of vacant positions was conducted, focusing on positions vacant for more than 2 years. As a
result of the review, I&T has adjusted its Council Approved gapping rate from 5.5% to 6.4%, or \$0.695
million, on a one-time basis. This is possible due to a recent trend of longer than normal hiring cycles
within I&T. The I&T gapping rate will be reviewed during the 2020 Budget process.

### Service Efficiencies

- \$0.256 million in savings will be realized in 2019 following a review of systems with surplus licenses, consolidating internet circuits, switching to internally signed digital certificates and migrating systems to more cost efficient infrastructure;
- \$0.485 million from decommissioning older assets that are near or at the end of useful life, or no longer
  in use including the Domino Application, geospatial mapping services, Blackberry Enterprise Server,
  and reducing phone audio conference usage
- \$0.037 million can be saved by reducing the number of servers via virtualization, where multiple physical servers are consolidated in a single physical server, but still operate independently, and
- \$0.032 million in efficiencies can be realized by transitioning from OpenText to OpenSource Wordpress for toronto.ca Website Development which offers additional features for persons with disabilities.
- I&T's 2019 Staff Recommended Operating Budget of \$133.709 million gross and \$79.140 million net includes \$0.539 million gross and net for the following:
  - Cyber Security Awareness (AG Recommended) \$0.309 million for on-line subscriptions services and one
    permanent Senior Cyber Security Specialist position to advance cyber security awareness training for City
    staff.
    - The on-line subscription services would include the supply and implementation of a security education
      and awareness training program that will follow the City's Cyber Security Awareness framework and be
      delivered through the Enterprise eLearning Initiative (ELI).
    - The Senior Cyber Security Specialist is required to manage the training program including governance and compliance, course customization, data analytics and reporting.
  - Risk Management Cyber Security & Compliance \$0.230 million to add two permanent Senior Privacy Specialist positions to assist with the increasing volume of projects and work where Personally Identifiable Information (PII) is being stored or shared.
    - The collection of personal information is legislated, and by adding Privacy Specialists, I&T will be in a better position to address this key area in an effective manner.
    - The annual demand is approximately 35 Privacy Impact Assessment (PIAS), 10 funded through capital
      projects. Each resource can address approximately 3-4 PIAs per year for complex initiatives.
      Resources are also involved in Privacy consultations. Privacy Impact Assessments address risk to
      ensure privacy requirements (MFIPPA) are met and mitigated as solutions/enhancements are
      deployed.
    - By adding Privacy Specialists, I&T will be in a better position to manage risk and address this key requirement in projects and initiatives effectively and ensure legislative compliance

# 10-Year Capital Plan:

- The Staff Recommended 2019 2028 Capital Plan provides investments of \$428.643 million to provide and develop City-wide enterprise and divisional business I&T applications, along with an integrated and secure I&T infrastructure, in support of dependable services to City Programs and the Public, detailed as follows:
  - Legislated projects account for \$3.113 million, ending in 2022, primarily to ensure City applications are compliant with the Accessibility for Ontarians with Disabilities Act (AODA).
  - 53.5% or \$229.177 million in funding has been dedicated to State of Good Repair (SOGR) projects of which funding of \$205.907 million is for the Asset Lifecycle Management to maintain the City's technology infrastructure including the network and application systems.
  - Service Improvement projects account for \$63.056 million and included the Enterprise Collaboration
    Foundation project, the roll out of the Enterprise Electronic Time Sheet System, and the change in scope
    funding for eRecruitment and the Cloud-Based HR Information System (CHRIS) projects.
  - Growth Related projects account for 31.1% or \$133.297 million and include the Consolidated Data Centre
    project, the Major Capital Infrastructure Project Co-ordination (TOINView), and the Enterprise Information
    Security Program.
- This Staff Recommended 10-Year Capital Plan reflects an increase of \$7.666 million or 1.8% in capital funding when compared to the 2018 - 2027 Approved Capital Plan. Key changes are summarized as follows:
  - A review of capital requirements based on the reprioritization of capital needs and a review of the Program's spending capacity, its average annual spending rate over the past five years, and the readiness to proceed of planned projects resulted in realignment of cash flows to better reflect actual spending trends for major capital projects and meet revised project timelines. The result created debt room that helped add new critical I&T projects that enable the City to advance on its modernization and transformation agenda.
  - 17 New or Change in Scope projects were added to the I&T capital plan as recommended by the Business Executive Committee through the I&T Portfolio Integrated Plan.

In summary, Information & Technology faces many service challenges and budget pressures in 2019. Both the Staff Recommended 2019 Operating Budget and 2019 – 2028 Capital Budget and Plan will continue to support and implement I&T's strategic plan to modernize City services through the strategic investment, development and management of the City's Information Technology (IT) systems.

# OTHER ISSUES IMPACTING THE 2019 BUDGET

# **Increasing Cyber-Security Complexity**

- The demands to ensure a secure and protected City I&T infrastructure and availability of City systems to
  ensure City Program and service delivery for citizens, businesses and visitors, requires an effective approach
  to address ever increasing cyber threats. The increase in cybercrime and impacts on business and government
  is a global issue.
- Toronto, as Canada's largest City, is subject to ongoing cyber threats and annually the City addresses over 50 million cyber security events, from malware and viruses to attacks on our network and technology environment. The City needs to continue to be proactive and vigilant to monitor and address security vulnerabilities within this ever increasing complex cyber-security environment. Protection from incidents and prevention mean impacts and outages are avoided and costs from down-time saved.
- The 2019 Staff Recommended Operating Budget and 2019 2028 Capital Budget and Plan invests in effective
  cyber-security measures with a balanced approach to also drive openness in government as well and allow for
  innovative and new technology solutions to be adopted. This will also require continued corporate efforts in
  business continuity planning and readiness as well.

# **ISSUES REFERRED TO THE 2019 BUDGET PROCESS**

There are no issues that were referred to the 2019 Budget Process.

# **Requested Report Backs**

The following Council Recommendations require report backs in 2019 which have potential future financial implications:

# IT Infrastructure and IT Asset Management Review: Phase 1: Establishing an Information Technology Roadmap to Guide the Way Forward for Infrastructure and Asset Management

- On March 26, 2018, City Council adopted recommendations based on a report from the Auditor General
   (<a href="http://app.toronto.ca/tmmis/viewAgendaltemHistory.do?item=2018.AU11.3">http://app.toronto.ca/tmmis/viewAgendaltemHistory.do?item=2018.AU11.3</a>) requesting the City centralize IT
   governance and develop a Strategic Technology Roadmap to guide the acquisition and deployment of
   technology. The report includes recommendations to enable progress in creating and executing the roadmap
   to be completed in 2019.
- The Program has drafted the Technology Roadmap for the City as of Q4 2018 and is currently working on the request and anticipates providing a status update to the Audit Committee as per Auditor General Office reporting requirements in 2019.

# **Supporting Equity Goals with Disaggregated Data**

• On May 22, 2018, City Council adopted recommendations based on a report from the Executive Director, Social Development, Finance and Administration and the Director, Equity, Diversity and Human Rights on Supporting Equity Goals with Disaggregated Data (<a href="http://app.toronto.ca/tmmis/viewAgendaltemHistory.do?item=2018.EX34.10">http://app.toronto.ca/tmmis/viewAgendaltemHistory.do?item=2018.EX34.10</a>) including the Chief Information Officer, the Chief Transformation Officer, the Executive Director, Social Development, Finance and Administration and the Director, Equity, Diversity and Human Rights, in consultation with the City Clerk's Office, Corporate Information Management Services Section to report to City Council in 2019 with a detailed City of Toronto Disaggregated Data Strategy that identifies the specific processes and resources required by City divisions to incorporate disaggregated data collection, analysis and reporting to ensure equitable program planning and service delivery for Toronto residents that is also in accordance with the City of Toronto Open Data Master Plan

 The Program is currently working on the lead divisions on the request and anticipates supporting a report back during 2019

# Increasing Accessibility of Online Content and Materials for Public Consultations

- On May 22, 2018, City Council requested the Chief Information Officer, in collaboration with the Interim
  Director, Strategic Communications, to explore options to identify and eliminate accessibility barriers for online
  platforms and video materials used to share and enhance public consultations held by the City and report back
  to Council in the first quarter of 2019 this includes ensuring online content, that is streamed and stored online,
  is available to users on at least one accessible platform
  (http://app.toronto.ca/tmmis/viewAgendaltemHistory.do?item=2018.MM44.85).
- The Program is currently working on the request and anticipates providing a report back during Q3 2019

# Request for a report on a strategy to re-purpose City computers and IT equipment

- On March 26, 2018, City Council directed the Chief Information Officer and the Chief Purchasing Officer to
  prepare a report on a digital inclusion and digital equity approach to re-purpose City computers and other
  appropriate IT equipment; such approach should be developed and implemented in consultation with other City
  Divisions and charitable social enterprise organizations that refurbish computer equipment, and to report back
  to City Council through the Government Management Committee in the first quarter of 2019
  (http://app.toronto.ca/tmmis/viewAgendaltemHistory.do?item=2018.MM38.17).
- The Program is currently working on the request and anticipates providing a report back during Q3 2019

# **ISSUES IMPACTING FUTURE YEARS**

# **Funding Model for Cloud Solutions**

- The delivery of I&T solutions is steadily moving to new enterprise-wide Cloud based solutions through subscriptions vs. traditional on premise licensing models. These cloud solutions require lower capital investment but result in higher operating costs.
- The sustainment costs for these investments (licenses, maintenance and support costs) have primarily flowed through the I&T Operating Budget while the benefits derived are primarily being realized by the City Programs.
   These factors are eroding I&T's sustainment capacity and ability to absorb incremental and growing costs of technology implementation.
- As the costs associated with cloud based solutions will be funded by the Operating Budget, the City needs to
  establish a new funding model for cloud services.
  - The Business Executive Committee, comprised of the City Manager, Chief Financial Officer & Treasurer, Deputy City Manager, Chief Information Officer and Executive Director of Financial Planning, approved a framework that utilizes a Non-Program budget during an initial period of the subscription services to allow time for City Programs to realize benefits. Once the benefits start to become fully realized after the second year of implementation, the Programs operating budget will be adjusted accordingly, on an equitable basis.
- The funding model is wholly dependent on the articulation of all costs and benefits of business process changes to be itemized, monitored, reported, and captured. In order to do so, all business cases are required to identify benefits prior to formal approval of technology implementation.
- The funding model focuses on supporting corporate strategic modernization objectives and helps address Program's budget constraints during the benefit realization period.
- The Cloud funding framework will produce the following results:
  - Reduced financial pressure on Capital funds;
  - Opportunity to leverage Cloud-based technology for renewal roadmap and meet current/future business needs across the corporation;
  - Enable City to achieve strategic goals; and
  - Require quantification of business benefits in business case development, project plan and project implementation and forces a framework to capture, realize and report the benefits.
- In February 2018, Senior Management approved Cloud Services Governance made up of the following committees:
  - Cloud Steering Committee The Cloud Steering Committee is responsible to the CIO and provides strategic direction and accountability for the City's cloud initiatives. It provides advice for decision making purposes, resolving issues, clearing roadblocks at Executive Level, and championing cloud services for Software as a Service, Platform as a Service, and Infrastructure as a Service.
  - Cloud Architecture Review Board The Cloud Architecture Review Board (CARB) is the main operational component of Cloud Services Governance. It is a single integrated governance committee responsible for: Architecture, Assessing Cloud Proposals, Cloud Policies, Cloud Roadmap, Cloud Service Catalog, Cloud Strategy (Hybrid, Private, Public), Escalating strategy & policy issues, Governance (compliance, risk, standards), Resource Management, and Sustainability (financial, technological). It ensures the consistent enforcement of policies and guidelines to place limits on how, when, why, and for what purpose a cloud resource (such as data, processes, Application Programming Interfaces, storage, networks or compute) is used. CARB receives and assesses initial proposals for cloud initiatives to decide if they have merit to proceed to full development of a business case.
  - Benefits Realization Identification, monitoring and reporting through the annual budget process.

## Adequacy of the I&T Sustainment Equipment Reserve

- The I&T Sustainment Equipment Reserve is continually being drawn on for a growing inventory of items being added to the City technology inventory and therefore requires lifecycle replacement (computers, multi-function printing devices, tablets, core city infrastructure in network/servers, telephony, etc.).
- The 2019 budgeted contribution for the reserve is \$21.297 million.
- Based on the current forecast, the reserve will be depleted in 2020. Although created in 2004, the annual contribution to the reserve remained constant until 2018 when it was increased by \$2.0 million to address the growth in demand for technology over the past ten years resulting in an ever-expanding portfolio of assets. Citywide IT assets increased by 31% from 52,023 units in 2008 to 68,286 in 2017. Business demand for service efficiencies and public expectation for online services impacts infrastructure capacity and sustainment.
- The IT Equipment Reserve will require an increase in the budgeted annual contribution from 2020 onwards to support the increase in technology sustainment costs due to usage growth and license model changes (cloud subscription).
- Of note are major investments are currently planned in 2020 and 2025 that relate to upgrades to software installed on all City desktops and laptops.
- Information & Technology Division will work with the Financial Planning Division to explore options to address
  this shortfall including changes to standards and funding contributions from City Programs for added inventory
  associated with new hires in time for the 2020 budget process. I&T will also continue to work with City Divisions
  to assess and rationalize applications to optimize I&T technology investments and work through the I&T
  governance process.

INFORMATION & TECHNOLOGY DIVISION											
IT EQUIPMENT RESERVE - XQ1508											
Continuity Schedule	As at Octob	er 10, 2018									
In \$000s	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Opening Balance:	\$15,564	\$12,166	\$6,917	(\$4,148)	(\$3,919)	(\$3,839)	(\$8,144)	(\$8,895)	(\$20,924)	(\$22,715)	(\$23,859)
Total Contribution	21,297	21,297	21,297	21,297	21,297	21,297	21,297	21,297	21,297	21,297	21,297
Total Outflows											
Technology Assets Lifecycle Management	24,695	23,797	18,543	21,068	21,217	25,602	22,048	18,125	23,088	22,441	26,819
Resource to Deliver IT Capital Projects	0	2,749									
Total Outflows before Office Pro Plus and Exchange Upgrade:	24,695	26,546	18,543	21,068	21,217	25,602	22,048	18,125	23,088	22,441	26,819
Closing Balance before Office Pro Plus and Exchange Upgrade:	12,166	6,917	9,671	9,900	9,980	5,675	4,924	8,096	6,305	5,161	(\$361)
- Exchange User CAL - user upgrade <sup>2</sup>			3,035					3,338			
- Office Pro Plus - user upgrade <sup>2</sup>			10,784					11,863			
Total Outflows after Office Pro Plus and Exchange Upgrade:	24,695	26,546	32,362	21,068	21,217	25,602	22,048	33,326	23,088	22,441	26,819
Closing Balance after Office Pro Plus and Exchange Upgrade:	12,166	6,917	(\$4,148)	(\$3,919)	(\$3,839)	(\$8,144)	(\$8,895)	(\$20,924)	(\$22,715)	(\$23,859)	(\$29,381)
Annual Net Change in Reserve Balance: Increase/(Decrease)	(\$3,398)	(\$5,249)	(\$11,065)	\$229	\$80	(\$4,305)	(\$751)	(\$12,029)	(\$1,791)	(\$1,144)	(\$5,522)

#### REPORTING ON MAJOR CAPITAL PROJECTS: STATUS UPDATE

In compliance with the Auditor General's recommendations to strengthen accountability, additional status reporting on all major capital projects is required. The following projects have been reported on a quarterly basis during 2018:

#### Consolidated Data Centre

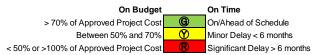
#### **Project Overview and Deliverables**

- The Consolidated Data Centre Project is a corporate project that was initiated to address the growing demand
  for new technologies, eliminate the dependency on leased data centre space, and improve the resiliency of the
  City's current infrastructure.
- The Data Centre project will define and implement a data centre strategy to migrate and consolidate these
  multiple data centres that currently exist in the City and are at full capacity together with other City Agencies
  and Corporations.

#### Financial Update

			Life to Date	2	018	2019	2020			End	Date		
	Initial	Approved	Expenditures					Projection					
Project name	Approval	Project	as at		Year-End			To End				On	On
(In \$000s)	Date	Cost	Dec 31, 2017	Budget	Projection *	Budget	Plan	of Project	Status	Planned	Revised	Budget	Time
Consolidated Data Centre	2014	13,600	5,038	6,284	3,681	3,534	1,600	13,853	On Track	Dec-19	Dec-19	G	G

<sup>\* 2018</sup> year-end projection based on the Q3 capital variance



#### **Project Status**

- Construction commenced in late June after funding was secured with contributions from FREEE and Toronto
   Water. The Toronto Hydro substation was installed in September to upgrade electrical capacity and resiliency.
- The next phase is to build the Toronto Water data hall and modernize their office space.

#### 2019 Plan

Substantial completion and commissioning of the whole data centre is targeted for the end of 2019.

#### Key Project Challenges

• The project had experienced early delays and budget pressures due to additional costs identified during the detailed engineering reviews as well as IT Shared Services considerations which resulted in additional time and effort needed to consider additional requirements to incorporate improved redundancy and automation which led to lower expenditures in 2017 and deferred spending to 2018. Detailed architectural, mechanical and engineering design have since been completed and the project is progressing to plan.

#### Enterprise Work Management System

#### **Project Overview and Deliverables**

The Enterprise Work Management Program is a multi-year program to implement a City-wide Work
Management System to improve the maintenance and service delivery operations for 4 major divisions:
Transportation Services, Toronto Water, Solid Waste Management and Parks, Forestry & Recreation.

#### Financial Update

			Life to Date	2	018	2019	2020			End	Date		
	Initial	Approved	Expenditures					Projection					
Project name	Approval	Project	as at		Year-End			To End				On	On
(in \$000s)	Date	Cost	Dec 31, 2017	Budget	Projection *	Budget	Plan	of Project	Status	Planned	Revised	Budget	Time
Enterprise Work	2013	8.130	2,167	3,093	2.009	2,305	0	7.681	Significant	Feb-25	Oct-25		
Management System		.,	, -	-,	,,,,,	,		,	Delay			Ø	Ø

<sup>\* 2018</sup> year-end projection based on the Q3 capital variance

On Budget

> 70% of Approved Project Cost
Between 50% and 70%

< 50% or >100% of Approved Project Cost

Between 50% and 70%

Significant Delay > 6 months

Significant Delay > 6 months

#### **Project Status**

The vendor is currently engaged and solution design and implementation planning is well underway. As the
implementation is across multiple divisions, the program has been split in three phases. The first go live release
for phase 1 is targeted for 2019 and phase 3 is targeted for completion in 2025. The road map is as such to
minimize implementation risk, allow for comprehensive sustainment planning and maximize benefit realization..

#### 2019 Plan

• 2019 will see the first go live release for phase.

#### Key Project Challenges

- The project experienced significant delays during the procurement stage due to renegotiation of vendor scope and City responsibilities. This consequently delayed selection and scoring.
- The Work Management Solution project was later re-forecasted based on renegotiations with the vendor on scope and City responsibilities

#### Enterprise Documents and Records Management

#### **Project Overview and Deliverables**

The Enterprise Documents and Records Management is a foundational and transformation initiative to manage
the City's information through incremental procurement and implementation of appropriate components to
establish an enterprise technology solution. The solution will manage digital records from creation to
destruction. After the pilot project, as an enterprise tool, EDRMS will provide a consolidated repository of City
information in all formats across all divisions.

#### Financial Update

			Life to Date	2	018	2019	2020			End	Date		
Project name	Initial Approval	,	as at		Year-End			Projection To End				On	On
(In \$000s)	Date	Cost	Dec 31, 2017	Budget	Projection *	Budget	Plan	of Project	Status	Planned	Revised	Budget	Time
Enterprise Documents	2014	4,070	1,789	1,473	824	2,100	0	4,713	Significant	Dec-17	Jun-19		
and Records									Delay			Y	Y
Management													

<sup>\* 2018</sup> year-end projection based on the Q3 capital variance

On Budget On Time

> 70% of Approved Project Cost
Between 50% and 70%

< 50% or >100% of Approved Project Cost

Between 50% and 70%
Significant Delay > 6 months
Significant Delay > 6 months

#### **Project Status**

- The City has signed agreements with the vendor to implement the solution and the work is in progress. The
  Solution has been designed and implementation and is expected to be completed in Q1 2019 to start the
  electronic pilot. A sample of physical records will also be migrated to provide final validation of system
  functionality, estimated February 2019.
- The Solution has been designed and implementation and is expected to be completed in Q1 2019 to start the
  electronic pilot. A sample of physical records will also be migrated to provide final validation of system
  functionality.

#### 2019 Plan

The Staff Recommended Capital Plan includes \$2.125 million in 2019 for phase 2 of the EDRMS, migrating
data governing 9 million files and boxes of physical records relating to City divisions and a number of agencies.
Once data migration is completed, Livelink Records Server will be decommissioned

#### **Key Project Challenges**

The project experienced significant delays during the requirements stage due to diversity and complexity of
requirements across City divisions. In response, the project team has developed a phased approach that will
provide sufficient time to implement a comprehensive change management program to ensure a successful
corporate transformation and adoption.

#### Web Revitalization: Web Refresh Phase 2

#### **Project Overview and Deliverables**

• The Web Revitalization: Web Refresh Phase 2 will revitalize the look and feel to enable client-centric accessible information and services to improve customer service and overall public user experience in accessing their City. Phase 2 included a re-assessment of the platform, tools and architecture used to host the site in addition to reconstruction of services to deliver a modern, citizen and service oriented website.

#### Financial Update

			Life to Date	2	018	2019	2020			End	Date		
	Initial	Approved	Expenditures					Projection					
Project name	Approval	Project	as at		Year-End			To End				On	On
(In \$000s)	Date	Cost	Dec 31, 2017	Budget	Projection *	Budget	Plan	of Project	Status	Planned	Revised	Budget	Time
Web Revitalization:	2014	7,780	6,878	900	878	0	0	7,756	Significant	Apr-18	Apr-18	(G)	G
Web Refresh Phase 2									Delay		-	9	9

<sup>\* 2018</sup> year-end projection based on the Q3 capital variance

On Budget

> 70% of Approved Project Cost
Between 50% and 70%

< 50% or >100% of Approved Project Cost

| On Time |
On/Ahead of Schedule |
Minor Delay < 6 months |
Significant Delay > 6 months |

#### **Project Status**

• The Project is complete with the new Web Content Management application and search tool, analytics tool and final service themes and website all delivered. Administrative project closeout activities underway.

#### Disaster Recovery Project

#### **Project Overview and Deliverables**

The Disaster Recovery Project is part of a business risk mitigation strategy to develop and maintain a
harmonized Disaster Recovery and Business Continuity program for the City that ensures continuity of
operations and service delivery to the public in the event of an unexpected outage of either business processes
or associated information technology.

#### Financial Update

			Life to Date	2	018	2019	2020			End	Date		
	Initial	Approved	Expenditures					Projection					
Project name	Approval	Project	as at		Year-End			To End				On	On
(In \$000s)	Date	Cost	Dec 31, 2017	Budget	Projection *	Budget	Plan	of Project	Status	Planned	Revised	Budget	Time
Disaster Recovery	2013	37,960	16,537	1,750	1,086	928	1,050	24,053	Significant	Dec-24	Dec-24	(Y)	G
Program									Delay			<b>U</b>	9

<sup>\* 2018</sup> year-end projection based on the Q3 capital variance

On Budget

> 70% of Approved Project Cost
Between 50% and 70%

< 50% or >100% of Approved Project Cost

| On/Ahead of Schedule |
Minor Delay < 6 months
| Significant Delay > 6 months |

#### **Project Status**

- In 2017, the project was reassessed to include establishing a governance framework, reviewing the DR strategy, and developing a 3 year work plan. In 2018 the project was being re-aligned to be more integrated with the Consolidated Data Centre project.
- To date, I&T Business Continuity/Disaster Recovery Governance Committee established and implemented recovery requirements collected from the business divisions during the business impact analysis (BIA) workshops which will be used to evaluate disaster recovery strategies

#### 2019 Plan

 The Staff Recommended Capital Plan includes funds of \$0.928 million in 2019 for disaster recovery planning and design that will be aligned with the construction activities occurring on the Consolidated Date Centre project.

#### Key Project Challenges

• The project has experienced minor delays due to resource constraints that are currently being addressed.

#### Enterprise Time Attendance & Schedule Management Solution

#### Project Overview and Deliverables

 The Enterprise Time, Attendance & Scheduling Management Solution Project is an enterprise-wide time, attendance and scheduling system that addresses the City's complex business rules and collective agreement requirements, and replaces current outdated and inefficient application. The solution will provide a single point of integration with the enterprise attendance management system.

#### Financial Update

			Life to Date	2	018	2019	2020			End	Date		
	Initial	Approved	Expenditures					Projection					
Project name	Approval	Project	as at		Year-End			To End				On	On
(In \$000s)	Date	Cost	Dec 31, 2017	Budget	Projection *	Budget	Plan	of Project	Status	Planned	Revised	Budget	Time
Enterprise Time,	2014	14,950	14,217	259	0	3,411		17,628	On Track	Dec-17	Dec-18		
Attendance &												®	®
Scheduling												W	W
Management Solution													

<sup>\* 2018</sup> year-end projection based on the Q3 capital variance

On Budget On Time

> 70% of Approved Project Cost
Between 50% and 70%

V Minor Delay < 6 months

< 50% or >100% of Approved Project Cost
Significant Delay > 6 months

#### **Project Status**

• The project was implemented for PF&R in 2016 and TPS in 2017. Post-implementation stabilization and change management issues are being addressed to mitigate user and operational impacts. The project team are currently working with the client to address critical issues as they arise.

#### 2019 Plan

• The Staff Recommended Capital Plan includes a request of an additional \$1.970 to continue the roll out of the solution.

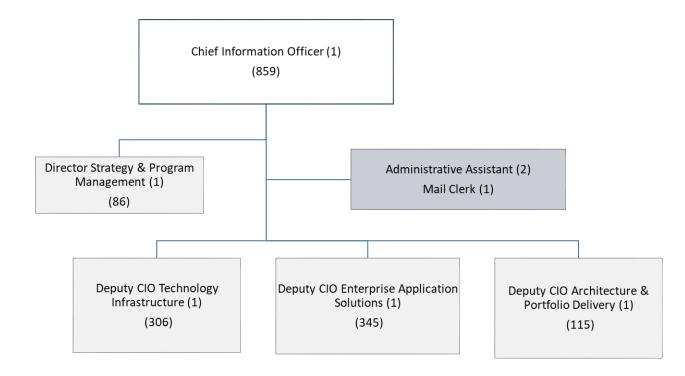
#### **Key Project Challenges**

• The project has experienced delays due post go-live stabilization issues with Toronto Paramedic Services (TPS).



# **APPENDICES**

### 2019 Organization Chart



The 2019 total staff complement includes the Chief Information Officer and staff for a total of 860.0 positions, comprising 218.0 capital positions and 642.0 operating positions as summarized in the table below.

#### **2019 Total Complement**

	Category	Senior Management	Management with Direct Reports	Management without Direct Reports/Exempt Professional & Clerical	Union	Total
	Permanent	5.0	136.0	104.0	393.0	638.0
Operating	Temporary			1.0	3.0	4.0
	<b>Total Operating</b>	5.0	136.0	105.0	396.0	642.0
	Permanent		2.0	-	16.0	18.0
Capital	Temporary		11.0	109.0	80.0	200.0
	<b>Total Capital</b>	-	13.0	109.0	96.0	218.0
<b>Grand Total</b>		5.0	149.0	214.0	492.0	860.0

## 2019 Operating Budget by Service

### **Business I&T Solutions**

	2018		2019				Increment	al Change
(In \$000s)	Approved Budget	Base	New / Enhanced	Total Staff Recommended Budget	Chan	ige s	2020 Plan	2021 Plan
By Service	\$	\$	\$	\$	\$	%	\$	\$
Solution Implementati	on							
Gross Expenditures	35,373.4	35,975.7	0.0	35,975.7	602.3	1.7%	757.9	542.0
Revenue	28,746.8	27,893.9	0.0	27,893.9	(852.9)	(3.0%)	(237.4)	23.4
Net Expenditures	6,626.6	8,081.8	0.0	8,081.8	1,455.2	22.0%	995.2	518.6
<b>Solution Sustainment</b>								
Gross Expenditures	17,630.1	17,309.0	0.0	17,309.0	(321.1)	(1.8%)	164.7	86.4
Revenue	2,763.6	7,604.4	0.0	7,604.4	4,840.7	175.2%	246.8	224.3
Net Expenditures	14,866.5	9,704.7	0.0	9,704.7	(5,161.8)	(34.7%)	(82.1)	(138.0)
IT Common Compone	nts							
Gross Expenditures	2,931.7	3,501.6	0.0	3,501.6	569.9	19.4%	85.0	22.7
Revenue	721.1	168.9	0.0	168.9	(552.2)	(76.6%)	(9.1)	1.2
Net Expenditures	2,210.6	3,332.7	0.0	3,332.7	1,122.1	50.8%	94.2	21.6
Authoritative Data Cus	stodianship							
Gross Expenditures	3,323.2	3,628.7	0.0	3,628.7	305.5	9.2%	117.9	29.6
Revenue	1,562.3	520.6	0.0	520.6	(1,041.7)	(66.7%)	(8.6)	2.7
Net Expenditures	1,760.9	3,108.1	0.0	3,108.1	1,347.2	76.5%	126.6	26.9
Total								
Gross Expenditures	59,258.4	60,415.0	0.0	60,415.0	1,156.6	2.0%	1,125.5	680.7
Revenue	33,793.8	36,187.7	0.0	36,187.7	2,393.9	7.1%	(8.4)	251.6
Total Net Expenditures	25,464.6	24,227.3	0.0	24,227.3	(1,237.3)	(4.9%)	1,133.9	429.1
Approved Positions	421.4	429.0	0.0	429.0	7.6	1.8%	(2.0)	0.0

## **Computer & Communications Technology Infrastructure**

	2018		2019				Increment	al Change
(In \$000s)	Approved Budget	Base	New / Enhanced	Total Staff Recommended Budget	Chan	ges	2020 Plan	2021 Plan
By Service	\$	\$	\$	\$	\$	%	\$	\$
Network & Telecommi	unications							
Gross Expenditures	13,998.0	12,939.9	0.0	12,939.9	(1,058.0)	(7.6%)	99.2	62.9
Revenue	5,604.9	5,887.3	0.0	5,887.3	282.4	5.0%	78.6	(9.0)
Net Expenditures	8,393.1	7,052.6	0.0	7,052.6	(1,340.4)	(16.0%)	20.6	71.9
Computing Infrastruct	ure							
Gross Expenditures	30,601.0	32,368.7	0.0	32,368.7	1,767.8	5.8%	496.5	126.1
Revenue	8,103.5	7,587.8	0.0	7,587.8	(515.6)	(6.4%)	96.9	(15.5)
Net Expenditures	22,497.5	24,780.9	0.0	24,780.9	2,283.4	10.1%	399.6	141.6
Total							1	
Gross Expenditures	44,598.9	45,308.7	0.0	45,308.7	709.8	1.6%	595.7	189.0
Revenue	13,708.4	13,475.2	0.0	13,475.2	(233.2)	(1.7%)	175.5	(24.5)
Total Net Expenditures	30,890.6	31,833.5	0.0	31,833.5	942.9	3.1%	420.2	213.5
Approved Positions	217.5	214.5	0.0	214.5	(3.0)	(1.4%)	(1.0)	(0.0)

# **Enterprise IT Planning & Client Services**

	2018		2019				Increment	al Change
(In \$000s)	Approved Budget	Base	New / Enhanced	Total Staff Recommended Budget	Chan	iges	2020 Plan	2021 Plan
By Service	\$	\$	\$	\$	\$	%	\$	\$
Enterprise Planning &	Architecture	)						_
Gross Expenditures	9,165.2	4,914.0	356.8	5,270.8	(3,894.5)	(42.5%)	279.8	111.9
Revenue	2,017.2	787.7	0.0	787.7	(1,229.6)	(61.0%)	(308.4)	(16.1)
Net Expenditures	7,148.0	4,126.3	356.8	4,483.1	(2,664.9)	(37.3%)	588.1	127.9
Client Support, Advice	e & Consulta	tion						_
Gross Expenditures	15,208.9	18,796.4	182.8	18,979.2	3,770.3	24.8%	468.3	278.0
Revenue	2,652.0	3,746.5	0.0	3,746.5	1,094.5	41.3%	(948.6)	4.0
Net Expenditures	12,556.9	15,049.9	182.8	15,232.7	2,675.8	21.3%	1,416.9	274.0
IT Project Managemer	nt							_
Gross Expenditures	2,717.3	3,734.8	0.0	3,734.8	1,017.5	37.4%	147.9	81.8
Revenue	1,952.0	371.4	0.0	371.4	(1,580.5)	(81.0%)	0.0	0.0
Net Expenditures	765.3	3,363.4	0.0	3,363.4	2,598.0	339.5%	147.9	81.8
Total								
Gross Expenditures	27,091.5	27,445.3	539.5	27,984.8	893.3	3.3%	896.0	471.7
Revenue	6,621.2	4,905.6	0.0	4,905.6	(1,715.6)	(25.9%)	(1,256.9)	(12.1)
Total Net Expenditures	20,470.2	22,539.6	539.5	23,079.2	2,608.9	12.7%	2,153.0	483.7
Approved Positions	210.1	213.5	3.0	216.5	6.3	3.0%	(0.0)	0.0

#### 2019 Service Levels

#### **Business I&T Solution**

Activity	Туре	Service Level Description	Status	2016	2017	2018	2019
Solutions Implementation	Program and Service Management Solutions Development     Process Management Solutions Development     Enterprise Asset Management Solutions Development     Financial Management Solutions Development     Supply and Inventory Management Solutions Development     Rules Management Solutions Development     Property Stewardship Solutions Development	Support services provided during core business hours, Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)	Approved	Core business hours are Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)	Core business hours are Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)	100%	
	Risk Management Solutions Development     Customer Relationship Management Solutions Development     Senice Delivery Solutions Development     Human Resource Management Solutions Development     Information Management Solutions Development	Email Response within 2 business days 90% of the time	Actual	Email Response within 2 business days 90% of the time	Email Response within 2 business days 90% of the time		
Solutions Sustainment	Program and Senice Management Solutions Sustainment     Process Management Solutions Sustainment     Enterprise Asset Management Solutions Sustainment     Financial Management Solutions Sustainment     Supply and Inventory Management Solutions Sustainment     Rules Management Solutions Sustainment     Property Stewardship Solutions Sustainment	Support services provided during core business hours, Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)	Approved	Core business hours are Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)	Core business hours are Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)	100%	
	Risk Management Solutions Sustainment     Customer Relationship Management Solutions Sustainment     Service Delivery Solutions Sustainment     Human Resource Management Solutions Sustainment     Information Management Solutions Sustainment	Email Response within 2 business days 90% of the time	Actual	Email Response within 2 business days 90% of the time	Email Response within 2 business days 90% of the time		
	Business solution/application development	Support Services provided during core business hours, Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)	Approved	Core business hours are Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)	Core business hours are Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)	100%	
Components	Geospatial	Email Response within 2 business days 90% of the time	Actual	Email Response within 2 business days 90% of the time	Email Response within 2 business days 90% of the time		
Authoritative Data	Geographic Information dataset/map	Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays)	Approved	Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays)	Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays)	100%	
Custodianship	Geospatial/Location Data	Email Response within 2 business days 90 % of the time		Email Response within 2 business days 90 % of the time	Email Response within 2 business days 90 % of the time		
		Standard incident management targets or consultation per agreed work plan.	Actual	Standard incident management targets or consultation per agreed work plan.	Standard incident management targets or consultation per agreed work plan.		

## **Computer & Communications Technology Infrastructure**

Activity	Туре	Service Level Description	Status	2016	2017	2018	2019
	.,,,	Support Services provided during core business hours, Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).	Approved	Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).	Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).	100%	99.50%
	Telephone     Wireless Telecommunication & Devices	Email Response within 2 business days 90% of the time		Email Response within 2 business days 90% of the time	Email Response within 2 business days 90% of the time		
		Standard incident management targets	Actual	Standard incident management targets	Standard incident management targets	99.996%	
		Service availability is 24/7/365 excluding scheduled maintenance and releases		Service availability is 24/7/365 excluding scheduled maintenance and releases	Service availability is 24/7/365 excluding scheduled maintenance and releases		
		Support Services provided during core business hours, Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).	Approved	Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays). Email Response within 2	Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays). Email Response within 2	100%	99.50%
	Internet     Wireless Network	Email Response within 2 business days 90% of the time		business days 90% of the time	business days 90% of the time		
		Standard incident management targets	Actual	Standard incident management targets Service Availability 24/7/365 with 99%	Standard incident management targets Service Availability 24/7/365 with 99%	99.50%	
		Service Availability 24/7/365 with 99% up time		up time	up time		
nterprise Planning Architecture		Support Services provided during core business hours, Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)	Approved	Core business hours are Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)	Core business hours are Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)	100%	99.50%
x / Horntoctaro		Email Response within 2 business days 90% of the time	Арріочец	Email Response within 2 business days 90% of the time	Email Response within 2 business days 90% of the time	10070	33.3070
	Wired Network	Standard incident management targets. Service availability is 24/7/365 excluding		Standard incident management targets. Service availability is 24/7/365 excluding	Standard incident management targets. Service availability is 24/7/365 excluding		
		scheduled maintenance and releases 99.99% Availability between 9:00am –		scheduled maintenance and releases 99.99% Availability between 9:00am –	scheduled maintenance and releases 99.99% Availability between 9:00am –		
		5:00pm on business days.	Actual	5:00pm on business days.	5:00pm on business days.	99.50%	
		*Availability time excludes scheduled maintenance.		*Availability time excludes scheduled maintenance.	*Availability time excludes scheduled maintenance.		
		Support Services provided during core business hours, Monday to Friday 8:30am -4.30pm (excluding statutory holidays)	Approved	Support Services provided during core business hours, Monday to Friday 8:30am 4:30pm (excluding statutory holidays)	Support Services provided during core business hours, Monday to Friday 8:30am -4.30pm (excluding statutory holidays)	100%	99.95%
	Email     Enterprise Fax	Email Response within 2 business days 90% of the time		Email Response within 2 business days 90% of the time	Email Response within 2 business days 90% of the time		
		Standard incident management targets		Standard incident management targets	Standard incident management targets		
	Servi up tii	Service availability 24/7/365 with 98% up time (excluding scheduled maintenance)	Actual	Service availability 24/7/365 with 98% up time (excluding scheduled maintenance)	Service availability 24/7/365 with 98% up time (excluding scheduled maintenance)	99.999%	

## **Computer & Communications Technology Infrastructure (Continued)**

ion Platforms	Support Services provided during core business hours, Monday to Friday 3:30am – 4:30pm (excluding statutory holidays).  Email Response within 2 business days 90% of the time  Standard incident management targets Service availability is 24/7/365 excluding scheduled maintenance and releases  Core business hours are Monday to Friday  Core business hours are Monday to Friday  Language of the service of the service availability is 24/7/365 excluding scheduled maintenance and releases	Approved  Actual	90% of the time Standard incident management targets	Support Senices provided during core business hours, Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).  Email Response within 2 business days 90% of the time  Standard incident management targets  Service availability is 24/7/365 excluding scheduled maintenance and releases  Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).	100%	
Computing Hardware	90% of the time  Standard incident management targets  Senice availability is 24/7/365 excluding scheduled maintenance and releases  Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).  Email Response within 1 business day 90% of the time		90% of the time  Standard incident management targets  Service availability is 24/7/365 excluding scheduled maintenance and releases  Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).	90% of the time Standard incident management targets Senice availability is 24/7/365 excluding scheduled maintenance and releases  Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory		
Computing Hardware	Service availability is 24/7/365 excluding scheduled maintenance and releases  Core business hours are Monday to Friday 8:30am - 4:30pm (excluding statutory holidays).  Email Response within 1 business day 90% of the time		Service availability is 24/7/365 excluding scheduled maintenance and releases  Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).	Service availability is 24/7/365 excluding scheduled maintenance and releases  Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory		
Computing Hardware	Friday 8:30am – 4:30pm (excluding statutory holidays). Email Response within 1 business day 90% of the time	Approved	Friday 8:30am – 4:30pm (excluding statutory holidays).	Friday 8:30am – 4:30pm (excluding statutory		
	Standard incident management targets		90% of the time	Email Response within 1 business day 90% of the time	100%	
	Service Availability 24/7/365 with 99.50% up time (excluding scheduled maintenance)		Standard incident management targets Service Availability 24/7/365 with 99.50% up time (excluding scheduled maintenance)	Standard incident management targets Service Availability 24/7/365 with 99.50% up time (excluding scheduled maintenance)		
	On-site support 7:00am - 5:00pm on business days, with on-call support for off-hours.	Actual	On-site support 7:00am - 5:00pm on business days, with on-call support for off-hours.	On-site support 7:00am - 5:00pm on business days, with on-call support for off-hours.		
	Support Services provided during core business hours, Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).	Approved	Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).	Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).	100%	
Data Storage Platform	Email Response within 2 business days 90% of the time		Email Response within 2 business days 90% of the time	Email Response within 2 business days 90% of the time		
	Standard incident management targets Service availability 24/7/365 with 99.50% up time	Actual	Standard incident management targets Service availability 24/7/365 with 99.50% up time.	Standard incident management targets Service availability 24/7/365 with 99.50% up time.		
	Support Services provided during core business hours, Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).	Approved	Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).	Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).	100%	
	Email Response within 2 business days 90% of the time		Email Response within 2 business days 90% of the time	Email Response within 2 business days 90% of the time		
	Standard incident management targets.  Service Availability 24/7/365 with 99% up time	Actual	Standard incident management targets. Service Availability 24/7/365 with 99% up time	Standard incident management targets.  Service Availability 24/7/365 with 99% up time		
Supplusii 8:30 holid Client Computing Hardware Ema 90%	Support Services provided during core business hours, Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).	Approved	Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).	Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).	100%	
	Email Response within 2 business days 90% of the time	Actual	Email Response within 2 business days 90% of the time	Email Response within 2 business days 90% of the time		
se		Service availability 24/7/365 with 99.50% up time  Support Services provided during core business hours, Monday to Friday 8:30am - 4:30pm (excluding statutory holidays).  Email Response within 2 business days 90% of the time  Standard incident management targets.  Service Availability 24/7/365 with 99% up time  Support Services provided during core business hours, Monday to Friday 8:30am - 4:30pm (excluding statutory holidays).  Email Response within 2 business days 90% of the time	Senice availability 24/7/365 with 99.50% up time  Support Services provided during core business hours, Monday to Friday 8.30am – 4.30pm (excluding statutory holidays).  Printing & Peripherals  Email Response within 2 business days 90% of the time  Standard incident management targets.  Senice Availability 24/7/365 with 99% up time  Support Services provided during core business hours, Monday to Friday 8.30am – 4.30pm (excluding statutory holidays).  Approved housiness hours, Monday to Friday 8.30am – 4.30pm (excluding statutory holidays).	Service availability 24/7/365 with 99.50% up time  Support Services provided during core business hours, Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).  Printing & Peripherals  Email Response within 2 business days 90% of the time  Standard incident management targets.  Service Availability 24/7/365 with 99% up time  Standard incident management targets.  Service Availability 24/7/365 with 99% up time  Support Services provided during core business hours, Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).  Email Response within 2 business days 90% of the time  Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).  Service Availability 24/7/365 with 99% up time  Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).  Email Response within 2 business days 90% of the time  Approved business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).  Email Response within 2 business days 90% of the time  Actual Service Availability 24/7/365 with 99% up time  Lore business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).  Email Response within 2 business days 90% of the time  Approved business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays).  Email Response within 2 business days 90% of the time	Service availability 24/7/365 with 99.50% up time  Support Services provided during core business hours, Monday to Friday 8.30am – 4.30pm (excluding statutory holidays).  Printing & Peripherals  Email Response within 2 business days 90% of the time  Standard incident management targets. Service Availability 24/7/365 with 99% up time  Standard incident management targets. Service Availability 24/7/365 with 99% up time  Support Services provided during core business hours are Monday to Friday 8.30am – 4.30pm (excluding statutory holidays).  Email Response within 2 business days 90% of the time  Standard incident management targets. Service Availability 24/7/365 with 99% up time  Support Services provided during core business hours, Monday to Friday 8.30am – 4.30pm (excluding statutory holidays).  Actual  Support Services provided during core business hours, Monday to Friday 8.30am – 4.30pm (excluding statutory holidays).  Email Response within 2 business days 90% of the time  Core business hours are Monday to Friday 8.30am – 4.30pm (excluding statutory holidays).  Email Response within 2 business days 90% of the time  Core business hours are Monday to Friday 8.30am – 4.30pm (excluding statutory holidays).  Email Response within 2 business days 90% of the time  Core business hours are Monday to Friday 8.30am – 4.30pm (excluding statutory holidays).  Email Response within 2 business days 90% of the time  Email Response within 2 business days 90% of the time  Email Response within 2 business days 90% of the time  Email Response within 2 business days 90% of the time  Email Response within 2 business days 90% of the time	Service availability 24/7/365 with 99.50% up time  Support Services provided during core business hours, Monday to Friday 8.30am - 4.30pm (excluding statutory holidays).  Printing & Peripherals  Email Response within 2 business days 90% of the time  Standard incident management targets. Service Availability 24/7/365 with 99% up time  Support Services provided during core business hours are Monday to Friday 8.30am - 4.30pm (excluding statutory holidays).  Email Response within 2 business days 90% of the time  Standard incident management targets. Service Availability 24/7/365 with 99% up time  Support Services provided during core business hours, Monday to Friday 8.30am - 4.30pm (excluding statutory holidays).  Actual  Support Services provided during core business hours, Monday to Friday 8.30am - 4.30pm (excluding statutory holidays).  Approved 8.30am - 4.30pm (excluding statutory holidays).  Email Response within 2 business days 90% of the time  Approved 8.30am - 4.30pm (excluding statutory holidays).  Email Response within 2 business days 90% of the time  Approved 8.30am - 4.30pm (excluding statutory holidays).  Email Response within 2 business days 90% of the time  Email Response within 2 business days 90% of the time  Email Response within 2 business days 90% of the time  Email Response within 2 business days 90% of the time  Email Response within 2 business days 90% of the time  Email Response within 2 business days 90% of the time  Email Response within 2 business days 90% of the time  Email Response within 2 business days 90% of the time  Email Response within 2 business days 90% of the time

## **Enterprise IT Planning & Client Services**

Activity	Туре	Service Level Description	Status	2016	2017	2018	2019
	Enterprise Architecture – Blueprint     Portfolio Investment Management     Enterprise wide IT strategic plan - IT Strategic Planning	Support Services provided during core business hours, Monday to Friday 9:00am – 5:00pm (excluding statutory holidays).	Approved	Core business hours are Monday to Friday 9:00am – 5:00pm (excluding statutory holidays).	Core business hours are Monday to Friday 9:00am – 5:00pm (excluding statutory holidays).	100%	100%
Enterprise Planning & Architecture	IRT Division Business Strategy/Plan - IT Strategic Planning     Business Continuity Planning     Risk Assessments     IT Policies, Standards & Research	Email Response within 2 business days 90% of the time.  Consultation or per agreed work plan / In support of I&T services	Actual	Email Response within 2 business days 90% of the time.  Consultation or per agreed work plan / In support of I&T services	Email Response within 2 business days 90% of the time.  Consultation or per agreed work plan / In support of I&T services	100%	
		Support is available from the Senice Desk Mon-Fri 7:00a.m to 5:00 p.m. All other hours (evenings/overnight) and weekend/holidays, limited support is available. Response Targets: - Phone: 80% of Calls Answered within 1 minute - Voicemail: Response within 4 hours - E-Mail: Response within 48 hours Desktop Management (Workstations, Peripherals, Software) Support available	Approved	Support is available from the Service Desk Mon-Fri 7:00a.m to 5:00 p.m. All other hours (evenings/overnight) and weekend/holidays, limited support is available. Response Targets: - Phone: 80% of Calls Answered within 1 minute - Voicemail: Response within 4 hours - E-Mail: Response within 48 hours Desktop Management (Workstations, Peripherals, Software) Support available	Support is available from the Services Desk Mon-Fri 7:00a.m to 5:00 p.m. All other hours (evenings/overnight) and weekend/holidays, limited support is available. Response Targets: - Phone: 80% of Calls Answered within 1 minute - Voicemail: Response within 4 hours - E-Mail: Response within 48 hours Desktop Management (Workstations, Peripherals, Software) Support available	100%	80%
	Service Desk	Peripireas, Solivare Josphir available Mon-Fri 8:30 p.m. (excluding statutory holidays).  Both Senice Desk and Desktop Management incidents are prioritized and resolved in accordance within standard Incident Management (IM) Targets.  Standard Incident Management Resolution Targets:  Priority 1: 2 business hours (1 day) Priority 2: 8 business hours (3 days) Priority 4: 94 business hours (6 days)	Actual	Periphreas, Solivary Support available Mon-Fri 8:30 a.m. to 4:30 p.m. (excluding statutory holidays).  Both Senice Desk and Desktop Management incidents are prioritized and resolved in accordance within standard Incident Management (IM) Targets.  Standard Incident Management Resolution Targets:  Priority 1: 2 business hours (1 day) Priority 2: 8 business hours (3 days) Priority 4: 94 business hours (6 days)	Peripiterals, Sultware Josppolic available Mon-Fin 8:30 am. to 4:30 pm. (excluding statutory holidays).  Both Service Desk and Desktop Management incidents are prioritized and resolved in accordance within standard Incident Management (IM) Targets.  Standard Incident Management Resolution Targets:  Priority 1: 2 business hours (1 day) Priority 2: 8 business hours (3 days) Priority 4: 94 business hours (3 days)	72.37%	
Client Support, Advice & Consultation		Support Services provided during core business hours, Monday to Friday 9:00am – 5:00pm (excluding statutory holidays).	Approved	Core business hours are Monday to Friday 9:00am – 5:00pm (excluding statutory holidays).	Core business hours are Monday to Friday 9:00am – 5:00pm (excluding statutory holidays).	100%	100%
	Business Process Analysis and Design	Email Response within 2 business days 90% of the time.  Consultation or per agreed work plan	Actual	Email Response within 2 business days 90% of the time.  Consultation or per agreed work plan	Email Response within 2 business days 90% of the time.  Consultation or per agreed work plan	100%	
	Client Relationship Management	Support Services provided during core business hours, Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)  Email Response within 2 business days	Approved	Core business hours are Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)  Email Response within 2 business days	Core business hours are Monday to Friday 9 00am – 5:00pm (excluding statutory holidays) Email Response within 2 business days	100%	100%
		90% of the time Escalations within 1 business day 90% of the time Consultation or per agreed work plan	Actual	90% of the time Escalations within 1 business day 90% of the time Consultation or per agreed work plan	90% of the time Escalations within 1 business day 90% of the time Consultation or per agreed work plan	100%	
	Business Requirement Analysis     Business Case Co-ordination	Support Services provided during core business hours, Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)	Approved	Core business hours are Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)	Core business hours are Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)	100%	100%
	IT Consultation & Facilitation	Email Response within 2 business days 90% of the time	Actual	Email Response within 2 business days 90% of the time	Email Response within 2 business days 90% of the time	100%	

## **Enterprise IT Planning & Client Services (Continued)**

Activity	Туре	Service Level Description	Status	2016	2017	2018	2019
	Service Level Management	Support Services provided during core business hours, Monday to Friday 8:30am – 4:30pm (excluding statutory holidays)	Approved	Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays)	Core business hours are Monday to Friday 8:30am – 4:30pm (excluding statutory holidays)	100%	100%
		Email Response within 2 business days 90% of the time	Actual	Email Response within 2 business days 90% of the time	Email Response within 2 business days 90% of the time	100%	
		Support Services provided during core	Approved	Core business hours are Monday to	Core business hours are Monday to	100%	100%
Client Support, Advice & Consultation	IT Contract Management	business hours, Monday to Friday 8:30am – 4:30pm (excluding statutory holidays). Email Response within 2 business days 90% of the time.	Actual	Friday 8:30am – 4:30pm (excluding statutory holidays). Email Response within 2 business days 90% of the time.	Friday 8:30am – 4:30pm (excluding statutory holidays).	98%	
	IT Training & Education	Core business hours: Monday – Friday 8:30am – 4:30pm (excluding weekends and holidays) Email Response within 2 business days	Approved	and holidays) Email Response within 2 business days		100%	100%
		90% of the time Per agreed work plan / schedule 99.00% Availability between 8:30am - 4:30pm	Actual	90% of the time Per agreed work plan / schedule 99.00% Availability between 8:30am - 4:30pm	90% of the time Per agreed work plan / schedule 99.00% Availability between 8:30am - 4:30pm	100%	
IT Project Management	Il Project Management Services Il Project Management Expertise & Support Il Droject Management Mudnelpoise, and Tools Il Droject Management Mudnelpoise, and Tools	Support Services provided during core business hours, Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)	Approved	Core business hours are Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)	Core business hours are Monday to Friday 9:00am – 5:00pm (excluding statutory holidays)	100%	
	IT Project Management Methodologies and Tools     En	Email Response within 2 business days 90% of the time	Actual	Email Response within 2 business days 90% of the time	Email Response within 2 business days 90% of the time		

# **Summary of 2019 Service Changes**

			Service (	Changes			Total S	ervice Cha	anges		ncrementa	al Change		
		Business IT Solutions C					rise IT   & Client	\$	\$	#	2020 Plan		2021	Plan
Description (\$000s)	Gross	Net	Gross	Net	Gross	Net	Gross	Net	Pos.	Net	Pos.	Net	Pos.	
Base Changes:														
Base Expenditure Changes														
Physical Server Consolidation using Virtual Environments			(36.9)	(36.9)			(36.9)	(36.9)						
Optimize & Rationalize App Development in City Divisions					(1,324.7)	(1,324.7)	(1,324.7)	(1,324.7)						
Sub-Total			(36.9)	(36.9)	(1,324.7)	(1,324.7)	(1,361.6)	(1,361.6)						
Service Efficiencies														
Savings from Decommissioning Older Technology/Sourcing Internal Service Delivery	(474.3)	(474.3)	(298.6)	(298.6)			(773.0)	(773.0)						
Sub-Total	(474.3)	(474.3)	(298.6)	(298.6)			(773.0)	(773.0)						
Total 2019 Service Changes	(474.3)	(474.3)	(335.5)	(335.5)	(1,324.7)	(1,324.7)	(2,134.6)	(2,134.6)						



# 2019 Operating Budget - Staff Recommended Service Changes Summary by Service (\$000's)

Form ID	Corporato Sorvicos		Adjustm	ents			
Category Equity Impact	Corporate Services  Program - Information & Technology	Gross Expenditure	Revenue	Net	Approved Positions	2020 Plan Net Change	2021 Plan Net Change
2019 Staff Reco	mmended Base Budget Before Service Changes:	135,303.6	54,568.5	80,735.0	857.00	3,586.4	1,104.7

17206 Positive **Description**:

Reduction - OpenText Web Content Management - Equity Impact

OpenText WCM for Website Development (toronto.ca) has been decommissioned and replaced by Wordpress (OpenSource) for free Web Content Management Solution (WCM) / toronto.ca / WordPress + All Front-End Applications. Transition from OpenText to WordPress Open Source eliminates need to pay software maintenance on the WCM platform

#### **Service Level Impact:**

N/A

#### **Equity Statement:**

The City of Toronto launched the new toronto.ca website in December 2017, migrating from Open Text to WordPress, and the associated budget reduction proposal's equity impact is medium positive. As a result, Persons with Disabilities' access to information about City of Toronto programs, services, initiatives and events will be positively impacted. By using the WordPress platform, the City is able to support an "Accessible by Design" approach to publishing web content that conforms to the Web Content Accessibility Guidelines (WCAG) 2.0 Level AA. This allows the public, regardless of ability, to have the opportunity to more easily connect and engage with the City and its services. A post-launch survey of the public, including people from a variety of equity-seeking groups and abilities, confirmed a ninety-eight (98) percent (%) satisfaction rate.

Service: Business IT Solutions

**Total Staff Recommended Changes:** (31.8)0.0 (31.8)0.00 0.0 0.0 **Staff Recommended Service Changes:** (31.8)0.0 (31.8)0.00 0.0 0.0

17115

Reduction - Realized through sourcing /internal delivery

No Impact Description:

Reviewing licenses and hardware for efficiency savings. Currently, there are applications that have excess licenses based on existing usage loads. In addition, savings are possible by migrating and/or consolidating software to lower cost hardware/infrastructure.

#### **Service Level Impact:**

N/A



# 2019 Operating Budget - Staff Recommended Service Changes Summary by Service (\$000's)

Fo	rm ID	- Corporate Services		Adjustr	ments				
Category	Equity Impact	Program - Information & Technology	Gross Expenditure	Revenue	Net	Approved Positions	2020 Plan Net Change	2021 Plan Net Change	
		Equity Statement:		<u> </u>	<u> </u>				
		The proposal is unlikely to have an equity impact.							
		Service: Business IT Solutions							
		Total Staff Recommended Changes:	(164.5)	0.0	(164.5)	0.00	0.0	0.0	
		Service: Computer & Communications Technology	Infrastructure						
		Total Staff Recommended Changes:	(91.9)	0.0	(91.9)	0.00	0.0	0.0	
		Staff Recommended Service Changes:	(256.3)	0.0	(256.3)	0.00	0.0	0.0	

17116

Reduction - Realized By Decommissioning Older (EOL) Tech

No Impact Description:

Decommissioning of old software and hardware as well as services that are no longer required. Currently, I&T incur costs for licenses, maintenance and paid services to support the City's technology users. After completing an internal review, I&T have found several applications, infrastructure and services that are no longer required. The result is a savings of costs arising from the ongoing use, support and maintenance of these items.

#### **Service Level Impact:**

None.

#### **Equity Statement:**

The proposal is unlikely to have an equity impact.

**Staff Recommended Service Changes:** 

Service: Business IT Solutions

Total Staff Recommended Changes: (278.1)0.0 (278.1)0.00 0.0 0.0

Service: Computer & Communications Technology Infrastructure

**Total Staff Recommended Changes:** 0.00 0.0 0.0 (206.8)0.0 (206.8)

0.0

(484.9)

0.00

0.0

0.0

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(484.9)



# 2019 Operating Budget - Staff Recommended Service Changes Summary by Service (\$000's)

Fo	orm ID	Composeto Somiliano		Adjust	tments			
Category	Equity Impact	Corporate Services Program - Information & Technology	Gross Expenditure	Revenue	Net	Approved Positions	2020 Plan Net Change	2021 Plan Net Change
	7117	Reduction - Server Consolidation Through Virtualizati	ion					

Reduction - Server Consolidation Through Virtualization

No Impact Description:

I&T has adopted a virtual first strategy since 2010 for server provisioning to reduce the number of physical servers by virtualization where each virtual server acts like a unique physical device, capable of running its own operating system. Typical virtual servers are only option provided for net new or replacement servers unless there are technical or business reasons not supporting virtualization. Server consolidation through virtualization have generally become more cost effective than traditional physical servers, but there are exceptions. Incremental savings due to server consolidation and virtualization, where applicable, have been included in the operating budget submission in past years. The plan is continue to target remaining physical servers to be replaced with virtual servers and increase the virtualization ratio.

#### **Service Level Impact:**

N/A

#### **Equity Statement:**

The proposal is unlikely to have an equity impact.

**Service:** Computer & Communications Technology Infrastructure

**Total Staff Recommended Changes:** 

(36.9)

(36.9)

(36.9)

0.00

0.00

0.0

0.0

**Staff Recommended Service Changes:** 

(36.9)

0.0

0.0

0.0

0.0

Optimize&Rationalize App/Development in CityDivisions 17169 51 No Impact **Description:** 

> In 2018, I&T completed a City-wide IT Industry Benchmark study, conducted by Gartner Inc., to examine City-wide budget and staffing levels across industry standard IT functions and in comparison to public and private sector peer organizations. The study identified that City-wide IT was generally in alignment to IT budget and staffing allocations in comparison to peer organizations; however the allocation of budget and staffing to IT application development and support functions was identified for further review having been found slightly higher than industry average/comparisons. Utilizing the IT Benchmark study, I&T has identified an opportunity to consolidate City-wide application development and support to achieve synergy and savings, representing a 4.2% reduction in the budget allocated to divisional IT application development and support functions. In order to realize these savings of \$1.325 million, I&T is undertaking an overall City-wide IT Operating Model review in 2019. In parallel, the I&T division will be undertaking an application roadmap review which in future will determine potential opportunities to further rationalize/optimize IT assets.

#### **Service Level Impact:**

To be assessed



# 2019 Operating Budget - Staff Recommended Service Changes Summary by Service (\$000's)

Fo	rm ID	Composeto Comisso		Adjust	ments			
Category	Equity Impact	Corporate Services  Program - Information & Technology	Gross Expenditure	Revenue	Net	Approved Positions	2020 Plan Net Change	2021 Plan Net Change
		Equity Statement:						
		To be assessed						
		Service: Enterprise IT Planning & Client Services						
		Total Staff Recommended Changes:	(1,324.7)	0.0	(1,324.7)	0.00	0.0	0.0
		Staff Recommended Service Changes:	(1,324.7)	0.0	(1,324.7)	0.00	0.0	0.0
Sum	mary:							
Staf	f Recor	mmended Service Changes:	(2,134.6)	0.0	(2,134.6)	0.00	0.0	0.0
Sta	ff Reco	ommended Base Budget:	133,169.0	54,568.5	78,600.4	857.00	3,586.4	1,104.7

# Summary of 2019 New / Enhanced Service Priorities

		New and	Enhance	d Services	Priorities	3	Total			Incremental Change			e
			Comp	uter &	Enterp	rise IT							
	Busin	ess IT	Commu	nications	Plann	ing &							
New / Enhanced Service Description	Solu	tions	Techi	nology	Client S	ervices	\$	\$	Position	2020	Plan	2021	Plan
(in \$000s)	Gross	Net	Gross	Net	Gross	Net	Gross	Net	#	Net	Pos.	Net	Pos.
Enhanced Service Priorities													
Council Directed:													
Risk Management Cyber Security & Compliance					230.3	230.3	230.3	230.3	2.0	82.2		8.0	
Sub-Total Council Directed					230.3	230.3	230.3	230.3	2.0	82.2		8.0	
Staff Initiated:													
Cyber Security Awareness (AG)					309.2	309.2	309.2	309.2	1.0	38.4		13.7	
Sub-Total Staff Initiated					309.2	309.2	309.2	309.2	1.0	38.4		13.7	
Total Enhanced Services					539.5	539.5	539.5	539.5	3.0	120.7		21.7	
New Service Priorities													
Total 2019 New / Enhanced Services					539.5	539.5	539.5	539.5	3.0	120.7		21.7	



# 2019 Operating Budget - Staff Recommended New and Enhanced Services Summary by Service (\$000's)

F	orm ID	Composed Somilion		Adjust	tments			
Category	Equity	Corporate Services  Program - Information & Technology	Gross Expenditure	Revenue	Net	Approved Positions	2020 Plan Net Change	2021 Plan Net Change
1	16695	Cyber Security Awareness (AG)						

Cyber Security Awareness (AG)

72 No Impact Description:

> Response to Auditor General report titled Audit of Information Technology Vulnerability and Penetration Testing - Phase II: Internal Penetration Testing, Part 1 - Accessibility of Network and Servers

**Service Level Impact:** 

to be assessed

**Equity Statement:** 

None.

Service: Enterprise IT Planning & Client Services

**Total Staff Recommended Changes:** 

309.2

309.2

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0.0

0.0

309.2

309.2

1.00

1.00

38.4

38.4

13.7

13.7

Staff Recommended New/Enhanced Services:

16697

Risk Management Cyber Security & Compliance

72 No Impact Description:



# 2019 Operating Budget - Staff Recommended New and Enhanced Services Summary by Service (\$000's)

Form ID	Corporate Services		Adjusti	ments			
Category Equity Impact	Program - Information & Technology	Gross Expenditure	Revenue	Net	Approved Positions	2020 Plan Net Change	2021 Plan Net Change

Since 2006, when the Personal Information Assessment (PIA) function was first established, the City has been is getting into more complex service delivery models with cloud services and adopting new technologies that involve the collection of personally identifiable information (PII), or sharing PII with third parties in new ways or across divisional boundaries. The division needs to address this key area in an effective manner to meet our obligations to effectively support initiatives in managing legislated privacy. Below is a sample of major initiatives in 2018 & 2019 where privacy. resources are required:a) City Clerk's business systems improvements (T-Recs / Open Text, Amanda 7 FOI tracking, Privacy Management);b) Human Services Integration (Children's Services, Employment & Social Services, Shelter Services & Housing Administration); c) Salesforce CRM (Corporate IT, 311 e-CRM); d) ML&S Digitization;e) TESS Paperless Office; f) Long Term Care Homes - Electronic Health Care Records; g) PF&R CLASS Replacement; h) PF&R Volunteer Management Solution; i) Chief Transformation Officer projects (Smart Cities initiative, Waterfront Secretariat - Sidewalk Labs);i) Governance and Risk Management in Cloud Services, Data Analytics and Data Sharing activities between program areas and external parties. The division needs to address this key area in an effective manner to meet our obligations to effectively support initiatives in managing legislated privacy requirements. The RMCSC unit in the corporate Information and Technology Division requires the addition of two (2.0 FTE) permanent Senior Privacy Specialist resources to assist with the volume of work being undertaken in corporate I&T and other divisions. In addition, this business case aligns to support operational processes including project governance, such as IT Project Review Team reviews of projects privacy compliance, Cloud Computing Framework reviews, and procurement processes such as RFP development, evaluations, and contract negotiations. Privacy resources provide expert advice at different stages of projects, for example at the planning and procurement stages, and during implementation.

#### **Service Level Impact:**

To manage significant demand for Privacy Impact Assessments – annual demand of approx. 35 assessments, 10 funded through capital projects. Each resource can address approximately 3-4 PIAs per year for complex initiatives – resources are also involved in Privacy consultations (not full PIA assessments). Privacy Impact Assessments address risk to ensure privacy requirements (MFIPPA) are addressed and mitigated as solutions/ enhancements are deployed. When a PIA is done, staff identify where PII is in the business process and how it should be protected. They also educate the program area on what they need to keep secure and confidential, make recommendations on accountability for that information, and train staff on what needs to be protected. PIAs provide senior management with early warning if a project has a major privacy compliance issue and makes recommendations to avoid or mitigate privacy issues before a breach occurs and the public is affected, thus protecting the City's reputation. PIAs also ensure openness and transparency by ensuring that systems are designed with PII protected but all other information is open and available to the public.

#### **Equity Statement:**

N/A

**Service:** Enterprise IT Planning & Client Services

Total Staff Recommended Changes: 230.3 0.0 230.3 2.00 82.2 8.0

Category:

71 - Operating Impact of New Capital Projects 74 - New Services

72 - Enhanced Services-Service Expansion

75 - New Revenues



# 2019 Operating Budget - Staff Recommended New and Enhanced Services Summary by Service (\$000's)

Fo	rm ID	Cornorato Somilado		Adjustn	nents			
Category	Equity Impact	Corporate Services  Program - Information & Technology	Gross Expenditure	Revenue	Net	Approved Positions	2020 Plan Net Change	2021 Plan Net Change
		Staff Recommended New/Enhanced Services:	230.3	0.0	230.3	2.00	82.2	8.0
Sum	mary:							
Staf	f Recor	mmended New / Enhanced Services:	539.5	0.0	539.5	3.00	120.7	21.7

Page 3 of 3

72 - Enhanced Services-Service Expansion

75 - New Revenues

# 2019 User Fee Rate Changes Table 6a

# **User Fees Adjusted for Inflation and Other**

				2018	20 <sup>-</sup>	19	2020	2021
				2010	Inflationary	13	2020	2021
		Fee		Approved	Adjusted	Budget	Plan	Plan
Rate Description	Service	Category	Fee Basis		Rate	Rate	Rate	Rate
Property data map	Information &						_	
(1:4,000)	Technology	Recovery	Per map	\$4.65	\$0.07	\$4.72	\$4.83	\$4.93
Paper index map								
illustrating the boundaries of the PDM	Information &	Full Cost						
maps	Technology	Recovery	Per map	\$28.99	\$0.43	\$29.42	\$30.10	\$30.76
тарз	recririology	recovery	1 Ci map	ψ20.00	ψ0.40	Ψ25.72	ψου.10	Ψ00.70
Property data map	Information &	Full Cost						
(1:2,000)	Technology	Recovery	Per map	\$6.94	\$0.10	\$7.04	\$7.21	\$7.36
Municipal map book-	Information &	Full Cost						
1:4,000	Technology	Recovery	Book	\$46.39	\$0.70	\$47.09	\$48.17	\$49.23
Municipal map book	Information &		Dan	£460.07	<b>CO 44</b>	C4C4 04	£4.00.00	<b>#470.04</b>
set - 1:4,000 Set of four property	Technology	Recovery	Per map	\$162.37	\$2.44	\$164.81	\$168.60	\$172.31
data map district book -	Information &	Full Cost						
1:2,000	Technology	Recovery	Per map	\$1,507.55	\$22.61	\$1,530.16	\$1,565.36	\$1,599.79
Electronic pdf	roomiology	recovery	- Or map	ψ1,007.00	ΨΖΖ.01	Ψ1,000.10	ψ1,000.00	Ψ1,000.70
municipal map book	Information &	Full Cost						
set	Technology	Recovery	Per map	\$162.37	\$2.44	\$164.81	\$168.60	\$172.31
Community council								
boundaries & electoral	Information &	Full Cost						
wards map - 11"x17"	Technology	Recovery	Per map	\$11.59	\$0.17	\$11.76	\$12.03	\$12.30
Community council								
boundaries & electoral	Information &			0.17.40	<b>*</b> 0.00	0.17.00	<b>*</b> 40.07	010.10
wards maps - 24"x36	Technology	Recovery	Per map	\$17.40	\$0.26	\$17.66	\$18.07	\$18.46
Community council boundaries & electoral	Information &	Full Cost						
wards map - 36"x70"	Technology	Recovery	Per map	\$28.99	\$0.43	\$29.42	\$30.10	\$30.76
36"x60" Paper or PDF	recririology	recovery	1 Ci map	ψ20.00	ψ0.40	Ψ25.72	ψου.10	Ψ00.70
map at 1:30,000 scale	Information &	Full Cost						
or provide non-ge	Technology	Recovery	Per map	\$28.99	\$0.43	\$29.42	\$30.10	\$30.76
Provide paper or							·	
electronic PDF Ward	Information &	Full Cost						
maps - 36"x26"	Technology	Recovery	Per map	\$6.94	\$0.10	\$7.04	\$7.21	\$7.36
Provide paper or								
electronic PDF Ward	Information &		D	<b>05.70</b>	<b>#</b> 0.00	<b>#</b> F 00	<b>#</b> 0.04	00.44
maps - 11"x17". Aerial photo	Technology	Recovery	Per map	\$5.79	\$0.09	\$5.88	\$6.01	\$6.14
•	Information &	Full Cost						
enlargement (letter sized)	Technology	Recovery	Print	\$5.79	\$0.09	\$5.88	\$6.01	\$6.14
31260)	recrirology	recovery	1 11111	ψ5.7 9	Ψ0.03	ψυ.υυ	ψ0.01	Ψ0.14
Aerial photo	Information &	Full Cost						
enlargement - 11"x17"	Technology	Recovery	Print	\$8.13	\$0.12	\$8.25	\$8.44	\$8.63
								· · · · · · · · · · · · · · · · · · ·
Electronic property	Information &	Full Cost						
data maps	Technology	Recovery	Per map	\$115.98	\$1.74	\$117.72	\$120.43	\$123.08
ESM topographic	l							
mapping ( electronic	Information &		0 14	00.17.55	<b>A- 0-</b>	005041	<b>#064.66</b>	<b>#</b> 000 10
CAD). Digital terrain model,	Technology	Recovery	Sq Km.	\$347.89	\$5.22	\$353.11	\$361.23	\$369.18
full resolution electronic	Information 9	Full Cost						
maps.	Technology	Recovery	Sq Km.	\$289.91	\$4.35	\$294.26	\$301.03	\$307.65
пиро.	recimology	INCOUVERY	Joy IXIII.	Ψ203.31	ψ4.33	ψ234.20	ψ501.03	ψ301.03

				2018	20	19	2020	2021
					Inflationary			
		Fee		Approved	Adjusted	Budget	Plan	Plan
Rate Description	Service	Category	Fee Basis	Rate	Rate	Rate	Rate	Rate
Parcel mapping	Information &							
(electronic)	Technology	Recovery	Sq Km.	\$139.16	\$2.09	\$141.25	\$144.50	\$147.68
Orthoimage 0.075m								
resolution quad tiles	Information &			000.00	00.40	000.40	00040	<b>#</b> 00 <b>7</b> 0
(electronic)	Technology	Recovery	Image Tile	\$28.99	\$0.43	\$29.42	\$30.10	\$30.76
Orthoimages 0.30	lafa was ati a w 0	E. II Caat						
resolution electronic	Information &		Imaga Tila	<b>¢</b> E7.00	ΦO 07	<b>\$50.05</b>	¢60.20	\$61.53
maps.	Technology	Recovery	Image Tile	\$57.98	\$0.87	\$58.85	\$60.20	\$01.03
Electronic images of 2003 aerial photos	Information &	Full Cost						
(black & white 1:6,0	Technology		Imaga Tilo	\$17.40	\$0.26	\$17.66	\$18.07	\$18.46
(DIACK & WITHE 1.0,0	reclinology	Recovery	Image Tile	\$17.40	φυ.26	\$17.00	φ10.07	φ10.40
Create enterpise								
stereoscopic electronic			Per					
models	Information &	Full Cost	Transactio					
DVP - 2003	Technology	Recovery	n	\$57.98	\$0.87	\$58.85	\$60.20	\$61.53
Ravine Ward Map				ψσσσ	Ψ0.0.	ψσσ.σσ	Ψσσ.2σ	Ψ01.00
11"x17" PDF or Paper	Information &	Full Cost						
drawing	Technology	Recovery	Per map	\$11.59	\$0.17	\$11.76	\$12.03	\$12.30
Ravine By-Law Maps	, , , , ,	,		,	, -	, -	*	,
11"x17" PDF or Paper	Information &	Full Cost						
drawing	Technology	Recovery	Per map	\$4.64	\$0.07	\$4.71	\$4.82	\$4.92
				·		i i	·	
Provides Digital or	Information &	Full Cost						
Paper drawing	Technology	Recovery	Case	\$75.37	\$1.13	\$76.50	\$78.26	\$79.98
Archival former Toronto	Information &	Full Cost						
topographic map, 1985	Technology	Recovery	Per map	\$6.94	\$0.10	\$7.04	\$7.21	\$7.36
Electoral Ward								
Boundaries (Paper or	Information &	Full Cost						
PDF)	Technology	Recovery	Per map	\$28.99	\$0.43	\$29.42	\$30.10	\$30.76
File formats - ESRI								
Shape File, DGN,								
DWG, DXF (per	Information &							
dataset)	Technology	Recovery	Set	\$1,507.55	\$22.61	\$1,530.16	\$1,565.36	\$1,599.79
File formats - ESRI			_					
Shape File, DGN,			Per					
DWG, DXF (per	Information &	Full Cost	Transactio					
feature)	Technology	Recovery	n	\$376.89	\$5.65	\$382.54	\$391.34	\$399.95
The Display M								
The District Maps cover		F. 11 O - 1						
one City of Toronto	Information &		_	0.47.40	<b>#</b> 0.00	0.47.00	040.07	040.40
District Service	Technology	Recovery	Per map	\$17.40	\$0.26	\$17.66	\$18.07	\$18.46
DDM oot Ctroot								
PDM set, Street	Information 9	Full Coot						
Centreline TCL, Terrain			Dookses	<b>#2.240.00</b>	¢0.4.70	<b>#0.054.00</b>	<b>60 400 00</b>	<b>CO 404 00</b>
Model & Orthoimagery	Technology	Recovery	Package	\$2,319.29	\$34.79	\$2,354.08	\$2,408.22	\$2,461.20

# 2019 Capital Budget; 2020 - 2028 Capital Plan Including Carry Forward Funding

(In \$000s)	Total App'd Cash Flows to Date*	2019 Budget	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan	2026 Plan	2027 Plan	2028 Plan	2019 - 2028 Total	Total Project Cost
Total Expenditures by Category													
Legislated													
AODA Compliance for City Applications	1,383	1,969	884	320	-	-	-	-	-	-	-	3,173	3,173
EDHR - Complaints Management System	-	300	15	15	15	-	-	-	-	-	-	345	345
Sub-Total	1,383	2,269	899	335	15	-	-	-	-	-	-	3,518	3,518
State of Good Repair													
Business Applications Service Monitoring	_	150	150	280	_	_	_	_	_	_	_	580	_
Business Continuity	-	585	140	140	-	-	-	-	-	-	-	865	-
Capital Portfolio Resource Requirement	-	144	-	-	-	-	-	-	-	-	-	144	-
Capital Portfolio Resource Requirements	-	2,749	-	-	-	-	-	-	-	-	-	2,749	-
Desktop Hardware Replacement	-	9,166	4,747	8,732	9,099	12,647	8,020	5,267	9,833	10,205	14,006	91,722	-
Desktop Software Replacement		1,367	14,016	363	201	203	1,322	15,408	390	211	213	33,694	-
DIRECTORY SERVICES - Implementation	523	1,203 876	706	924	1.050	1.050	1 202	-	-	-	-	2,833	2,833
Disaster Recovery Disaster Recovery Pgm. (Prev. BCP)	37,960	716	1,050	1,050	1,050	1,050	1,302	-	-	-	-	6,378 716	37,960 716
DLAN Cloud Services Implementation	165	165										165	165
Domino Decommissioning Strat & Implementation	3,668	846	_	_	_	_	_	_	_	_	_	846	3,668
Enterprise Server Replacement	-,	2,309	2,269	2,229	2,189	2,350	2,350	2,350	2,350	2,350	2,350	23,096	-,
Enterprise Software Replacement	-	1,159	637	637	687	1,087	1,187	1,187	1,187	1,187	1,187	10,142	-
Enterprise Solution Delivery Management Framework	2,085	45	-	-	-	-	-	-	-	-	-	45	2,085
Enterprise Storage Replacement	-	1,083	1,800	950	1,000	950	1,300	1,200	1,000	975	975	11,233	-
File Services Migration	455	586	170	549	-	-	-	-	-	-	-	1,305	1,305
Geospatial Tool Enhancements	250	253	82	100	-	-	-	-	-	-	-	435	435
IBMS Review & Transformation	3,300	1,898	2,087	1,701	-	-	-	-	-	-	-	5,686	5,686
Integrated Business Mgmt System - Review and Trans IT Risk Mgmt Framework	5,189	1,070	379	-	-	-	-	-	-	-	-	379 1,070	379 5,189
Network Asset Replacement	5,169	4,563	3,880	3,050	3,410	3,630	3,330	2,730	3,280	2,910	3,330	34,113	5, 169
Network Security Replacement	_	505	870	964	488	592	396	1,041	905	460	615	6,836	_
Project Portfolio Management System (SOGR)	_	465	900	400	400	400	-	-,0	-	-	-	2,565	2,565
Quality Assurance Testing Software Supgrade		200	-	-	-	-	-	-	-	-	-	200	200
Quality Assurance Testing Software Upgrade	2,069	75	500	225	200	-	-	-	-	-	-	1,000	2,144
SAP Solution Manager v7.2 Upgrade (SOGR)		564	-	-	-	-	-	-	-	-	-	564	
TEMS REPLACEMENT-Design	150	450	-	-	-	-	-	-	-	-	-	450	450
Wellbeing Toronto v3 2018	450	450			-		-	-		-	-	450	450
Sub-Total	56,264	33,642	34,383	22,294	18,724	22,909	19,207	29,183	18,945	18,298	22,676	240,261	66,230
Service Improvement													
Application Portfolio Tools & Rationalization	1,387	-	-	118	-	-	-	-	-	-	-	118	1,387
Artificial Intelligence (AI) for SSHA and TPH	4 005	500	2,500	-	-	-	-	-	-	-	-	3,000	3,000
Asset Management Solution - Transportation	1,395	835	-	-	-	-	-	-	-	-	-	835	1,395
Business Sys Improvements - ECS Phase 2 CAPITAL PROJECT PLANNING SYS ENHANCEMENTS	300	455 81	-	-	-	-	-	-	-	-	-	455 81	455
CloudBasedHumanResourcesInformationSystem (CHRIS		5,334	562			]						5,896	5,896
Corporate Geospatial Strategy Roadmap Implementati	1 -	309	1,125	826	730	_	_	_	_	_	_	2,990	2,990
ECS Capital Project and Program Management Process	446	82	-, 120	-	-	-	-	-	-	-	-	82	446
ECS Cloud Deployment-Construction Project and DMS	-	568	785	2,151	1,164	-	-	-	-	-	-	4,668	4,668
Electronic Service Delivery Portal-Bldg Permits	3,708	1,175	-	-	-	-	-	-	-	-	-	1,175	3,708
Employee Performance Management (e	-	-	546	762	-	-	-	-	-	-	-	1,308	1,308
Ent Doc & Record Mgmt Solution (ED-CHANGE IN SCOR	- 1	750	-	-	-		-	-	-	-	-	750	750
Ent Portfolio & Project Mgmt Upgrade 2021	-	-		-	150	152	152	167	167	167	167	1,122	-
Enterprise Business Intelligence Implementation	1,698	1,802	1,585	-	-	-	-	-	-	-	-	3,387	3,387
Enterprise Collaboration Foundation Enterprise Documents and Records Management Phase2	2,419	3,650 1,375	-	-	-	-	-	-	-	-	-	3,650 1,375	3,650 1,375
Enterprise eLearning HR	3,090	281										281	3,090
Enterprise eLearning Initiative (ELI) Agreement	3,030	277										277	277
eRecruitment						_	_	-	-	_	-	4,597	8,670
	5,208	4,034	563	-	-	-							
eTime Enterprise Rollout	5,208 1,623	4,034 1,441	563 -	-	-	]	-	-	-	-	-	1,441	1,623
eTime Enterprise Rollout eTime Scheduling Enterprise Rollout			563 - -	-	-	-	-	-	-	-	-	1,441 1,970	1,623 16,920
eTime Scheduling Enterprise Rollout HR ELECTRONIC SKILLS ASS. SOLUTION	1,623	1,441	563 - - -	- - -	-	-	- - -	- - -	- - -	- - -	- - -		
eTime Scheduling Enterprise Rollout HR ELECTRONIC SKILLS ASS. SOLUTION Work Mgmt Solution-Transportation Scope Change	1,623 14,950	1,441 1,970 86	563 - - - -	- - - -	-	-	- - -	- - -	- - -	- - -	- - -	1,970 86 -	16,920 654 -
eTime Scheduling Enterprise Rollout HR ELECTRONIC SKILLS ASS. SOLUTION Work Mgmt Solution-Transportation Scope Change HR Labour Relations Information System (LRIS)	1,623 14,950	1,441 1,970 86 - 505	-	- - - -		-	- - - -	- - - -	- - - -	- - - -	- - - -	1,970 86 - 505	16,920 654 - 505
eTime Scheduling Enterprise Rollout HR ELECTRONIC SKILLS ASS. SOLUTION Work Mgmt Solution-Transportation Scope Change HR Labour Relations Information System (LRIS) Internal Private Cloud Services	1,623 14,950	1,441 1,970 86 - 505 1,533	563 - - - - - 1,777	-	- - - - -	-	-	- - - - -	- - - -	- - - - -	- - - -	1,970 86 - 505 3,310	16,920 654 - 505 3,310
eTime Scheduling Enterprise Rollout HR ELECTRONIC SKILLS ASS. SOLUTION Work Mgmt Solution-Transportation Scope Change HR Labour Relations Information System (LRIS) Internal Private Cloud Services IT Audit Project Health Check Framework	1,623 14,950 654	1,441 1,970 86 - 505 1,533 130	1,777	-	- - - - -	-	-	- - - - -	- - - -	- - - - -	- - - -	1,970 86 - 505 3,310 130	16,920 654 - 505 3,310 130
eTime Scheduling Enterprise Rollout HR ELECTRONIC SKILLS ASS. SOLUTION Work Mgmt Solution-Transportation Scope Change HR Labour Relations Information System (LRIS) Internal Private Cloud Services IT Audit Project Health Check Framework MLS Centralized Datamart	1,623 14,950 654 - - - 4,597	1,441 1,970 86 - 505 1,533 130 1,376	1,777 - 1,800	-	-	-	-	- - - - -	-	- - - - - -	-	1,970 86 - 505 3,310 130 3,176	16,920 654 - 505 3,310 130 6,997
eTime Scheduling Enterprise Rollout HR ELECTRONIC SKILLS ASS. SOLUTION Work Mgmt Solution-Transportation Scope Change HR Labour Relations Information System (LRIS) Internal Private Cloud Services IT Audit Project Health Check Framework MLS Centralized Datamart MLS Modernization-Phase 2	1,623 14,950 654 - - 4,597 4,675	1,441 1,970 86 - 505 1,533 130 1,376 2,500	1,777 - 1,800 2,489	- - - - - - 5,804	- - - - - -	-	-	- - - - - -	- - - - - - -	- - - - - - -	- - - - - - -	1,970 86 - 505 3,310 130 3,176 10,793	16,920 654 - 505 3,310 130 6,997 10,793
eTime Scheduling Enterprise Rollout HR ELECTRONIC SKILLS ASS. SOLUTION Work Mgmt Solution-Transportation Scope Change HR Labour Relations Information System (LRIS) Internal Private Cloud Services IT Audit Project Health Check Framework MLS Centralized Datamart	1,623 14,950 654 - - - 4,597	1,441 1,970 86 - 505 1,533 130 1,376	1,777 - 1,800	5,804 429	- - - - - - - -	-		- - - - - - - -		- - - - - - - -		1,970 86 - 505 3,310 130 3,176	16,920 654 - 505 3,310 130 6,997

(In \$000s)	Total App'd Cash Flows to Date*	2019 Budget	2020 Plan	2021 Plan	2022 Plan	2023 Plan	2024 Plan	2025 Plan	2026 Plan	2027 Plan	2028 Plan	2019 - 2028 Total	Total Project Cost
PTP Enhancements	-	390	-	-	-	-	-	-	-	-	-	390	390
Publicly Accessible Wi-Fi for City Facilities	-	287	650	282	-	-	-	-	-	-	-	1,219	1,219
Review and Improve Document Management Capabilitie	420	181	-	-	-	-	-	-	-	-	-	181	420
SDFA- Online Grant Management System	230	184	50	-	-	-	-	-	-	-	-	234	234
TOP - Online Donation Application	389	309	201	-	-	-	-	-	-	-	-	510	510
Toronto Building Electronic Service Delivery	-	49	-	-	-	-	-	-	-	-	-	49	49
Toronto Building-CRM-Enhanced Complaint Management	347	428	539	-	-	-	-	-	-	-	-	967	967
Web Bus. Cont. Refresh & Redesign		22	-	-	-	-	-	-	-	-	-	22	
Web Information Portal on Dvlpmnt Applications	626	7	-	-	-	-	-	-	-	-	-	7	626
Work Mgmt Solution-Transportation	-	2,350	-	1,200	-	-	-	-	-	-	-	3,550	-
WORKFLOW AUTOMATION & TRACKING	860	58	-	-	-	-	-	-	-	-	-	58	860
Sub-Total	52,683	37,703	17,450	11,730	2,044	152	152	167	167	167	167	69,899	97,913
Growth Related													
Application Portfolio T&R Scope Change	_	(650)	_	_	_	_	_	_	_	_	_	(650)	_
Application Portfolio Tools & Rationalization	_	1,437	_	-	_	_	_	_	_	_	_	1,437	_
CLASS Replacement Planning	-	75	75	-	-	-	-	-	-	-	_	150	150
Consolidated Data Centre	13,600	3,534	1,600	-	_	_	_	_	_	_	_	5,134	15,200
Data Center Scope Change	-	5.151	-,	-	_	-	-	_	-	_	_	5.151	-
Data Centre Zones Implementation	-	200	1,066	-	-	-	-	-	-	_	_	1,266	1,266
eCity Program Renewal	-	259	479	148	-	-	-	-		-	-	886	-
Enterprise Architecture	-	983	500	500	500	500	500	500	500	500	547	5,530	-
Enterprise Information Security Pgm	-	4,467	2,400	2,400	400	400	123	-	-	-	-	10,190	-
Enterprise Solutions Design & Implementation	-	-	-	-	4,400	5,556	5,001	6,099	6,099	6,099	6,081	39,335	-
IT Planning & Mgmt Transformation Tools	-	-	-	-	2,000	1,787	1,790	1,962	1,962	1,962	1,956	13,419	-
IT Service Process Improvement Program	-	711	878	880	-	-	-	-	-	-	-	2,469	1,816
Major Cap Infrastructure Project Coord. (TOINView)	902	305	116	309	-	-	-	-	-	-	-	730	902
System Enhancements for Licensing Services - MLS	-	24	-	-	-	-	-	-	-	-	-	24	-
Technology Infrastructure Growth	-	-	-	-	4,738	7,015	7,366	8,072	8,072	8,072	8,049	51,384	-
WAN High Speed Fibre Data Services	2,008	150	-	-	-	-	-	-	-	-	-	150	2,008
Workforce Business Intel. Requirements	-	1,020	1,448	-	-	-	-	-	-	-	-	2,468	2,468
Sub-Total	16,510	17,666	8,562	4,237	12,038	15,258	14,780	16,633	16,633	16,633	16,633	139,073	23,810
Total Expenditures by Category (including carry													
forward from 2018)		91,280	61,294	38,596	32,821	38,319	34,139	45,983	35,745	35,098	39,476	452,751	

<sup>\*</sup>Life to Date approved cash flows are provided for multi-year capital projects with cash flow approvals prior to 2018, excluding ongoing capital projects (i.e. Civic Improvement projects)

Report Phase 2 - Program 30 Information & Technology Program Phase 2 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S2,S5,S6 Part C Sub-Project Status S2,S3,S4

#### **CITY OF TORONTO**

Gross Expenditures (\$000's)

				Curr	ent and F	uture Year	Cash Flo	w Commitn	nents			Cu	rrent and F	uture Year	Cash Flov	v Commi	itments F	inanced	Ву		
	oject No. Project Name lbProj No. Sub-project Name	Ward Stat. Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Del Recov Debt		Total Financing
EOL906983	Asset Lifecycle Management																				
39 39	Enterprise Storage Replacement	CW S2 03	83	0	0	0	0	83	0	83	C	) (	0	83	0	0	0	0	0	0	83
37 42	Enterprise Software Replacement	CW S2 03	122	0	0	0	0	122	0	122	C	) (	0	122	0	0	0	0	0	0	122
39 44	Enterprise Storage Replacement	CW S5 03	1,000	1,800	950	1,000	950	5,700	5,450	11,150	C	) (	0	11,150	0	0	0	0	0	0	11,150
15 46	Desktop Hardware Replacement	CW S2 03	4,346	0	0	0	0	4,346	0	4,346	C	) (	0	4,346	0	0	0	0	0	0	4,346
53 47	Desktop Software Replacement	CW S2 03	362	0	0	0	0	362	0	362	C	) (	0	362	0	0	0	0	0	0	362
37 49	Enterprise Software Replacement	CW S5 03	1,037	637	637	687	1,087	4,085	5,935	10,020	C	) (	0	10,020	0	0	0	0	0	0	10,020
38 50	Enterprise Server Replacement	CW S5 03	2,309	2,269	2,229	2,189	2,350	11,346	11,750	23,096	C	) (	0	23,096	0	0	0	0	0	0	23,096
15 52	Desktop Hardware Replacement	CW S5 03	4,820	4,747	8,732	9,099	12,647	40,045	47,331	87,376	C	) (	0	87,376	0	0	0	0	0	0	87,376
53 53	Desktop Software Replacement	CW S2 03	367	0	0	0	0	367	0	367	C	) (	0	367	0	0	0	0	0	0	367
53 55	Desktop Software Replacement	CW S5 03	638	14,016	363	201	203	15,421	17,544	32,965	C	) (	0	32,965	0	0	0	0	0	0	32,965
48 56	Network Asset Replacement	CW S2 03	233	0	0	0	0	233	0	233	C	) (	0	233	0	0	0	0	0	0	233
9 57	Network Security Replacement	CW S2 03	145	0	0	0	0	145	0	145	C	) (	0	145	0	0	0	0	0	0	145
9 58	Network Security Replacement	CW S5 03	360	870	964	488	592	3,274	3,417	6,691	C	) (	0	6,691	0	0	0	0	0	0	6,691
48 59	Network Asset Replacement	CW S5 03	4,330	3,880	3,050	3,410	3,630	18,300	15,580	33,880	C	) (	0	33,880	0	0	0	0	0	0	33,880
	Sub-total		20,152	28,219	16,925	17,074	21,459	103,829	107,007	210,836	0	(	0	210,836	0	0	0	0	0	0	210,836
ITP000223	Network Upgrade																				
0 54	Disaster Recovery Pgm. (Prev. BCP)	CW S2 03	716	0	0	0	0	716	0	716	C	) (	0	716	0	0	0	0	0	0	716
57 60	Disaster Recovery	CW S2 03	230	0	0	0	0	230	0	230	C	) (	0	0	0	0	0	0	230	0	230
58 61	Business Continuity	CW S2 03	445	0	0	0	0	445	0	445	C	) (	0	0	0	0	445	0	0	0	445
57 62	Disaster Recovery	CW S4 03	646	1,050	1,050	1,050	1,050	4,846	1,302	6,148	C	) (	0	0	0	0	0	0	6,148	0	6,148
58 63	Business Continuity	CW S5 03	140	140	140	0	0	420	0	420	C	) (	0	0	0	0	0	0	420	0	420
	Sub-total		2,177	1,190	1,190	1,050	1,050	6,657	1,302	7,959	0	(	0	716	0	0	445	0	6,798	0	7,959
ITP906881	Application Systems																				
0 28	Enterprise Solutions Design & Implementation	CW S6 05	0	0	0	4,400	5,556	9,956	29,379	39,335	C	) (	0	0	0	0	0	0	39,335	0	39,335

Report Phase 2 - Program 30 Information & Technology Program Phase 2 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S2,S5,S6 Part C Sub-Project Status S2,S3,S4

#### **CITY OF TORONTO**

Gross Expenditures (\$000's)

		ion a recimology																						
							Curr	ent and F	uture Year	Cash Flo	w Commitn	nents			Cu	rrent and F	uture Year	Cash Flo	w Commi	tments F	inanced	Ву		
Sub Pric		oject No. Project Name oProj No. Sub-project Name	Ward	Stat.	Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Deb Recove Debt	rable	Total Financing
ITP9	06881	Application Systems																						
20	140	Enterprise Collaboration Foundation	CW	S2	04	2,001	1,147	523	0	0	3,671	0	3,671	0	C	0	0	0	0	C	0	3,671	0	3,671
0	141	Domino Decommissioning Strat & Implementation	CW	S2	03	846	0	0	0	0	846	0	846	0	C	0	0	0	0	C	0	846	0	846
137	147	Enterprise Mobility Platform	CW	S2	04	930	0	0	0	0	930	0	930	0	C	0	0	0	0	C	0	930	0	930
0	148	Enterprise Business Intelligence Implementation	CW	S2	04	1,802	1,585	0	0	0	3,387	0	3,387	0	C	0	0	0	0	87	0	3,300	0	3,387
0	149	AODA Compliance for City Applications	CW	S2	02	1,969	884	320	0	0	3,173	0	3,173	0	C	0	0	0	0	C	0	3,173	0	3,173
0	152	Open Data Master Plan Implementation	CW	S2	04	878	1,036	158	0	0	2,072	0	2,072	0	C	0	0	0	0	C	0	2,072	0	2,072
0	153	SAP Solution Manager v7.2 Upgrade (SOGR)	CW	S2	03	564	0	0	0	0	564	0	564	0	C	0	0	0	0	C	0	564	0	564
0	154	Geospatial Tool Enhancements	CW	S2	03	253	82	100	0	0	435	0	435	0	C	0	0	0	0	C	0	435	0	435
0	155	eTime Enterprise Rollout	CW	S2	04	1,441	0	0	0	0	1,441	0	1,441	0	C	0	0	0	0	C	0	1,441	0	1,441
20	156	Enterprise Collaboration Foundation	CW	S3	04	1,649	-1,147	-523	0	0	-21	0	-21	0	C	0	0	0	0	C	0	-21	0	-21
137	157	Enterprise Mobility Platform	CW	S3	04	-930	0	0	0	0	-930	0	-930	0	C	0	0	0	0	C	0	-930	0	-930
0	158	Enterprise Documents and Records Management Phase2	CW	S4	04	1,375	0	0	0	0	1,375	0	1,375	0	C	0	0	0	0	C	0	1,375	0	1,375
0	159	CLASS Replacement Planning	CW	S4	05	75	75	0	0	0	150	0	150	0	C	0	0	0	0	C	0	150	0	150
0	160	eTime Scheduling Enterprise Rollout	CW	S4	04	1,970	0	0	0	0	1,970	0	1,970	0	C	0	0	0	0	C	0	1,970	0	1,970
0	162	Project Portfolio Management System (SOGR)	CW	S4	03	465	900	400	400	400	2,565	0	2,565	0	C	0	0	0	0	C	0	2,565	0	2,565
0	163	ECS Cloud Deployment-Construction Project and DMS	t CW	S4	04	568	785	2,151	1,164	0	4,668	0	4,668	0	C	0	0	0	0	C	0	4,668	0	4,668
0	164	Ent Doc & Record Mgmt Solution (ED-CHANGE IN SCOPE	CW	S3	04	750	0	0	0	0	750	0	750	0	C	0	0	0	0	C	0	750	0	750
		Sub-total				16,606	5,347	3,129	5,964	5,956	37,002	29,379	66,381	0	C	0	0	0	0	87	0	66,294	0	66,381
ITP9	06882	Corporate Planning & Management																						
0	13	IT Planning & Mgmt Transformation Tools	CW	S6	05	0	0	0	2,000	1,787	3,787	9,632	13,419	0	C	0	0	0	0	C	0	13,419	0	13,419
0	111	Ent Portfolio & Project Mgmt Upgrade 2021	CW	S6	04	0	0	0	150	152	302	820	1,122	0	C	0	0	0	0	C	0	1,122	0	1,122
89	121	IT Risk Mgmt Framework	CW	S2	03	1,070	0	0	0	0	1,070	0	1,070	0	C	0	0	0	0	410	0	660	0	1,070
0	123	Application Portfolio Tools & Rationalization	CW	S2	04	0	0	118	0	0	118	0	118	0	C	0	0	0	0	C	0	118	0	118
159	132	I&T PPM Solution (Cloud) Implementation	CW	S2	04	500	0	1,156	0	0	1,656	0	1,656	0	C	0	0	0	0	C	0	1,656	0	1,656

Report Phase 2 - Program 30 Information & Technology Program Phase 2 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S2,S5,S6 Part C Sub-Project Status S2,S3,S4

#### **CITY OF TORONTO**

Gross Expenditures (\$000's)

					Cui	rent and F	uture Year	Cash Flo	w Commitm	nents			Cur	rent and Fu	ture Year	Cash Flov	v Commi	tments F	inanced	Ву		
	oject No. Project Name ubProj No. Sub-project Name	Ward S	Stat. C	at. 201	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve	Capital from Current	Other 1	Other2	Del Recov Debt		Total Financing
ITP906882																						
69 133	eCity Program Renewal	CW	S2	05 2	59 479	148	0	0	886	0	886	259	0	0	0	0	0	0	0	627	0	886
10 135	IT Service Process Improvement Program	CW	S2	05 1,2	09 678	225	0	0	2,112	0	2,112	0	0	0	0	0	0	0	0	2,112	0	2,112
20 141	Application Portfolio Tools & Rationalization	on CW	S2	05 1,4	37 (	0	0	0	1,437	0	1,437	0	0	0	0	0	0	287	0	1,150	0	1,437
46 144	Quality Assurance Testing Software Supgrade	CW	S2	03 2	00 0	0	0	0	200	0	200	0	0	0	0	0	0	0	0	200	0	200
20 147	Application Portfolio T&R Scope Change	CW	S2	)5 -6	50 0	0	0	0	-650	0	-650	0	0	0	0	0	0	0	0	-650	0	-650
127 150	Enterprise Solution Delivery Management Framework	CW	S2	03	45 0	0	0	0	45	0	45	0	0	0	0	0	0	0	0	45	0	45
128 151	Enterprise Information Security Pgm	CW	S2	05	05 0	0	0	0	905	0	905	0	0	0	0	0	0	782	2 0	123	0	905
145 152	Enterprise Architecture	CW		05 4	83 (	0	0	0	483	0	483	0	0	0	0	0	0	0	0	483	0	483
46 154	Quality Assurance Testing Software Upgra	ide CW	S5	03	75 500	225	200	0	1,000	0	1,000	0	0	0	0	0	0	0	0	1,000	0	1,000
128 155	Enterprise Information Security Pgm	CW		05 3,5			400	400	9,162	123	9,285	0			0	0	0	0		,	0	9,285
145 156	Enterprise Architecture	CW			500		500	500	2,500	2,547	5,047	0			0	0	0	0			0	5,047
159 157	I&T PPM Solution (Cloud) Implementation				00 0		0	0	-1,656	0	-1,656	0			0	0	0	0		-1,656	0	-1,656
10 158	IT Service Process Improvement Program				98 200		0	0	357	0	357	0			0	0	0	0		357	0	357
0 159	Artificial Intelligence (AI) for SSHA and TP				2,500		0	0	3,000	0	3,000	0			0	0	0	0	0	,	0	3,000
0 160	IT Audit Project Health Check Framework	CW	S4	)4	30 0	0	0	0	130	0	130	0	0	0	0	0	0	0	0	130	ا	130
	Sub-total			9,2	27 7,257	4,271	3,250	2,839	26,844	13,122	39,966	259	0	0	0	0	0	1,479	0	38,228	0	39,966
ITP906883	Technology Infrastructure																					
0 8	Technology Infrastructure Growth	CW	S6	05	0 0	0	4,738	7,015	11,753	39,631	51,384	0	0	0	0	0	0	0	0	51,384	0	51,384
0 32	Data Centre Zones Implementation	CW	S4	05 2	1,066	0	0	0	1,266	0	1,266	0	0	0	0	0	0	0	0	1,266	0	1,266
0 59	File Services Migration	CW	S2	03 8	86 170	549	0	0	1,305	0	1,305	0	0	0	0	0	0	0	0	1,305	0	1,305
67 67	TEMS REPLACEMENT-Design	CW	S2	03 4	50 0	0	0	0	450	0	450	0	0	0	0	0	0	0	0	450	0	450
20 76	Data Center Scope Change	CW	S2	5,	51 0	0	0	0	5,151	0	5,151	0	0	0	5,151	0	0	0	0	0	0	5,151
20 77	Consolidated Data Centre	CW	S2	05 3,5	34 0	0	0	0	3,534	0	3,534	0	0	0	2,234	0	0	0	0	1,300	0	3,534
0 78	Business Applications Service Monitoring	CW	S2	03	50 150	280	0	0	580	0	580	0	0	0	0	0	0	0	0	580	0	580

Report Phase 2 - Program 30 Information & Technology Program Phase 2 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S2,S5,S6 Part C Sub-Project Status S2,S3,S4

#### **CITY OF TORONTO**

Gross Expenditures (\$000's)

		ion a recimology																						
							Curr	ent and F	uture Year	Cash Flo	w Commitn	nents			Cu	rrent and Fu	ıture Year	Cash Flo	w Commit	ments F	inanced	Ву		
Sub Pric		oject No. Project Name bProj No. Sub-project Name	Ward	Stat.	Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt Recove Debt	rable	Total Financing
ITP9	06883	Technology Infrastructure																						
68	79	DIRECTORY SERVICES - Implementation	CW	S2	03	1,203	706	924	0	0	2,833	0	2,833	0	C	0	0	0	0	523	0	2,310	0	2,833
75	80	WAN High Speed Fibre Data Services	CW	S2	05	150	0	0	0	0	150	0	150	0	O	0	150	0	0	0	0	0	0	150
20	83	Consolidated Data Centre	CW	S3	05	0	1,600	0	0	0	1,600	0	1,600	0	O	0	1,600	0	0	0	0	0	0	1,600
0	84	Publicly Accessible Wi-Fi for City Facilities	CW	S4	04	287	650	282	0	0	1,219	0	1,219	0	O	0	0	0	0	0	0	1,219	0	1,219
0	85	Internal Private Cloud Services	CW	S4	04	1,533	1,777	0	0	0	3,310	0	3,310	0	0	0	0	0	0	0	0	3,310	0	3,310
		Sub-total				13,244	6,119	2,035	4,738	7,015	33,151	39,631	72,782	0	O	0	9,135	0	0	523	0	63,124	0	72,782
ITP9	<u>)7747</u>	Corporate Initiatives																						
0	34	Employee Performance Management (e	CW	S6	04	0	546	762	0	0	1,308	0	1,308	0	O	0	0	0	0	0	0	1,308	0	1,308
45	52	Web Bus. Cont. Refresh & Redesign	CW	S2	04	22	0	0	0	0	22	0	22	0	O	0	0	0	0	0	0	22	0	22
0	54	HR ELECTRONIC SKILLS ASS. SOLUTION	I CW	S2	04	86	0	0	0	0	86	0	86	0	O	0	0	0	0	0	0	86	0	86
0	69	WORKFLOW AUTOMATION & TRACKING	CW	S2	04	58	0	0	0	0	58	0	58	0	0	0	0	0	0	30	0	28	0	58
20	75	Work Mgmt Solution-Transportation	CW	S2	04	2,350	0	1,200	0	0	3,550	0	3,550	0	0	0	0	0	0	0	0	3,550	0	3,550
0	81	Major Cap Infrastructure Project Coord. (TOINView)	CW	S2	05	305	116	309	0	0	730	0	730	0	0	0	0	0	0	0	0	730	0	730
30	86	OCC HEALTH & SAFETY APP 2016-2019	CW	S2	04	516	0	30	0	0	546	0	546	0	O	0	0	0	0	516	0	30	0	546
20	98	Work Mgmt Solution-Transportation Scope Change		S2	04	1,496	4,835	3,094	2,062	340	11,827	566	12,393	0	0	0	0	0	0	0	0	12,393	0	12,393
80	99	CAPITAL PROJECT PLANNING SYS ENHANCEMENTS		S2	04	81	0	0	0	0	81	0	81	0			0	0	0	0	0	81	0	81
6	100	Enterprise eLearning HR	CW	S2	04	281	0	0	0	0	281	0	281	0	0	0	0	0	0	203	0	78	0	281
84	101	eRecruitment	CW	S2	04	1,135	0	0	0	0	1,135	0	1,135	0	O	0	0	0	0	0	0	1,135	0	1,135
30	102	OCC HEALTH & SAFETY APP 2016-2019	CW	S2	04	201	762	399	0	0	1,362	0	1,362	0	0	0	0	0	0	0	0	1,362	0	1,362
0	105	DLAN Cloud Services Implementation	CW	S2	03	165	0	0	0	0	165	0	165	0	0	0	0	0	0	0	0	165	0	165
0	106	Toronto Building-CRM-Enhanced Complaint Management	CW	S2	04	428	539	0	0	0	967	0	967	0	O	0	0	967	0	0	0	0	0	967
0	107	TOP - Online Donation Application	CW	S2	04	309	201	0	0	0	510	0	510	0	0	0	0	0	0	309	0	201	0	510
0	108	SDFA- Online Grant Management System	CW	S2	04	184	50	0	0	0	234	0	234	0	C	0	0	0	0	184	0	50	0	234
0	109	Wellbeing Toronto v3 2018	CW	S2	03	450	0	0	0	0	450	0	450	0	0	0	0	0	0	450	0	0	0	450

Report Phase 2 - Program 30 Information & Technology Program Phase 2 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S2,S5,S6 Part C Sub-Project Status S2,S3,S4

#### **CITY OF TORONTO**

Gross Expenditures (\$000's)

Info	rmat	ion & Technology																						
							Curre	ent and Fu	iture Year	Cash Flo	v Commitm	nents			Cu	rrent and F	uture Year	Cash Flo	w Comm	nitments F	inanced	Ву		
Sub Prio		oject No. Project Name oProj No. Sub-project Name	Vard	Stat.	Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Rec	Debt - overable	Total Financing
ITP9	)7747	Corporate Initiatives																						
20	110	Work Mgmt Solution-Transportation Scope Change	CW	S3	04	-1,496	-4,835	-3,094	-2,062	-340	-11,827	-566	-12,393	C	)	0 0	0	0	C	) (	0	-12,393	0	-12,393
0	112	Workforce Business Intel. Requirements	CW	S4	05	1,020	1,448	0	0	0	2,468	0	2,468	c	)	0 0	0	0	C	) (	0	2,468	0	2,468
0	113	PTP Enhancements	CW	S4	04	390	0	0	0	0	390	0	390	c	)	0 0	0	0	C	) (	0	390	0	390
0	114	Corporate Geospatial Strategy Roadmap Implementati	CW	S4	04	309	1,125	826	730	0	2,990	0	2,990	c	)	0 0	0	0	C	) (	0	2,990	0	2,990
0	116	eRecruitment	CW	S4	04	2,899	563	0	0	0	3,462	0	3,462	C	)	0 0	0	0	C	) (	0	3,462	0	3,462
0	117	CloudBasedHumanResourcesInformationSys (CHRIS)	CW	S4	04	5,334	562	0	0	0	5,896	0	5,896	C	)	0 0	0	0	C	) (	0	5,896	0	5,896
0	118	HR Labour Relations Information System (LRIS)	CW	S4	04	505	0	0	0	0	505	0	505	C	)	0 0	0	0	C	) (	0	505	0	505
0	119	Enterprise eLearning Initiative (ELI) Agreement	CW	S4	04	277	0	0	0	0	277	0	277	C	)	0 0	0	0	C	) (	0	277	0	277
0	120	EDHR - Complaints Management System	CW	S4	02	300	15	15	15	0	345	0	345	C	)	0 0	0	0	C	) (	0	345	0	345
		Sub-total				17,605	5,927	3,541	745	0	27,818	0	27,818	0		0 0	0	967	C	1,692	. 0	25,159	0	27,818
ITP9	7907	Resources to Deliver IT Capital Projects																						
0	1	Capital Portfolio Resource Requirements	CW	S2	03	2,749	0	0	0	0	2,749	0	2,749	C	)	0 0	2,749	0	C	) (	0	0	0	2,749
0	3	Capital Portfolio Resource Requirement	CW	S2	03	144	0	0	0	0	144	0	144	c	)	0 0	144	0	C	) (	0	0	0	144
		Sub-total				2,893	0	0	0	0	2,893	0	2,893	0		0 0	2,893	0	C	) (	0	0	0	2,893
ITP9	7951	2012 Core Service Review - Service Efficience	cies																					
0	7	Asset Management Solution - Transportation	CW	S2	04	835	0	0	0	0	835	0	835	c	)	0 0	0	0	C	) (	0	835	0	835
		Sub-total				835	0	0	0	0	835	0	835	0		0 0	0	0	C	) (	0	835	0	835
WES	907128	BUSINESS SUSTAINMENT SYSTEMS																						
0	132	Web Information Portal on Dvlpmnt Applications	CW	S2	04	7	0	0	0	0	7	0	7	c	)	0 0	0	0	C	) (	0	7	0	7
0	138	Toronto Building Electronic Service Delivery	CW	S2	04	49	0	0	0	0	49	0	49	c	)	0 0	0	49	C	) (	0	0	0	49
142	153	MLS Centralized Datamart	CW	S2	04	776	0	0	0	0	776	0	776	c	)	0 0	776	0	C	) (	0	0	0	776
0	156	MLS Modernization-Phase 2	CW	S2	04	0	0	1,175	0	0	1,175	0	1,175	c	)	0 0	0	0	C	1,175	0	0	0	1,175
160	167	OnLine Portal Services for City Planning	CW	S2	04	794	480	0	0	0	1,274	0	1,274	c	)	0 0	0	0	C	235	0	1,039	0	1,274
0	169	System Enhancements for Licensing Services - MLS	CW	S2	05	24	0	0	0	0	24	0	24	c	)	0 0	0	0	C	) (	0	24	0	24
0	170	Electronic Service Delivery Portal-Bldg Permits	CW	S2	04	1,175	0	0	0	0	1,175	0	1,175	C	) (	0 0	0	0	C	) (	0	1,175	0	1,175

Report Phase 2 - Program 30 Information & Technology Program Phase 2 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S2,S5,S6 Part C Sub-Project Status S2,S3,S4

#### **CITY OF TORONTO**

Gross Expenditures (\$000's)

						Curre	ent and Fu	ture Year	Cash Flo	w Commitn	nents			Cu	rrent and F	uture Year	Cash Flo	w Comm	itments F	inanced	Ву		
	<u>oject No.                                    </u>	Nard :	Stat.	Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Recov	bt - /erable	Total Financing
WES907128	BUSINESS SUSTAINMENT SYSTEMS																						
0 174	ECS Capital Project and Program Management Process	CW	S2	04	82	0	0	0	0	82	0	82	0	C	0	0	0	0	0	0	82	0	82
0 175	Review and Improve Document Management Capabilitie	CW	S2	04	181	0	0	0	0	181	0	181	0	C	0	0	0	0	0	0	181	0	181
0 181	MLS Modernization-Phase 2	CW	S2	04	2,500	2,489	4,629	0	0	9,618	0	9,618	0	C	0	0	0	0	0	0	9,618	0	9,618
160 182	Business Sys Improvements - ECS Phase 2	CW	S2	04	455	0	0	0	0	455	0	455	0	C	0	0	0	0	0	0	455	0	455
155 185	IBMS Review & Transformation	CW	S2	03	1,898	2,087	1,701	0	0	5,686	0	5,686	0	C	0	0	3,311	0	0	0	2,375	0	5,686
155 186	Integrated Business Mgmt System - Review and Trans	CW	S4	03	0	379	0	0	0	379	0	379	0	C	0	0	0	0	0	0	379	0	379
0 188	MLS Centralized DataMart	CW	S4	04	600	1,800	0	0	0	2,400	0	2,400	0	C	0	0	0	0	0	0	2,400	0	2,400
	Sub-total				8,541	7,235	7,505	0	0	23,281	0	23,281	0	C	0	776	3,360	0	1,410	0	17,735	0	23,281
Total Pr	ogram Expenditure				91,280	61,294	38,596	32,821	38,319	262,310	190,441	452,751	259	C	0	224,356	4,327	0	5,636	0	218,173	0	452,751

0

0

259

Page 7 of 7

0

0 5,636

4,327

0 224,356

Report 7C

0 218,173

0 218,173

218,173

452,751

Report Phase 2 - Program 30 Information & Technology Program Phase 2 Sub-Project Category 01,02,03,04,05,06,07 Part B Sub-Project Status S2,S5,S6 Part C Sub-Project Status S2,S3,S4

52,962

91,280

30,025

61,294 38,596

19,145

15,747

32,821

16,860

38,319

#### **CITY OF TORONTO**

Gross Expenditures (\$000's)

Information & Technology																				
		C	Current and	Future Ye	ar Cash Fl	ow Comr	nitments an	nd Estimate	s		Current	and Futur	e Year Cas	sh Flow C	ommitme	nts and	Estimates	Financed By		
<u>Sub-</u> <u>Project No.</u> <u>Project Name</u> Priority SubProj No. Sub-project Name	Ward Stat. Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal De Subsidy	evelopment Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recoverab Debt	le Total Financi	
Financed By:																				
Provincial Grants & Subsidies		259	0	0	0	0	259	0	259	259	0	0	0	0	0	(	0	0	0 2	259
Reserves (Ind. "XQ" Ref.)		32,072	29,819	16,925	17,074	21,459	117,349	107,007	224,356	0	0	0	224,356	0	0	(	0	0	0 224,3	356
Reserve Funds (Ind."XR" Ref.)		1,526	1,450	1,351	0	0	4,327	0	4,327	0	0	0	0	4,327	0	(	0	0	0 4,0	327
Other1 (Internal)		4,461	0	1,175	0	0	5,636	0	5,636	0	0	0	0	0	0	5,636	6 0	0	0 5,6	636

134,739

262,310

83,434

190,441

218,173

452,751

Otatas ooac	Description
S2	S2 Prior Year (With 2019 and\or Future Year Cashflow)
S3	S3 Prior Year - Change of Scope 2019 and\or Future Year Cost\Cashflow)
S4	S4 New - Stand-Alone Project (Current Year Only)
S5	S5 New (On-going or Phased Projects)
S6	S6 New - Future Year (Commencing in 2020 & Beyond)

#### **Category Code Description**

Debt

01	Health and Safety C01
02	Legislated C02
03	State of Good Repair C03
04	Service Improvement and Enhancement C04

**Total Program Financing** 

05 Growth Related C05 06 Reserved Category 1 C06 07 Reserved Category 2 C07

## **Appendix 8**

# 2019 Cash Flow and Future Year Commitments Including Carry Forward Funding

(I) (2000-)	2040	2000	0004	2000	2000	0004	0005	2000	2007	0000	Total 2019 Cash Flow & FY
(In \$000s)	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	Commits
Expenditures:											
Previously Approved											
AODA Compliance for City Applications	1,969	884	320	-	-	-	-	-	-	-	3,173
Application Portfolio T&R Scope Change	(650)	-	-	-	-	-	-	-	-	-	(650)
Application Portfolio Tools & Rationalization	1,437	-	118	-	-	-	-	-	-	-	1,555
Business Applications Service Monitoring	150	150	280	-	-	-	-	-	-	-	580
Business Continuity	445	-	-	-	-	-	-	-	-	-	445
Business Sys Improvements - ECS Phase 2	455	-	-	-	-	-	-	-	-	-	455
Capital Portfolio Resource Requirement	144	-	-	-	-	-	-	-	-	-	144
Capital Portfolio Resource Requirements	2,749	-	-	-	-	-	-	-	-	-	2,749
Consolidated Data Centre	3,534	-	-	-	-	-	-	-	-	-	3,534
Data Center Scope Change	5,151	-	-	-	-	-	-	-	-	-	5,151
Desktop Hardware Replacement	4,346	-	-	-	-	-	-	-	-	-	4,346
Desktop Software Replacement	729	-	-	-	-	-	-	-	-	-	729
DIRECTORY SERVICES - Implementation	1,203	706	924		_	_	_	_	_	_	2,833
Disaster Recovery	230	-	-	-	_	_	_	_	_	_	230
Disaster Recovery Pgm. (Prev. BCP)	716	_	_	_	_	_	_	_	_	_	716
Domino Decommissioning Strat & Implementation	846	_	_	_	_	_	_	_	_	_	846
eCity Program Renewal	259	479	148		_	_	_	_	_	_	886
Electronic Service Delivery Portal-Bldg Permits	1,175	419	140	-	-		-	-	-	-	1,175
Enterprise Architecture	483	-	-	-	-	-	-	-	-	-	483
	1,802	1,585	-	-	-	-	-	-	-	-	3,387
Enterprise Business Intelligence Implementation			-	-	-	-	-	-	-	-	
Enterprise Collaboration Foundation	2,001	1,147	523	-	-	-	-	-	-	-	3,671
Enterprise Information Security Pgm	905	-	-	-		-	-		-	-	905
Enterprise Mobility Platform	930	-	-	-	-	-	-	-	-	-	930
Enterprise Software Replacement	122	-	-	-	-	-	-	-	-	-	122
Enterprise Storage Replacement	83	-	-	-	-	-	-	-	-	-	83
eRecruitment	1,135	-	-	-	-	-	-	-	-	-	1,135
eTime Enterprise Rollout	1,441	-	-	-	-	-	-	-	-	-	1,441
File Services Migration	586	170	549		-	-	-	-	-	-	1,305
Geospatial Tool Enhancements	253	82	100	-	-	-	-	-	-	-	435
HR ELECTRONIC SKILLS ASS. SOLUTION	86	-	-	-	-	-	-	-	-	-	86
I&T PPM Solution (Cloud) Implementation	500	-	1,156	-	-	-	-	-	-	-	1,656
IBMS Review& Transformation	1,898	2,087	1,701	-	-	-	-	-	-	-	5,686
IT Risk Mgmt Framework	1,070	-	-	-	-	-	-	-	-	-	1,070
IT Service Process Improvement Program	1,209	678	225	-	-	-	-	-	-	-	2,112
Major Cap Infrastructure Project Coord. (TOINView)	305	116	309	-	-	-	-	-	-	-	730
MLS Modernization-Phase 2	2,500	2,489	5,804	-	-	-	-	-	-	-	10,793
Network Asset Replacement	233	-	-	-	-	-	-	-	-	-	233
Network Security Replacement	145	-	-	-	-	-	-	-	-	-	145
OCC HEALTH & SAFETY APP 2016-2019	717	762	429	-	-	-	-	-	-	-	1,908
OnLine Portal Services for City Planning	794	480	-	-	-	-	-	-	-	-	1,274
Open Data Master Plan Implementation	878	1,036	158	-	-	-	-	-	-	-	2,072
SDFA- Online Grant Management System	184	50	-	-	-	-	-	-	-	-	234
System Enhancements for Licensing Services - MLS	24	-	-	-	-	-	- 1	-	-	-	24
TEMS REPLACEMENT-Design	450	-	-	-	-	-	- 1	-	-	-	450
TOP - Online Donation Application	309	201	-	-	-	-	-	-	-	-	510
Toronto Building Electronic Service Delivery	49		-	-	-	_	-	-	_	_	49
Toronto Building-CRM-Enhanced Complaint Management	428	539	_	_		_			_	_	967
WAN High Speed Fibre Data Services	150	555			_	_		_	_		150
Web Information Portal on Dylpmnt Applications	7		-		-	-		-	_	_	7
Work Mamt Solution-Transportation	2,350	-	1,200	-	-	-	-	-	-	-	3,550
Work Mgmt Solution-Transportation  Work Mgmt Solution-Transportation Scope Change	1,496	4,835	3,094	2,062	340	340	226	-	-	-	12,393

											Total 2019
											Cash Flow
(In \$000s)	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	& FY Commits
WORKFLOW AUTOMATION & TRACKING	58	-	-	-	-	- 2024	-	-	-	-	58
Asset Management Solution - Transportation	835	-	-	-	-	-	-		-	-	835
Enterprise Solution Delivery Management Framework	45	-	-	-	-	-	-		-	-	45
Web Bus. Cont. Refresh & Redesign	22	-	-	-	-	-	-	-	-	-	22
Enterprise eLearning HR	281	-	-	-	-	-	-	-	-	-	281
MLS Centralized Datamart	776	-	-	-	-	-	-	-	-	-	776
Reviewand Improve Document Management Capabilitie	181	-	-	-	-	-	-	-	-	-	181
Wellbeing Toronto v3 2018	450 82	-	-	-	-	-	-		-	-	450 82
ECS Capital Project and Program Management Process Quality Assurance Testing Software Supgrade	200	-	-	-	-	-	-	-	-	-	200
SAP Solution Manager v7.2 Upgrade (SOGR)	564	-	-			-	-		_	-	564
DLAN Cloud Services Implementation	165	_	_	_	_	_	_	_	_	_	165
CAPITAL PROJECT PLANNING SYS ENHANCEMENTS	81	-	-	-	-	-	-		-	-	81
Subtotal	54,151	18,476	17,038	2,062	340	340	226	-	-	-	92,633
Change in Scope	Í	,	,	,							
Consolidated Data Centre	-	1,600	-	-	-	-	-	-	-	-	1,600
Ent Doc & Record Mgmt Solution (ED-CHANGE IN SCOPE	750	-	-	-	-	-	-	-	-	-	750
Enterprise Collaboration Foundation	1,649	(1,147)	(523)	-	-	-	-	-	-	-	(21)
Enterprise Mobility Platform	(930)	-	-	-	-	-	-	-	-	-	(930)
I&T PPM Solution (Cloud) Implementation	(500)	-	(1,156)	-	-	-	-	-	-	-	(1,656)
IT Service Process Improvement Program	(498)	200	655	-	-	-	-	-	-	-	357
Work Mgmt Solution-Transportation Scope Change	(1,496)	(4,835)	(3,094)	(2,062)	(340)	(340)	(226)	-	-	-	(12,393)
Subtotal	(1,025)	(4,182)	(4,118)	(2,062)	(340)	(340)	(226)	-	-	-	(12,293)
New w/Future Year											
Business Continuity	140	4 000	-	-	-	-	-	-	-	-	140
Data Centre Zones Implementation	200	1,066	-	-	-	-	-	-	-	-	1,266
Desktop Hardware Replacement	4,820 638	-	-	-	-	-	-	-	-	-	4,820 638
Desktop Software Replacement Disaster Recovery	646	1,050	1,050	1,050	1,050	1,302	-	-	-	-	6,148
Employee Performance Management (e	040	1,030	1,030	1,030	1,030	1,302	-		_	-	0,146
Ent Portfolio & Project Mgmt Upgrade 2021	_	_	_			_	_	_	_	_	i -
Enterprise Architecture	500	_	_	_	_	_	_	_	_	_	500
Enterprise Information Security Pgm	3,562	2,400	2,400	400	400	123	_	_	_	_	9,285
Enterprise Server Replacement	2,309		-,	-	-	-	-		-	-	2,309
Enterprise Software Replacement	1,037	-	-	-	-	-	-	-	-	-	1,037
Enterprise Solutions Design & Implementation	-	-	-	-	-	-	-	-	-	-	-
Enterprise Storage Replacement	1,000	-	-	-	-	-	-	-	-	-	1,000
eRecruitment	2,899	563	-	-	-	-	-	-	-	-	3,462
Integrated Business Mgmt System - Reviewand Trans	-	379	-	-	-	-	-	-	-	-	379
IT Audit Project Health Check Framework	130	-	-	-	-	-	-	-	-	-	130
IT Planning & Mgmt Transformation Tools	-	-	-	-	-	-	-	-	-	-	-
Network Asset Replacement	4,330	-	-	-	-	-	-	-	-	-	4,330
Network Security Replacement	360	-	-	-	-	-	-	-	-	-	360
Quality Assurance Testing Software Upgrade	75	-	-	200	-	-	-	-	-	-	275
Technology Infrastructure Growth  MLS Centralized Datamart	600	1,800	-	-	-	-	-	-	-	-	2,400
Workforce Business Intel. Requirements	1,020	1,448	-			-	-		_	-	2,468
Internal Private Cloud Services	1,533	1,777	_		-	_	_		_	_	3,310
CLASS Replacement Planning	75	75	_	_	_	_	_	_	_	_	150
Publicly Accessible Wi-Fi for City Facilities	287	650	282	-	_	-	-		-	-	1,219
CloudBasedHumanResourcesInformationSystem (CHRIS)	5,334	562	-	-	-	-	-	-	-	-	5,896
Enterprise Documents and Records Management Phase2	1,375	-	-	-	-	-	-	-	-	-	1,375
Artificial Intelligence (AI) for SSHA and TPH	500	-	-	-	-	-	-	-	-	-	500
eTime Scheduling Enterprise Rollout	1,970	-	-	-	-	-	-	-	-	-	1,970
HR Labour Relations Information System (LRIS)	505	-	-	-	-	-	-	-	-	-	505
Enterprise eLearning Initiative (ELI) Agreement	277	-	-	-	-	-	-	-	-	-	277
PTP Enhancements	390	-	-	-	-	-	-	-	-	-	390
Project Portfolio Management System (SOGR)	465	900	400	400	400	-	-	-	-	-	2,565
Corporate Geospatial Strategy Roadmap Implementati	309	1,125	826	730	-	-	-	-	-	-	2,990
ECS Cloud Deployment-Construction Project and DMS EDHR - Complaints Management System	568 300	785 15	2,151 15	1,164	-	-	-	-	-	-	4,668
Subtotal	38,154	15 <b>14,595</b>	7,124	15 <b>3,959</b>	1,850	1,425	-		-	-	345 <b>67,107</b>
Total Expenditure (including carry forward from 2018)	91,280	28,889	20,044	3,959	1,850	1,425					147,447
Financing:	31,200	20,009	20,044	3,333	1,000	1,423	_	-	-	-	177,447
Debt/CFC	52,962	25,839	17,518	3,959	1,850	1,425	-	_	_	_	103,553
Debt Recoverable		- ,	,5.5	- ,223	-	- ,	-	-	-	-	
Other	4,461	-	1,175	-	-	-	-	-	-	-	5,636
Reserves/Res Funds	33,598	3,050	1,351	-	-	-	-	-	-	-	37,999
Development Charges	-	-	-	-	-	-	-	-	-	-	-
Provincial/Federal	259	-	-	-	-	-	-		-	-	259
Total Financing	91,280	28,889	20,044	3,959	1,850	1,425	-	-	-	-	147,447

#### **CITY OF TORONTO**

Gross Expenditures (\$000's)

	tion a recimology																				
				Curr	ent and F	uture Year	Cash Flo	w Commitn	nents			Cu	rrent and F	uture Year	Cash Flo	w Comm	itments F	inanced	Ву		
	oject No. Project Name IbProj No. Sub-project Name	Ward Stat. Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Debt - Recovera Debt		Total Financing
EOL906983	Asset Lifecycle Management																				
39 39	Enterprise Storage Replacement	CW S2 03	83	0	0	0	0	83	0	83	0	) (	0 0	83	0	0	0	0	0	0	83
37 42	Enterprise Software Replacement	CW S2 03	122	0	0	0	0	122	0	122	0	) (	0 0	122	0	0	0	0	0	0	122
39 44	Enterprise Storage Replacement	CW S5 03	1,000	0	0	0	0	1,000	0	1,000	0	) (	0 0	1,000	0	0	0	0	0	0	1,000
15 46	Desktop Hardware Replacement	CW S2 03	4,346	0	0	0	0	4,346	0	4,346	0	) (	0 0	4,346	0	0	0	0	0	0	4,346
53 47	Desktop Software Replacement	CW S2 03	362	0	0	0	0	362	0	362	0	) (	0 0	362	0	0	0	0	0	0	362
37 49	Enterprise Software Replacement	CW S5 03	1,037	0	0	0	0	1,037	0	1,037	0	) (	0 0	1,037	0	0	0	0	0	0	1,037
38 50	Enterprise Server Replacement	CW S5 03	2,309	0	0	0	0	2,309	0	2,309	0	) (	0 0	2,309	0	0	0	0	0	0	2,309
15 52	Desktop Hardware Replacement	CW S5 03	4,820	0	0	0	0	4,820	0	4,820	0	) (	0 0	4,820	0	0	0	0	0	0	4,820
53 53	Desktop Software Replacement	CW S2 03	367	0	0	0	0	367	0	367	0	) (	0 0	367	0	0	0	0	0	0	367
53 55	Desktop Software Replacement	CW S5 03	638	0	0	0	0	638	0	638	0	) (	0 0	638	0	0	0	0	0	0	638
48 56	Network Asset Replacement	CW S2 03	233	0	0	0	0	233	0	233	0	) (	0	233	0	0	0	0	0	0	233
9 57	Network Security Replacement	CW S2 03	145	0	0	0	0	145	0	145	0	) (	0 0	145	0	0	0	0	0	0	145
9 58	Network Security Replacement	CW S5 03	360	0	0	0	0	360	0	360	0	) (	0 0	360	0	0	0	0	0	0	360
48 59	Network Asset Replacement	CW S5 03	4,330	0	0	0	0	4,330	0	4,330	0	) (	0 0	4,330	0	0	0	0	0	0	4,330
	Sub-total		20,152	0	0	0	0	20,152	0	20,152	0	(	0 0	20,152	0	0	0	0	0	0	20,152
ITP000223	Network Upgrade																			T	
0 54	Disaster Recovery Pgm. (Prev. BCP)	CW S2 03	716	0	0	0	0	716	0	716	0	) (	0 0	716	0	0	0	0	0	0	716
57 60	Disaster Recovery	CW S2 03	230	0	0	0	0	230	0	230	0	) (	0	0	0	0	0	0	230	0	230
58 61	Business Continuity	CW S2 03	445	0	0	0	0	445	0	445	0	) (	0 0	0	0	0	445	0	0	0	445
57 62	Disaster Recovery	CW S4 03	646	1,050	1,050	1,050	1,050	4,846	1,302	6,148	0	) (	0	0	0	0	0	0	6,148	0	6,148
58 63	Business Continuity	CW S5 03	140	0	0	0	0	140	0	140	0	) (	0 0	0	0	0	0	0	140	0	140
	Sub-total		2,177	1,050	1,050	1,050	1,050	6,377	1,302	7,679	0	(	0 0	716	0	0	445	0	6,518	0	7,679
ITP906881	Application Systems	OW 00 01	0.004	4 4 4 7	500	•	_	0.071	_	0.071				2	2	•		^	0.074		0.074
20 140	Enterprise Collaboration Foundation	CW S2 04	2,001	1,147	523	0	0	3,671	0	3,671	0	) (	0	0	0	0	0	0	3,671	0	3,671

#### **CITY OF TORONTO**

Gross Expenditures (\$000's)

						Curr	ent and Fu	uture Year	Cash Flov	v Commitm	nents			Cu	rrent and	Future Yea	r Cash Fl	low Com	mitments	Finance	d By		
	oject No. Project Name ubProj No. Sub-project Name Application Systems	Ward	Stat.	Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Developmer Charges	<sup>it</sup> Reserve	Reserve Funds	Capita from Curren	t Other 1	Other2	. De	Debt - Recoverablebt	Total Financing
0 141	Domino Decommissioning Strat & Implementation	CW	S2	03	846	0	0	0	0	846	0	846	0	) (	) (	0 0		0	0	0 (	0	846	846
137 147	Enterprise Mobility Platform	CW	S2	04	930	0	0	0	0	930	0	930	0	) (	) (	D 0	(	0	0	0 (	0	930	930
0 148	Enterprise Business Intelligence Implementation	CW	S2	04	1,802	1,585	0	0	0	3,387	0	3,387	0	) (	) (	0 0	(	0	0 8	7 (	0 3	3,300	3,387
0 149	AODA Compliance for City Applications	CW	S2	02	1,969	884	320	0	0	3,173	0	3,173	0	) (	) (	0 0	(	0	0	0 (	0 3	3,173	3,173
0 152	Open Data Master Plan Implementation	CW	S2	04	878	1,036	158	0	0	2,072	0	2,072	0	) (	) (	D 0	(	0	0	0 (	0 2	2,072	2,072
0 153	SAP Solution Manager v7.2 Upgrade (SOGR)	CW	S2	03	564	0	0	0	0	564	0	564	0	) (	) (	0 0	(	0	0	0 (	0	564	564
0 154	Geospatial Tool Enhancements	CW	S2	03	253	82	100	0	0	435	0	435	0	) (	) (	D 0	(	0	0	0 (	0	435	435
0 155	eTime Enterprise Rollout	CW	S2	04	1,441	0	0	0	0	1,441	0	1,441	0	) (	) (	0 0	(	0	0	0 (	0 1	,441	1,441
20 156	Enterprise Collaboration Foundation	CW	S3	04	1,649	-1,147	-523	0	0	-21	0	-21	0	) (	) (	0 0	(	0	0	0 (	0	-21	-21
137 157	Enterprise Mobility Platform	CW	S3	04	-930	0	0	0	0	-930	0	-930	0	) (	) (	D 0	(	0	0	0 (	0	-930	-930
0 158	Enterprise Documents and Records Management Phase2	CW	S4	04	1,375	0	0	0	0	1,375	0	1,375	0	) (	) (	0 0	(	0	0	0 (	0 1	,375	1,375
0 159	CLASS Replacement Planning	CW	S4	05	75	75	0	0	0	150	0	150	0	) (	) (	0 0	(	0	0	0 (	0	150	150
0 160	eTime Scheduling Enterprise Rollout	CW	S4	04	1,970	0	0	0	0	1,970	0	1,970	0	) (	) (	D 0	(	0	0	0 (	0 1	,970	1,970
0 162	Project Portfolio Management System (SOGR)	CW	S4	03	465	900	400	400	400	2,565	0	2,565	0	) (	) (	0 0	(	0	0	0 (	0 2	2,565	2,565
0 163	ECS Cloud Deployment-Construction Proj and DMS	ect CW	S4	04	568	785	2,151	1,164	0	4,668	0	4,668	0	) (	) (	D 0	(	0	0	0 (	0 4	1,668	4,668
0 164	Ent Doc & Record Mgmt Solution (ED-CHANGE IN SCOPE	CW	S3	04	750	0	0	0	0	750	0	750	0	) (	) (	o 0	(	0	0	0 (	0	750	750
	Sub-total				16,606	5,347	3,129	1,564	400	27,046	0	27,046	0	C	) (	) (	(	0	0 8	7	0 2	6,959	27,046
ITP906882	Corporate Planning & Management																						
89 121	IT Risk Mgmt Framework	CW	S2	03	1,070	0	0	0	0	1,070	0	1,070	0	) (	) (	0 0	(	0	0 41	0 (	0	660	1,070
0 123	Application Portfolio Tools & Rationalization	on CW	S2	04	0	0	118	0	0	118	0	118	0	) (	) (	0 0	(	0	0	0 (	0	118	118
159 132	I&T PPM Solution (Cloud) Implementation	CW	S2	04	500	0	1,156	0	0	1,656	0	1,656	0	) (	) (	D 0	(	0	0	0 (	0 1	,656	1,656
69 133	eCity Program Renewal	CW	S2	05	259	479	148	0	0	886	0	886	259	) (	) (	D 0	(	0	0	0 (	0	627	886
10 135	IT Service Process Improvement Program	CW	S2	05	1,209	678	225	0	0	2,112	0	2,112	0	) (	) (	0 0	(	0	0	0 (	0 2	2,112	2,112
20 141	Application Portfolio Tools & Rationalization	on CW	S2	05	1,437	0	0	0	0	1,437	0	1,437	α	) (	) (	o o	(	0	0 28	7 (	0 1	,150	1,437

#### **CITY OF TORONTO**

Gross Expenditures (\$000's)

					Curre	ent and Fu	uture Year	Cash Flo	w Commitm	nents			Cur	rent and Fu	ture Year	Cash Flow	Commit	ments F	inanced	Ву		
	oject No. Project Name IbProj No. Sub-project Name	Ward S	tat. Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal [	Development Charges	Reserves	Reserve Funds C	Capital from Current (	Other 1	Other2	Debt - Recovera Debt		Total Financing
ITP906882 46 144	Corporate Planning & Management  Quality Assurance Testing Software Supgrade	cw s	S2 03	200	0	0	0	0	200	0	200	0		0	0	0	0	0	0	200	0	200
20 147	Application Portfolio T&R Scope Change	CW S	S2 05	-650	0	0	0	0	-650	0	-650	0	0	0	0	0	0	0	0	-650	0	-650
127 150	Enterprise Solution Delivery Management Framework	CW S	S2 03	45	0	0	0	0	45	0	45	0	0	0	0	0	0	0	0	45	0	45
128 151	Enterprise Information Security Pgm	CW S	S2 05	905	0	0	0	0	905	0	905	0	0	0	0	0	0	782	0	123	0	905
145 152	Enterprise Architecture	CW S	S2 05	483	0	0	0	0	483	0	483	0	0	0	0	0	0	0	0	483	0	483
46 154	Quality Assurance Testing Software Upgra	ade CW S	S5 03	75	0	0	200	0	275	0	275	0	0	0	0	0	0	0	0	275	0	275
128 155	Enterprise Information Security Pgm	CW S	S4 05	3,562	2,400	2,400	400	400	9,162	123	9,285	0	0	0	0	0	0	0	0	9,285	0	9,285
145 156	Enterprise Architecture	CW S	S5 05	500	0	0	0	0	500	0	500	0	0	0	0	0	0	0	0	500	0	500
159 157	I&T PPM Solution (Cloud) Implementation	CW S	S3 04	-500	0	-1,156	0	0	-1,656	0	-1,656	0	0	0	0	0	0	0	0	-1,656	0	-1,656
10 158	IT Service Process Improvement Program	CW S	S3 05	-498	200	655	0	0	357	0	357	0	0	0	0	0	0	0	0	357	0	357
0 159	Artificial Intelligence (AI) for SSHA and TP	PH CW S	S5 04	500	0	0	0	0	500	0	500	0	0	0	0	0	0	0	0	500	0	500
0 160	IT Audit Project Health Check Framework	CW S	S4 04	130	0	0	0	0	130	0	130	0		0	0	0	0	0	0	130	0	130
	Sub-total			9,227	3,757	3,546	600	400	17,530	123	17,653	259	0	0	0	0	0	1,479	0	15,915	0	17,653
ITP906883	Technology Infrastructure	014	04 05	000	4 000	0	•		4 000	0	4 000			0	0				0	4.000		4 000
0 32	Data Centre Zones Implementation	CW S		200	1,066	0	0	0	1,266	0	1,266	0		0	0	0	0	0	0	1,266	0	1,266
0 59 67 67	File Services Migration  TEMS REPLACEMENT-Design	CW S	S2 03 S2 03	586 450	170	549	0	0	1,305 450	0	1,305 450	0		0	0	0	0	0	0	1,305 450	0	1,305
20 76	Data Center Scope Change	CW S		5,151	0	0	0	0	5,151	0		0			5,151	0	0	0	0	0		5,151
20 77	Consolidated Data Centre	cw s		3,534	0	0	0	0	3,534	0	3,534	0			2,234	0	0	0	0	1,300	0	3,534
0 78	Business Applications Service Monitoring	CW S		150	150	280	0	0	580	0	580	0			0	0	0	0	0	580	0	580
68 79	DIRECTORY SERVICES - Implementation		S2 03	1,203	706	924	0	0	2,833	0	2,833	0		0	0	0	0	523	0	2,310	0	2,833
75 80	WAN High Speed Fibre Data Services	CW S		150	0	0	0	0	150	0	150	0			150	0	0	0	0	0	0	150
20 83	Consolidated Data Centre	CW S		0	1,600	0	0	0	1,600	0	1,600	0			1,600	0	0	0	0	0	0	1,600
0 84	Publicly Accessible Wi-Fi for City Facilities			287	650	282	0	0	1,219	0	1,219	0			0	0	0	0		1,219	0	1,219
				1 1						l		l .									ı	I

#### **CITY OF TORONTO**

Gross Expenditures (\$000's)

				İ		Curre	nt and Fu	ture Year	Cash Flov	w Commitn	nents			Cui	rent and Fu	ture Year	Cash Flow	Commi	itments F	inanced	Ву		
	roject No. Project Name ubProj No. Sub-project Name	Ward	Stat.	Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	C Reserve Funds C	apital from urrent	Other 1	Other2	Deb Recove Debt		Total Financing
ITP906883	3 Technology Infrastructure																						
0 85	Internal Private Cloud Services	CW	S4	04	1,533	1,777	0	0	0	3,310	0	3,310	0	0	0	0	0	0	0	0	3,310	0	3,310
	Sub-total				13,244	6,119	2,035	0	0	21,398	0	21,398	0	0	0	9,135	0	0	523	0	11,740	0	21,398
ITP90774	7 Corporate Initiatives																						
45 52	Web Bus. Cont. Refresh & Redesign	CW	S2	04	22	0	0	0	0	22	0	22	0	0	0	0	0	0	0	0	22	0	22
0 54	HR ELECTRONIC SKILLS ASS. SOLUTION	N CW	S2	04	86	0	0	0	0	86	0	86	0	0	0	0	0	0	0	0	86	0	86
0 69	WORKFLOW AUTOMATION & TRACKING	CW	S2	04	58	0	0	0	0	58	0	58	0	0	0	0	0	0	30	0	28	0	58
20 75	Work Mgmt Solution-Transportation	CW	S2	04	2,350	0	1,200	0	0	3,550	0	3,550	0	0	0	0	0	0	0	0	3,550	0	3,550
0 81	Major Cap Infrastructure Project Coord. (TOINView)	CW	S2	05	305	116	309	0	0	730	0	730	0	0	0	0	0	0	0	0	730	0	730
30 86	OCC HEALTH & SAFETY APP 2016-2019	CW	S2	04	516	0	30	0	0	546	0	546	0	0	0	0	0	0	516	0	30	0	546
20 98	Work Mgmt Solution-Transportation Scope Change	CW	S2	04	1,496	4,835	3,094	2,062	340	11,827	566	12,393	0	0	0	0	0	0	0	0	12,393	0	12,393
80 99	CAPITAL PROJECT PLANNING SYS ENHANCEMENTS	CW	S2	04	81	0	0	0	0	81	0	81	0	0	0	0	0	0	0	0	81	0	81
6 100	Enterprise eLearning HR	CW	S2	04	281	0	0	0	0	281	0	281	0	0	0	0	0	0	203	0	78	0	281
84 101	eRecruitment	CW	S2	04	1,135	0	0	0	0	1,135	0	1,135	0	0	0	0	0	0	0	0	1,135	0	1,135
30 102	OCC HEALTH & SAFETY APP 2016-2019	CW	S2	04	201	762	399	0	0	1,362	0	1,362	0	0	0	0	0	0	0	0	1,362	0	1,362
0 105	DLAN Cloud Services Implementation	CW	S2	03	165	0	0	0	0	165	0	165	0	0	0	0	0	0	0	0	165	0	165
0 106	Toronto Building-CRM-Enhanced Complain Management	t CW	S2	04	428	539	0	0	0	967	0	967	0	0	0	0	967	0	0	0	0	0	967
0 107	TOP - Online Donation Application	CW	S2	04	309	201	0	0	0	510	0	510	0	0	0	0	0	0	309	0	201	0	510
0 108	SDFA- Online Grant Management System	CW	S2	04	184	50	0	0	0	234	0	234	0	0	0	0	0	0	184	0	50	0	234
0 109	Wellbeing Toronto v3 2018	CW	S2	03	450	0	0	0	0	450	0	450	0	0	0	0	0	0	450	0	0	0	450
20 110	Work Mgmt Solution-Transportation Scope Change	CW	S3	04	-1,496	-4,835	-3,094	-2,062	-340	-11,827	-566	-12,393	0	0	0	0	0	0	0	0	-12,393	0	-12,393
0 112	Workforce Business Intel. Requirements	CW	S4	05	1,020	1,448	0	0	0	2,468	0	2,468	0	0	0	0	0	0	0	0	2,468	0	2,468
0 113	PTP Enhancements	cw	S4	04	390	0	0	0	0	390	0	390	0	0	0	0	0	0	0	0	390	0	390
0 114	Corporate Geospatial Strategy Roadmap Implementati	cw	S4	04	309	1,125	826	730	0	2,990	0	2,990	0	0	0	0	0	0	0	0	2,990	0	2,990
0 116	eRecruitment	CW	S4	04	2,899	563	0	0	0	3,462	0	3,462	0	0	0	0	0	0	0	0	3,462	0	3,462

#### **CITY OF TORONTO**

Gross Expenditures (\$000's)

	orma	lion & recimology																						
							Curre	ent and F	uture Year	Cash Flo	w Commitn	nents			Cu	rrent and Fu	ıture Year Ca	sh Flow	Commit	tments F	inanced I	Ву		
<u>Su</u> Pri		<u>oject No.                                    </u>	Ward	Stat.	Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Re Reserves Fi	serve unds C	Capital from Current	Other 1	Other2	Debt Recover Debt	able	Total Financing
ITP	07747	Corporate Initiatives																						
0	117	CloudBasedHumanResourcesInformationSyst(CHRIS)	s CW	S4	04	5,334	562	0	0	0	5,896	0	5,896	0	C	0	0	0	0	0	0	5,896	0	5,896
0	118	HR Labour Relations Information System (LRIS)	CW	S4	04	505	0	0	0	0	505	0	505	0	C	0	0	0	0	0	0	505	0	505
0	119	Enterprise eLearning Initiative (ELI) Agreement	CW	S4	04	277	0	0	0	0	277	0	277	0	C	0	0	0	0	0	0	277	0	277
0	120	EDHR - Complaints Management System	CW	S4	02	300	15	15	15	0	345	0	345	0	C	0	0	0	0	0	0	345	0	345
		Sub-total				17,605	5,381	2,779	745	0	26,510	0	26,510	0	C	0	0	967	0	1,692	0	23,851	0	26,510
ITP	07907	Resources to Deliver IT Capital Projects																						
0	1	Capital Portfolio Resource Requirements	CW	S2	03	2,749	0	0	0	0	2,749	0	2,749	0	C	0	2,749	0	0	0	0	0	0	2,749
0	3	Capital Portfolio Resource Requirement	CW	S2	03	144	0	0	0	0	144	0	144	0	C	0	144	0	0	0	0	0	0	144
		Sub-total				2,893	0	0	0	0	2,893	0	2,893	0	C	0	2,893	0	0	0	0	0	0	2,893
ITP	07951	2012 Core Service Review - Service Efficience	cies																					
0	7	Asset Management Solution - Transportation	n CW	S2	04	835	0	0	0	0	835	0	835	0	C	0	0	0	0	0	0	835	0	835
		Sub-total				835	0	0	0	0	835	0	835	0	C	0	0	0	0	0	0	835	0	835
WE	S90712	8 BUSINESS SUSTAINMENT SYSTEMS																						
0	132	Web Information Portal on Dvlpmnt Applications	CW	S2	04	7	0	0	0	0	7	0	7	0	C	0	0	0	0	0	0	7	0	7
0	138	Toronto Building Electronic Service Delivery	CW	S2	04	49	0	0	0	0	49	0	49	0	C	0	0	49	0	0	0	0	0	49
142	153	MLS Centralized Datamart	CW	S2	04	776	0	0	0	0	776	0	776	0	C	0	776	0	0	0	0	0	0	776
0	156	MLS Modernization-Phase 2	CW	S2	04	0	0	1,175	0	0	1,175	0	1,175	0	C	0	0	0	0	1,175	0	0	0	1,175
160	167	OnLine Portal Services for City Planning	CW	S2	04	794	480	0	0	0	1,274	0	1,274	0	C	0	0	0	0	235	0	1,039	0	1,274
0	169	System Enhancements for Licensing Services - MLS	CW	S2	05	24	0	0	0	0	24	0	24	0	C	0	0	0	0	0	0	24	0	24
0	170	Electronic Service Delivery Portal-Bldg Permits	CW	S2	04	1,175	0	0	0	0	1,175	0	1,175	0	C	0	0	0	0	0	0	1,175	0	1,175
0	174	ECS Capital Project and Program Management Process	CW	S2	04	82	0	0	0	0	82	0	82	0	C	0	0	0	0	0	0	82	0	82
0	175	Review and Improve Document Management Capabilitie	CW	S2	04	181	0	0	0	0	181	0	181	0	C	0	0	0	0	0	0	181	0	181
0	181	MLS Modernization-Phase 2	CW	S2	04	2,500	2,489	4,629	0	0	9,618	0	9,618	0	C	0	0	0	0	0	0	9,618	0	9,618
160	182	Business Sys Improvements - ECS Phase 2	CW	S2	04	455	0	0	0	0	455	0	455	0	C	0	0	0	0	0	0	455	0	455
15	185	IBMS Review & Transformation	CW	S2	03	1,898	2,087	1,701	0	0	5,686	0	5,686	0	C	0	0	3,311	0	0	0	2,375	0	5,686

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Report Phase 2 - Program 30 Information & Technology Program Phase 2 Part B Sub-Project Status S2 Part C Sub-Project Status S2, S3,S4,S5 Sub-Project Category 01,02,03,04,05,06,07 User Fields ALL

#### **CITY OF TORONTO**

Gross Expenditures (\$000's)

		Current and Future Year Cash Flow Commitments								Cui	rent and F	uture Year	Cash Flo	w Commi	tments F	inanced	Ву		
Sub- Project No. Project Name PrioritySubProj No. Sub-project Name Ward Stat. Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal Subsidy	Development Charges	Reserves	Reserve Funds	Capital from Current	Other 1	Other2	Del Recov Debt	erable	Total Financing
WES907128 BUSINESS SUSTAINMENT SYSTEMS																			
155 186 Integrated Business Mgmt System - Review CW S4 03 and Trans	0	379	0	0	0	379	0	379	0	0	0	0	0	0	0	0	379	0	379
0 188 MLS Centralized DataMart CW S4 04	600	1,800	0	0	0	2,400	0	2,400	0	0	0	0	0	0	0	0	2,400	0	2,400
Sub-total	8,541	7,235	7,505	0	0	23,281	0	23,281	0	0	0	776	3,360	0	1,410	0	17,735	0	23,281
Total Program Expenditure	91,280	28,889	20,044	3,959	1,850	146,022	1,425	147,447	259	0	0	33,672	4,327	0	5,636	0	103,553	0	147,447

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Report 7Ca

Report Phase 2 - Program 30 Information & Technology Program Phase 2 Part B Sub-Project Status S2 Part C Sub-Project Status S2, S3,S4,S5 Sub-Project Category 01,02,03,04,05,06,07 User Fields ALL

#### **CITY OF TORONTO**

Gross Expenditures (\$000's)

١	Information	&	Technology	

	C	urrent and	rrent and Future Year Cash Flow Commitments and Estimates							Current	and Future	Year Cas	h Flow C	ommitme	nts and	Estimates	Finan	ced By	
<u>Sub- Project No. Project Name</u> Priority SubProj No. Sub-project Name Ward Stat. Cat.	2019	2020	2021	2022	2023	Total 2019-2023	Total 2024-2028	Total 2019-2028	Provincial Grants and Subsidies	Federal De Subsidy	velopment Charges		Reserve Funds	Capital from Current	Other 1	Other2		Debt - ecoverable	Total Financing
Financed By: Provincial Grants & Subsidies	259	0	0	0	0	259	0	259	259	0	0	0	0	0	(	0 0		0 0	259
Reserves (Ind. "XQ" Ref.)	32,072	1,600	0	0	0	33,672	0	33,672	0	0	0	33,672	0	0	(	0 0		0 0	33,672
Reserve Funds (Ind."XR" Ref.)	1,526	1,450	1,351	0	0	4,327	0	4,327	0	0	0	0	4,327	0	(	0 0		0 0	4,327
Other1 (Internal)	4,461	0	1,175	0	0	5,636	0	5,636	0	0	0	0	0	0	5,630	6 0		0 0	5,636
Debt	52,962	25,839	17,518	3,959	1,850	102,128	1,425	103,553	0	0	0	0	0	0	(	0 0	103,55	3 0	103,553
Total Program Financing	91,280	28,889	20,044	3,959	1,850	146,022	1,425	147,447	259	0	0	33,672	4,327	0	5,630	6 0	103,55	3 0	147,447

S2	S2 Prior Year (With 2019 and\or Future Year Cashflow)
S3	S3 Prior Year - Change of Scope 2019 and\or Future Year Cost\Cashflow)
S4	S4 New - Stand-Alone Project (Current Year Only)
S5	S5 New (On-going or Phased Projects)

#### Category Code Description 14 Health and Safety C01

Status Code Description

01	Health and Safety C01
02	Legislated C02
03	State of Good Repair C03
04	Service Improvement and Enhancement C04
05	Growth Related C05
06	Reserved Category 1 C06
07	Reserved Category 2 C07

## Appendix 9

### 2019 Capital Budget with Financing Detail

Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5

**CITY OF TORONTO** 



#### Information & Technology **Sub-Project Summary**

Project/Fi	nancing		2019	• • • • • • • • • • • • • • • • • • • •											
Priority P	roject Project Name	Start Date Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable		
<u>0</u> <u>ITP0</u>	00223 Network Upgrade														
0	54 Disaster Recovery Pgm. (Prev. BCP)	01/01/2006 12/31/2023	716	0	0	0	716	0	0	0	0	C	0		
57	60 Disaster Recovery	06/15/2016 06/15/2017	230	0	0	0	0	0	0	0	0	230	0		
57	62 Disaster Recovery	06/05/2019 06/05/2028	646	0	0	0	0	0	0	0	0	646	6 0		
58	61 Business Continuity	06/15/2017 06/15/2017	445	0	0	0	0	0	0	445	0	C	0		
58	63 Business Continuity	01/13/2019 12/31/2021	140	0	0	0	0	0	0	0	0	140	0		
		Project Sub-total:	2,177	0	0	0	716	0	0	445	0	1,016	6 0		
<u>0</u> <u>ITP9</u>	06881 Application Systems												_		
0	141 Domino Decommissioning Strat & Implementation	01/01/2015 12/31/2018	846	0	0	0	0	0	0	0	0	846	6 0		
0	148 Enterprise Business Intelligence Implementation	06/19/2017 06/19/2017	1,802	0	0	0	0	0	0	87	0	1,715	5 0		
0	149 AODA Compliance for City Applications	06/19/2017 06/19/2017	1,969	0	0	0	0	0	0	0	0	1,969	9 0		
0	152 Open Data Master Plan Implementation	06/19/2017 06/19/2017	878	0	0	0	0	0	0	0	0	878	3 0		
0	153 SAP Solution Manager v7.2 Upgrade (SOGR)	06/19/2017 06/19/2017	564	0	0	0	0	0	0	0	0	564	1 0		
0	154 Geospatial Tool Enhancements	06/19/2017 06/19/2017	253	0	0	0	0	0	0	0	0	253	3 0		
0	155 eTime Enterprise Rollout	09/27/2017 09/27/2017	1,441	0	0	0	0	0	0	0	0	1,441	0		
0	158 Enterprise Documents and Records Management Phase2	01/04/2019 12/31/2019	1,375	0	0	0	0	0	0	0	0	1,375	5 0		
0	159 CLASS Replacement Planning	01/01/2019 12/31/2019	75	0	0	0	0	0	0	0	0	75	5 0		
0	160 eTime Scheduling Enterprise Rollout	01/01/2019 12/31/2023	1,970	0	0	0	0	0	0	0	0	1,970	0		
0	162 Project Portfolio Management System (SOGR)	01/01/2019 12/31/2023	465	0	0	0	0	0	0	0	0	465	5 0		
0	163 ECS Cloud Deployment-Construction Project and DMS	01/01/2019 12/31/2022	568	0	0	0	0	0	0	0	0	568	3 0		
0	164 Ent Doc & Record Mgmt Solution (ED-CHANGE IN SCOPE	01/04/2019 12/31/2019	750	0	0	0	0	0	0	0	0	750	0		
20	140 Enterprise Collaboration Foundation	01/01/2015 12/31/2018	2,001	0	0	0	0	0	0	0	0	2,001	0		
20	156 Enterprise Collaboration Foundation	06/13/2019 12/31/2019	1,649	0	0	0	0	0	0	0	0	1,649	9 0		
137	147 Enterprise Mobility Platform	06/15/2017 06/15/2017	930	0	0	0	0	0	0	0	0	930	0		
137	157 Enterprise Mobility Platform	06/13/2018 06/13/2018	-930	0	0	0	0	0	0	0	0	-930	0 0		
		Project Sub-total:	16,606	0	0	0	0	0	0	87	0	16,519	9 0		
<u>0</u> ITP9	06882 Corporate Planning & Management														
0	159 Artificial Intelligence (AI) for SSHA and TPH	01/04/2019 03/31/2021	500	0	0	0	0	0	0	0	0	500	0		
0	160 IT Audit Project Health Check Framework	01/27/2019 12/27/2019	130	0	0	0	0	0	0	0	0	130	0		
10	135 IT Service Process Improvement Program	01/01/2016 01/01/2020	1,209	0	0	0	0	0	0	0	0	1,209	9 0		
10	158 IT Service Process Improvement Program	06/19/2019 06/19/2020	-498	0	0	0	0	0	0	0	0	-498	3 0		
20	141 Application Portfolio Tools & Rationalization	02/01/2016 12/31/2019	1,437	0	0	0	0	0	0	287	0	1,150	0		
20	147 Application Portfolio T&R Scope Change	06/12/2017 06/12/2017	-650	0	0	0	0	0	0	0	0	-650	0		
46	144 Quality Assurance Testing Software Supgrade	01/01/2016 12/31/2018	200	0	0	0	0	0	0	0	0	200	0		

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Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5



## **CITY OF TORONTO**

#### Information & Technology **Sub-Project Summary**

Project/Fi	nancing		2019	1				Financ	ina				
Priority P	•	Start Date Completio		Provincial Grants	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From	Other 1	Other 2	Debt	Debt - Recoverable
	•	Date		Subsidies	Subsidy	Charges		runas	Current				Recoverable
<u>0</u> ITP9	06882 Corporate Planning & Management												
46	154 Quality Assurance Testing Software Upgrade	06/05/2019 06/05/202	75	0	0	0	0	0	0	0	0	75	0
69	133 eCity Program Renewal	01/01/2015 12/31/201	259	259	0	0	0	0	0	0	0	0	0
89	121 IT Risk Mgmt Framework	01/01/2014 12/31/201	1,070	0	0	0	0	0	0	410	0	660	0
127	150 Enterprise Solution Delivery Management Framework	06/15/2017 06/15/201	7 45	0	0	0	0	0	0	0	0	45	0
128	151 Enterprise Information Security Pgm	06/15/2017 06/15/201	905	0	0	0	0	0	0	782	0	123	0
128	155 Enterprise Information Security Pgm	06/05/2018 06/05/201	3,562	0	0	0	0	0	0	0	0	3,562	0
145	152 Enterprise Architecture	06/15/2017 06/15/201	7 483	0	0	0	0	0	0	0	0	483	0
145	156 Enterprise Architecture	06/05/2018 06/05/201	500	0	0	0	0	0	0	0	0	500	0
159	132 I&T PPM Solution (Cloud) Implementation	01/01/2015 12/31/201	500	0	0	0	0	0	0	0	0	500	0
159	157 I&T PPM Solution (Cloud) Implementation	06/13/2018 06/13/201	-500	0	0	0	0	0	0	0	0	-500	0
		Project Sub-total:	9,227	259	0	0	0	0	0	1,479	0	7,489	0
0 ITP9	06883 Technology Infrastructure												
0	32 Data Centre Zones Implementation	01/01/2015 12/31/201	3 200	0	0	0	0	0	0	0	0	200	0
0	59 File Services Migration	01/01/2018 12/31/202	586	0	0	0	0	0	0	0	0	586	0
0	78 Business Applications Service Monitoring	06/15/2017 06/15/201	7 150	0	0	0	0	0	0	0	0	150	0
0	84 Publicly Accessible Wi-Fi for City Facilities	01/04/2019 12/31/202	287	0	0	0	0	0	0	0	0	287	0
0	85 Internal Private Cloud Services	01/01/2019 12/31/202	1,533	0	0	0	0	0	0	0	0	1,533	0
20	76 Data Center Scope Change	01/01/2017 12/31/201	5,151	0	0	0	5,151	0	0	0	0	0	0
20	77 Consolidated Data Centre	06/12/2017 06/12/201	7 3,534	0	0	0	2,234	0	0	0	0	1,300	0
67	67 TEMS REPLACEMENT-Design	01/01/1216 12/31/201	7 450	0	0	0	0	0	0	0	0	450	0
68	79 DIRECTORY SERVICES - Implementation	06/15/2017 06/15/201	7 1,203	0	0	0	0	0	0	523	0	680	0
75	80 WAN High Speed Fibre Data Services	06/15/2017 06/15/201	7 150	0	0	0	150	0	0	0	0	0	0
		Project Sub-total:	13,244	0	0	0	7,535	0	0	523	0	5,186	0
0 ITP9	07747 Corporate Initiatives												
0	54 HR ELECTRONIC SKILLS ASS. SOLUTION	01/01/2016 12/31/201	7 86	0	0	0	0	0	0	0	0	86	0
0	69 WORKFLOW AUTOMATION & TRACKING	01/01/2016 12/31/201	1		0	0	0	0	0	30	0	28	0
0	81 Major Cap Infrastructure Project Coord. (TOINView)	01/31/2016 12/31/201	ł		0	0	0	0	0	0	0	305	0
0	105 DLAN Cloud Services Implementation	07/06/2017 07/06/201	ł		0	0	0	0	0	0	0	165	0
0	106 Toronto Building-CRM-Enhanced Complaint Management	07/06/2017 07/06/201			0	0	0	428	0	0	0	0	
0	107 TOP - Online Donation Application	07/06/2018 07/06/201	1		0	0	0	0	0	309	0	0	
0	108 SDFA- Online Grant Management System	01/02/2018 02/01/201	1		0	0	0	0	0	184	0	0	
0	109 Wellbeing Toronto v3 2018	01/01/2018 12/31/201	1		0	0	0	0	0	450	0	0	0
0	112 Workforce Business Intel. Requirements	07/01/2019 02/26/202			0	0	0	0	0	0	0	1,020	0
0	113 PTP Enhancements	08/13/2018 08/13/201	1		0	0	0	0	0	0	0	390	0
-			1	I									

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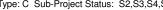
#### **CITY OF TORONTO**

#### Information & Technology **Sub-Project Summary**

Proiect/F	inancing		2019					Financ	ing				
Priority F	•	Start Date Completion Date	Cash Flow	Provincial Grants Subsidies	Federal Subsidy	Developmt Charges	Reserves		Capital From Current	Other 1	Other 2	Debt	Debt - Recoverable
0 ITPS	907747 Corporate Initiatives												
0	114 Corporate Geospatial Strategy Roadmap Implementati	01/01/2019 12/31/2022	309	0	0	0	0	0	0	0	0	309	0
0	116 eRecruitment	01/01/2019 12/31/2019	2,899	0	0	0	0	0	0	0	0	2,899	0
0	117 CloudBasedHumanResourcesInformationSystem (CHRIS)	01/01/2019 12/31/2019	5,334	0	0	0	0	0	0	0	0	5,334	0
0	118 HR Labour Relations Information System (LRIS)	01/01/2019 12/31/2019	505	0	0	0	0	0	0	0	0	505	0
0	119 Enterprise eLearning Initiative (ELI) Agreement	01/01/2019 12/31/2019	277	0	0	0	0	0	0	0	0	277	0
0	120 EDHR - Complaints Management System	11/07/2018 11/07/2018	300	0	0	0	0	0	0	0	0	300	0
6	100 Enterprise eLearning HR	06/15/2017 06/15/2017	281	0	0	0	0	0	0	203	0	78	0
20	75 Work Mgmt Solution-Transportation	01/01/2016 12/31/2018	2,350	0	0	0	0	0	0	0	0	2,350	0
20	98 Work Mgmt Solution-Transportation Scope Change	06/12/2017 06/12/2017	1,496	0	0	0	0	0	0	0	0	1,496	0
20	110 Work Mgmt Solution-Transportation Scope Change	06/13/2019 06/13/2018	-1,496	0	0	0	0	0	0	0	0	-1,496	0
30	86 OCC HEALTH & SAFETY APP 2016-2019	01/01/2017 12/31/2019	516	0	0	0	0	0	0	516	0	0	0
30	102 OCC HEALTH & SAFETY APP 2016-2019	06/15/2017 06/15/2017	201	0	0	0	0	0	0	0	0	201	0
45	52 Web Bus. Cont. Refresh & Redesign	01/01/2015 12/31/2017	22	0	0	0	0	0	0	0	0	22	0
80	99 CAPITAL PROJECT PLANNING SYS ENHANCEMENTS	06/15/2017 06/15/2017	81	0	0	0	0	0	0	0	0	81	0
84	101 eRecruitment	06/15/2017 06/15/2017	1,135	0	0	0	0	0	0	0	0	1,135	0
		Project Sub-total:	17,605	0	0	0	0	428	0	1,692	0	15,485	0
0 ITPS	907907 Resources to Deliver IT Capital Projects												
0	1 Capital Portfolio Resource Requirements	01/01/2013 12/31/2017	2,749	0	0	0	2,749	0	0	0	0	0	0
0	3 Capital Portfolio Resource Requirement	01/01/2014 12/31/2018		0	0	0	144	0	0	0	0	0	0
		Project Sub-total:	2,893	0	0	0	2,893	0	0	0	0	0	
<u>0 ITP</u>	907951 2012 Core Service Review - Service Efficiencies		,										
0	7 Asset Management Solution - Transportation	02/01/2015 12/31/2019	835	0	0	0	0	0	0	0	0	835	0
U	7 Asset Management Solution - Transportation	Project Sub-total:	835	0	0	0	0	0	0	0	0	835	
		Project Sub-total.	000	0	0	0	0	0	0	0	0	033	
	_906983 Asset Lifecycle Management												
9	57 Network Security Replacement	06/14/2017 06/14/2018	_	0	0	0	145	0	0	0	0	0	0
9	58 Network Security Replacement	06/05/2019 06/05/2028		0	0	0	360	0	0	0	0	0	0
15	46 Desktop Hardware Replacement	01/01/2016 12/31/2018	· ·	0	0	0	4,346	0	0	0	0	0	
15	52 Desktop Hardware Replacement	01/01/2019 12/31/2028	4,820	0	0	0	4,820	0	0	0	0	0	0
37	42 Enterprise Software Replacement	01/01/2016 12/31/2025		0	0	0	122	0	0	0	0	0	
37	49 Enterprise Software Replacement	01/01/2019 12/31/2028		0	0	0	1,037	0	0	0	0	0	
38	50 Enterprise Server Replacement	01/01/2019 12/31/2028		0	0	0	2,309	0	0	0	0	0	0
39	39 Enterprise Storage Replacement	01/01/2014 12/31/2023		0	0	0	83	0	0	0	0	0	0
39	44 Enterprise Storage Replacement	06/03/2015 06/03/2025	1,000	0	0	0	1,000	0	0	0	0	0	0

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Sub-Project Category: 01,02,03,04,05,06,07 Type: B Sub-Project Status: S2 Type: C Sub-Project Status: S2,S3,S4,S5





#### **CITY OF TORONTO**

#### Information & Technology **Sub-Project Summary**

Project/F	inancing		2019 Financing   Coch Flow   Provincial   Federal   Developmt   Peccargo   Peccargo   Capital   Other 1   Other 2   Debt   Debt										
Priority F	Project Project Name	Start Date Completion Date	Cash Flow	Grants	Federal Subsidy	Developmt Charges	Reserves	Reserve Funds	Capital From	Other 1	Other 2	Debt	Debt - Recoverable
				Subsidies					Current				
<u>8</u> <u>EOL</u>	<u> 906983 Asset Lifecycle Management</u>												
48	56 Network Asset Replacement	06/14/2017 06/14/2017	233	0	0	0	233	0	0	0	0	(	0
48	59 Network Asset Replacement	06/05/2019 06/05/2028	4,330	0	0	0	4,330	0	0	0	0	(	0
53	47 Desktop Software Replacement	01/01/2016 12/31/2025	362	0	0	0	362	0	0	0	0	(	0
53	53 Desktop Software Replacement	01/01/2017 12/31/2026	367	0	0	0	367	0	0	0	0	(	0
53	55 Desktop Software Replacement	01/01/2017 12/31/2026	638	0	0	0	638	0	0	0	0	C	0 0
		Project Sub-total:	20,152	0	0	0	20,152	0	0	0	0	(	0
107 WES	S907128 BUSINESS SUSTAINMENT SYSTEMS												
0	132 Web Information Portal on Dvlpmnt Applications	01/01/2014 12/31/2017	7	0	0	0	0	0	0	0	0	7	7 0
0	138 Toronto Building Electronic Service Delivery	01/01/2014 12/31/2017	49	0	0	0	0	49	0	0	0	(	0
0	169 System Enhancements for Licensing Services - MLS	01/01/2014 12/31/2017	24	0	0	0	0	0	0	0	0	24	4 0
0	170 Electronic Service Delivery Portal-Bldg Permits	06/14/2016 03/30/2018	1,175	0	0	0	0	0	0	0	0	1,175	5 0
0	174 ECS Capital Project and Program Management Process	10/26/2016 10/26/2016	82	0	0	0	0	0	0	0	0	82	2 0
0	175 Review and Improve Document Management Capabilitie	10/26/2016 10/26/2016	181	0	0	0	0	0	0	0	0	181	0
0	181 MLS Modernization-Phase 2	06/15/2017 12/31/2020	2,500	0	0	0	0	0	0	0	0	2,500	0
0	188 MLS Centralized DataMart	01/01/2019 12/31/2020	600	0	0	0	0	0	0	0	0	600	0
142	153 MLS Centralized Datamart	01/01/2016 12/31/2018	776	0	0	0	776	0	0	0	0	(	0
155	185 IBMS Review & Transformation	06/15/2017 06/15/2017	1,898	0	0	0	0	1,049	0	0	0	849	9 0
160	167 OnLine Portal Services for City Planning	01/01/2016 12/31/2018	794	0	0	0	0	0	0	235	0	559	0
160	182 Business Sys Improvements - ECS Phase 2	06/15/2017 06/15/2017	455	0	0	0	0	0	0	0	0	455	5 0
		Project Sub-total:	8,541	0	0	0	776	1,098	0	235	0	6,432	2 0
Program	Total:		91,280	259	0	0	32,072	1,526	0	4,461	0	52,962	2 0

Status Code Description

S2 Prior Year (With 2019 and\or Future Year Cashflow)

S3 S3 Prior Year - Change of Scope 2019 and\or Future Year Cost\Cashflow)

S4 S4 New - Stand-Alone Project (Current Year Only) S5

S5 New (On-going or Phased Projects)

**Category Code Description** 

01 Health and Safety C01

Legislated C02

03 State of Good Repair C03

Service Improvement and Enhancement C04 04

Growth Related C05

06 Reserved Category 1 C06 Reserved Category 2 C07 07

### Appendix 10

## Inflows and Outflows to/from Reserves and Reserve Funds 2019 Operating Budget

#### **Corporate Reserve / Reserve Funds**

		Projected Balance	Withdrawal	s (-) / Contrik	outions (+)
Reserve / Reserve Fund Name	Reserve / Reserve	as of Dec. 31, 2018 *	2019	2020	2021
(In \$000s)	Fund Number	\$	\$	\$	\$
Beginning Balance			17.8	28.0	38.2
Vehicle Reserve - IT Vehicles	XQ1509				
Withdrawals (-)					
Transfers to Capital					
Contributions (+)					
Transfers from Operating			10.2	10.2	10.2
<b>Total Reserve / Reserve Fund Draws</b>	/ Contributions	-	28.0	38.2	48.4
Balance at Year-End		17.8	28.0	38.2	48.4

<sup>\*</sup> Based on 9-month 2018 Reserve Fund Variance Report

		Projected Balance	Withdrawa	ls (-) / Contril	butions (+)
Reserve / Reserve Fund Name	Reserve / Reserve	as of Dec. 31, 2018 *	2019	2020	2021
(In \$000s)	Fund Number	\$	\$	\$	\$
Beginning Balance			434,550.1	434,250.1	433,950.1
Capital Financing Reserve	XQ0011				
Withdrawals (-)					
Transfers to Capital			(300.0)	(300.0)	(300.0)
Contributions (+)					
Transfers from Operating					
Other Program / Agency Net Withdraw	als & Contributions				
Balance at Year-End		434,550.1	434,250.1	433,950.1	433,650.1

<sup>\*</sup> Based on 9-month 2018 Reserve Fund Variance Report

		Projected Balance	Withdrawal	s (-) / Contrik	outions (+)
Reserve / Reserve Fund Name	Reserve / Reserve	as of Dec. 31, 2018 *	2019	2020	2021
(In \$000s)	Fund Number	\$	\$	\$	\$
Beginning Balance			31,921.8	32,050.5	32,179.1
Insurance Reserve Fund	XR1010				
Withdrawals (-)					
Transfers to Operating					
Transfers to Capital					
Contributions (+)					
Transfers from Operating			128.6	128.6	128.6
Total Reserve / Reserve Fund Draws / C	Contributions	390.9	32,050.5	32,179.1	32,307.7
Other Program / Agency Net Withdrawa	ls & Contributions				
Balance at Year-End		31,921.8	32,050.5	32,179.1	32,307.7

<sup>\*</sup> Based on 9-month 2018 Reserve Fund Variance Report

## Inflows and Outflows to/from Reserves and Reserve Funds 2019 – 2028 Capital Budget and Plan

#### **Corporate Reserve / Reserve Funds**

Reserve / Reserve		Projected					Contribut	tions / (With	ndrawals)				
Fund Name	Project / Sub Project Name	Balance as at	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	
(In \$000s)	and Number	Dec 31, 2018 *	Budget	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Total
XQ0011	Beginning Balance	434,550	434,550	432,234	430,634	430,634	430,634	430,634	430,634	430,634	430,634	430,634	
Capital Financing	Withdrawals (-)												
Reserve	Consolidated Data Center		(2,234)	(1,600)									(3,834)
	WAN High Speed Fibre												
	Data Services		(82)										(82)
	Total Withdrawals		(2,316)	(1,600)		-		-		-	-		(3,916)
	Contributions (+)												
													-
	Total Contributions	-		-		-		-		-	-	-	-
Other Program/Agenc	y Net Withdrawals and												
Contributions												-	
Balance at Year-End		434,550	432,234	430,634	430,634	430,634	430,634	430,634	430,634	430,634	430,634	430,634	(3,916)

<sup>\*</sup> Based on 9-month 2018 Reserve Fund Variance Report

Reserve / Reserve		Projected					Contribut	ions / (With	drawals)				
Fund Name	Project / Sub Project Name	Balance as at	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	
(In \$000s)	and Number	Dec 31, 2018 *	Budget	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Total
XQ1508	Beginning Balance	12,166	12,166	6,917	(4,148)	(3,919)	(3,839)	(8,144)	(8,895)	(20,924)	(22,715)	(23,859)	
Vehicle Reserve - IT	Withdrawals (-)												
Sustainment			(26,546)	(32,362)	(21,068)	(21,217)	(25,602)	(22,048)	(33,326)	(23,088)	(22,441)	(26,819)	(254,517)
	Total Withdrawals		(26,546)	(32,362)	(21,068)	(21,217)	(25,602)	(22,048)	(33,326)	(23,088)	(22,441)	(26,819)	(254,517)
	Contributions (+)												
			21,297	21,297	21,297	21,297	21,297	21,297	21,297	21,297	21,297	21,297	212,970
	Total Contributions		21,297	21,297	21,297	21,297	21,297	21,297	21,297	21,297	21,297	21,297	212,970
Balance at Year-End		12,166	6,917	(4,148)	(3,919)	(3,839)	(8,144)	(8,895)	(20,924)	(22,715)	(23,859)	(29,381)	(41,547)

<sup>\*</sup> Based on 9-month 2018 Reserve Fund Variance Report