



STAFF REPORT ACTION REQUIRED

Presentation: 2016-2025 TTC Capital Budget Status Update

Date:	September 15, 2015
To:	TTC Budget Committee
From:	Chief Executive Officer

Summary

A presentation entitled: 2016-2025 TTC Capital Budget Status Update will be submitted to the Budget Committee for discussion.

Contact

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2016-2025 TTC CAPITAL BUDGET STATUS UPDATE

TTC Budget Committee Meeting
September 15, 2015



2016-2025 TTC CAPITAL BUDGET STATUS UPDATE



Capital Budget 2016 – 2025

Request

- TTC Base Capital Budget \$ 9.2B
- TYSSE \$ 0.7B
- Scarborough Subway Extension \$ 3.5B

Total - Request

\$13.4B

Other

- Projects for Future Consideration

\$ 4.6B

Total

\$18.0B

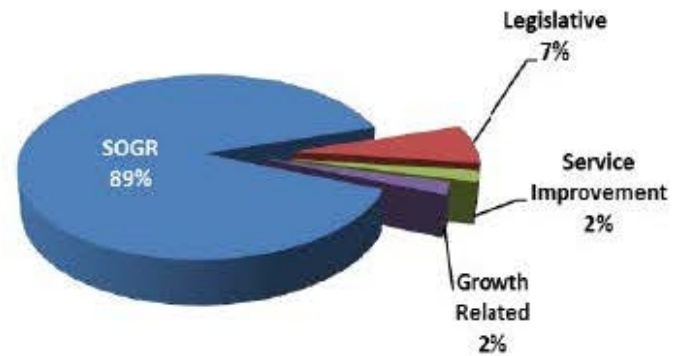




BASE CAPITAL BUDGET

Ten Year Envelope
By Major Category
(\$Millions)

	<u>2016</u>	<u>2016-2025</u>	
SOCR	1,026	8,235	89%
Legislative	79	636	7%
Service Improvement	33	184	2%
Growth Related	21	205	2%
<i>Total</i>	<i>1,159</i>	<i>9,260</i>	<i>100%</i>



2016-2025 TTC CAPITAL BUDGET STATUS UPDATE

TTC PROPOSED 2016-2025 BASE CAPITAL BUDGET

Vehicles:

(\$Millions)

Purchase of Buses	1,063	}	\$3,871	42%
Purchase of Subway Cars	952			
Purchase of LRVs	962			
Vehicle Overhaul Programs (Bus, Subway, Streetcar)	779			
Purchase of NRV/NRV Overhaul	115			

Infrastructure Projects:

Track Programs	732	}	\$5,389	58%
Electrical Systems	379			
Signal Systems (Incl. YUS (\$302) and BD (\$301))	691			
Finishes	164			
Equipment	269			
Yard & Roads	186			
Bridges & Tunnels	503			
Building & Structures:				
- Fire Ventilation Upgrade	296			
- Easier Access Phase III	429			
- TR/T1 Rail Yard Accommodation	403			
- McNicoll Bus Garage	175			
- Leslie Barns	63			
- Other Building & Structure Projects	461	1,827		
Environmental Projects	92			
Information Technology	379			
Other Projects	167			

Total - Base Program Request

\$9,260



2016-2025 TTC CAPITAL BUDGET STATUS UPDATE

(\$ Millions)

SUMMARY OF CHANGES

\$3,434 Total Change 2016-2025 (from 2015-2024 Council Approved)
(\$2,342) Unfunded Projects

↳ **\$1,092 Net Increase from 2015-2024 Council Approved**
(\$ 814) 2025 Additional year for existing projects

↳ **\$ 278 Net Increase**
(\$ 22) New Projects (2016-2025)

↳ **\$256 Net Change to 2016-2024**
(\$142) Slippage/Carry Forward

↳ **\$114 Net Change**



2016-2025 TTC CAPITAL BUDGET STATUS UPDATE



For 2016-2024, there is \$2,342 million for previously identified but Unfunded Projects including:

- \$616 million for Purchase of 372 Subway Cars
- \$361 million for Purchase of 60 Streetcars (Ridership Growth)
- \$256 million for Bus Overhaul
- \$165 million for Easier Access III (AODA)
- \$132 million for Fire Ventilation Upgrade
- \$102 million for Bridges and Tunnels
- \$102 million for Finishes (Roofing Rehab)
- \$100 million for Purchase of Future Wheel Trans Buses
- \$ 90 million for On-Grade Paving Rehabilitation Program
- \$ 89 million for Purchase of 99 Buses
- \$ 80 million for Subway Track Program
- \$ 69 million for Surface Track Program
- \$ 51 million for Train Door Monitoring



2016-2025 TTC CAPITAL BUDGET STATUS UPDATE



The \$814 Million request relates to the 10th Year -2025 for Existing Projects including:

- \$299 million for Purchase of Subway Cars
- \$ 121 million for Purchase of Buses
- \$ 72 million for Track Work (Subway and Surface)
- \$ 50 million for Bridges/Tunnels
- \$ 41 million for BD ATC Resignalling
- \$ 36 million for Bus Overhaul
- \$ 24 million for Fire Ventilation Upgrade
- \$ 24 million for Subway Car Overhaul
- \$ 23 million for Easier Access III
- \$ 22 million for Traction Power
- \$ 19 million for New LRV Overhaul
- \$ 13 million for Yards & Roads
- \$ 12 million for Equipment
- \$ 9 million for IT Systems



2016-2025 TTC CAPITAL BUDGET STATUS UPDATE



2016-2024 CAPITAL BUDGET - New Projects, \$22 million including:

- \$ 12 million for Rail Milling Workcar
- \$ 5 million for Integrated Communication System (ICS) Replacement
- \$ 5 million for IFS Enhancements & Claims Litigation Management Software Improvements



2016-2025 TTC CAPITAL BUDGET STATUS UPDATE



For 2016-2024, \$114 million* for all other changes (existing projects) includes:

- \$ 163 million for Purchase of Buses
- \$ 20 million for CAD/AVL System
- \$ 23 million for Turnstile Replacement (PRESTO Faregates)
- \$ 16 million for Fire Ventilation Upgrade
- \$ 13 million for Subway Track Rehabilitation
- \$ 10 million for Leslie Barns
- \$ 10 million for Geometric/NDT Track Inspection Workcar
- \$ 9 million for Duncan Shop - Ventilation Upgrade
- \$ 7 million for Other Bridges and Tunnels
- \$ 5 million for Other Signal System Projects
- \$ 4 million for Wilson ITS Back-Up Centres
- \$ 4 million for Greenwood Shop/Subway/SRT Car Carhouse Shop Equipment
- \$ 3 million for Storage Tank Replacements
- \$(136) million for Bus Overhaul
- \$ (39) million for BD ATC Resignalling

* *Note: Net of carryforward of \$142 million*



2016-2025 TTC CAPITAL BUDGET STATUS UPDATE

TTC PROPOSED 2016 BASE CAPITAL BUDGET

	(\$Millions)	
<u>Vehicles:</u>		
Purchase of 50 (\$14M) & 380 (\$65M) Low Floor 40' Diesel Buses	79	} \$493 43%
Purchase of 126 (\$3M) & 60 (\$21M) Subway Cars	24	
Purchase of 204 (\$158M) & 60 (\$55M) LRV Cars	214	
Vehicle Overhaul Programs (Bus, WT, Subway, Streetcar)	154	
Other (Non-Revenue Vehicle Purchase & Overhaul)	22	
<u>Infrastructure Projects:</u>		
Track Programs	62	} \$666 57%
Electrical Systems	57	
Signal Systems (Incl. YUS (\$56M) and BD (\$1.5M))	76	
Finishes	15	
Equipment	32	
Yard & Roads	13	
Bridges & Tunnels	50	
Building & Structures:		
- Fire Ventilation Upgrade	24	
- Easier Access Phase III	40	
- TR/T1 Rail Yard Accommodation	38	
- McNicoll Bus Garage	2	
- Leslie Barns	34	
- Other Building & Structure Projects	<u>48</u>	
Environmental Projects	10	
Information Technology	89	
Other Projects	76	
Total - Base Program Request	<u>\$1,159</u>	





Toronto York Spadina Subway Extension (EFC \$2.78B*)

- The Toronto-York Spadina Subway Extension project is jointly funded by the Government of Canada, the Province of Ontario, the City of Toronto and the Regional Municipality of York;
- The in service date is now targeted for late 2017;
- Project “reset” underway;
- Report by year end on the final cost of the project, once detailed evaluation and negotiation has been undertaken on contractor claims.

* Includes \$150 million approved by Council on March 31, 2015





Scarborough Subway Extension (\$3.6B)

- Replace aging Scarborough RT with a 7.6 km Scarborough Subway Extension;
- Scarborough Subway: 2016-2025 \$3.3B; EFC \$3.3B;
- SRT Life Extension – Facilities, Equipment & Vehicle: 2016-2025 \$119M; EFC \$132B;
- SRT Decommissioning & Demolition: 2016-2025 \$123M.





Additional Considerations

- AODA legislation compliance by 2025 (including Easier Access, AODA communications upgrade, fleet, bus stops)
- Bus Life (18 to 15 years)
- Option re: 60 Additional LRVs
- Fire Ventilation Upgrades
- Various Studies underway that could lead to new projects in future:
 - ❖ Interchange Station Rehabilitation–Eglinton Crosstown LRT (EFC \$200K, Future Needs TBD)
 - ❖ Yonge-Bloor Capacity Improvements (Prelim. Design Study \$6M, Future needs EFC TBD)
 - ❖ Station Capacity Study for Increase passenger Demand (EFC \$300K, Future Needs TBD)
 - ❖ Downtown Relief Line Study \$6M; Future needs TBD
 - ❖ Platform Edge Doors (PEDs) \$1M; Future needs TBD
 - ❖ Rail Yards Needs Assessment Study; Property Acquisition TBD
- Sufficiency of budget in later years



2016-2025 TTC CAPITAL BUDGET STATUS UPDATE



Projects for Future Consideration – EFC\$5.6B

	<u>(\$Millions)</u>
TTC Recommended Projects:	<u>EFC</u>
Transit Shelters & Loops	6
Lighting in Open Cut Subway Right of Way Below the line	12
Warden (Phase 1 & 2)	66
Islington Station Improvements	74
Station Modernization Program	111
Subway Station Fire Alarm Modifications	2
Centre Platform and Stairway Tactile Wayfinding Tile Upgrade	7
Skylights Replacement Project	35
Electrical Substation Upgrade and Leak Remediation	2
New Davisville Facility Detail Design and Construction	400
Yonge Bloor Capacity Improvements	1,084
Platform Edge Doors Bloor Danforth Line	614
Platform Edge Doors YUS Line	554
Fire Ventilation Upgrade	1,493
Park Lawn Loop	18
Commuter Parking Expansion - RGS Kipling & Islington	9



2016-2025 TTC CAPITAL BUDGET STATUS UPDATE



Projects for Future Consideration – EFC\$5.6B (Continued)

	<u>(\$Millions)</u>
TTC Recommended Projects (continued):	<u>EFC</u>
New Shelters	14
McBrien Building Renovations	26
Bus Rapid Transit (BRT) Yonge Street from Finch Station to Steeles Avenue	28
Forward Facing Dash Cameras	6
Vehicle Dash Board Cameras (Streetcars)	1
Dual Cab Electric Flatcar With Boom	3
Rail Yard Property Acquisition	TBD
TTC Recommended Projects	<u>4,565</u>
Waterfront Initiatives Projects:	
Purchase 5 Additional LRT Cars - West Donlands Streetcar Line	30
Purchase of 4 Additional LRT Cars -Bremner Blvd Streetcar Line	24
Purchase of 6 Additional LRT Cars - East Bayfront Streetcar Line	36
Port Lands Streetcar Expansion	200
East Bayfront Streetcar and Station Expansion	434
Bremner Streetcar Expansion	261
Waterfront Initiative Projects	<u>985</u>
Total - Recommended Projects for Future Consideration	<u>5,550</u>



2016-2025 TTC CAPITAL BUDGET STATUS UPDATE



Base Budget Funding

2016-2025 Capital Budget Funding Summary											
\$Millions											
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	Total
2016-2025 Gross Budget Request	1,159	1,208	1,120	1,210	951	646	833	670	649	814	9,260
City Debt	498	530	502	380	139	16	0	0	0	252	2,317
Other Funding	<u>661</u>	<u>678</u>	<u>527</u>	<u>468</u>	<u>391</u>	<u>326</u>	<u>278</u>	<u>283</u>	<u>290</u>	<u>256</u>	<u>4,158</u>
2016-2025 Total Funding Available	1,159	1,208	1,029	849	530	342	278	283	290	508	6,475
Funding (Surplus)/Shortfall	0	0	92	361	421	304	555	387	359	306	2,785
<i>Note: Does not include TTC Projects for Future Consideration</i>											



2016-2025 TTC CAPITAL BUDGET STATUS UPDATE



2016-2025 PROPOSED UNFUNDED PROJECTS LIST		
(\$Millions)		
<u>PROJECT</u>	<u>2016-2025</u>	<u>Decision Date *</u>
Fire Ventilation Upgrade	(182)	2017
Purchase of 675 40' LF Buses	(605)	2018
201 Replacement Wheel-Trans Buses	(100)	2017
372 Replacement Subway Cars	(915)	2017
Bus Overhaul	(138)	2019
Train Door Monitoring System - T1 & TR	(21)	2016
60 New LRVs for Growth	(361)	2016
Capacity to Spend Opportunities *	(463)	2016
Total	<u><u>(2,785)</u></u>	
Request of \$9.3B versus funding available of \$6.5B = \$2.8B shortfall		



2016-2025 TTC CAPITAL BUDGET STATUS UPDATE



10 - Year Capital Budget Comparison Base Program

(\$Billions)
 2014 - 2023 2015 - 2024 2016 - 2025
Approved Approved Request

Budget/Request	9.036	9.268	9.260
Funding Available	<u>6.493</u>	<u>6.901</u>	<u>6.475</u>
Shortfall/(Surplus)	<u>2.543</u>	<u>2.367</u>	<u>2.785</u>

