Revised: March/13

TORONTO TRANSIT COMMISSION REPORT NO.

MEETING DATE: December 9, 2014

SUBJECT: TTC OVERVIEW

INFORMATION ITEM

RECOMMENDATION

It is recommended that the Board receive a presentation for information.

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The Road to Modernization

Andy Byford, CEO Toronto Transit Commission

December 9, 2014
TTC Board Presentation

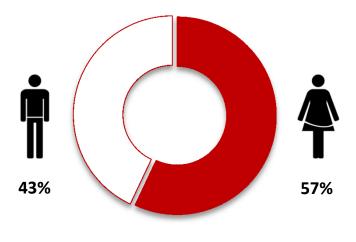


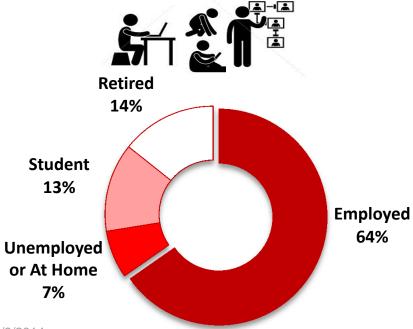
Agenda

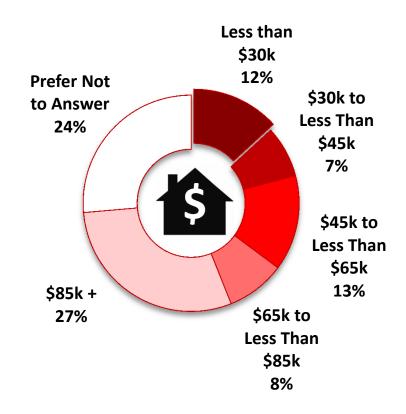
- 1. The TTC at a Glance
- 2. Making Progress
 - Building the Team
 - Laying the Foundations
 - Delivering Efficiencies
 - Getting Things Done
- 3. Looking Forward
- 4. Pulling It All Together
- 5. Next Steps and Final Thoughts



About Our Customers

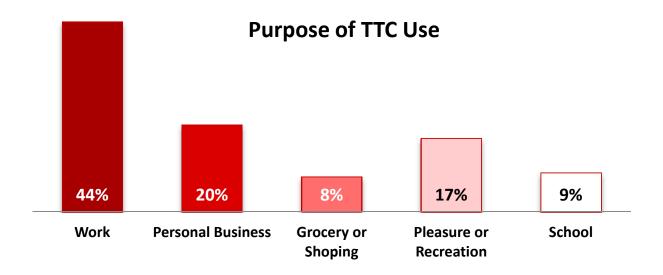




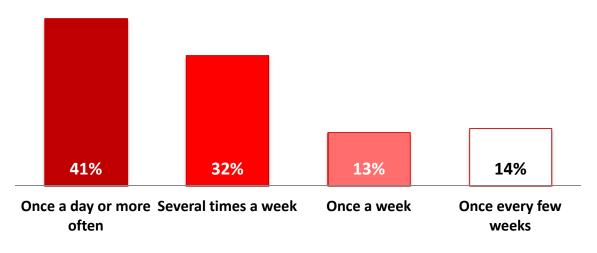




About Our Customers



Frequency of TTC Use





About Our Customers





Customers are
"Proud of TTC
and What it Means to Toronto"



About Our Customers





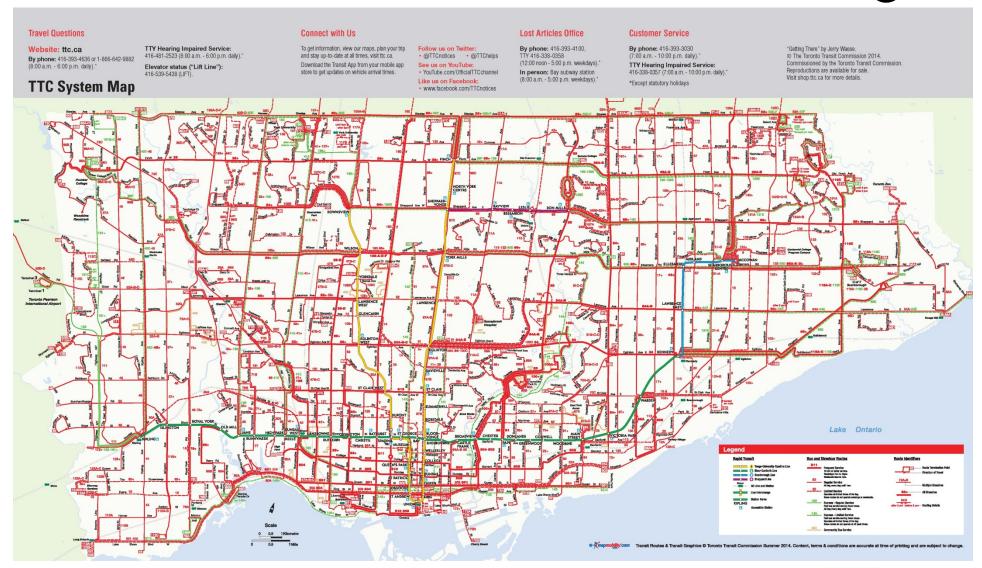
Believe Best Way to Improve is More Service



Believe Best Way to Improve is Lower Fare



Network



Network

540 Million Customer Trips / Year

Largest
in
Canada
3rd
Largest
in North
America

Fully Integrated & Multimodal (A True Strength)

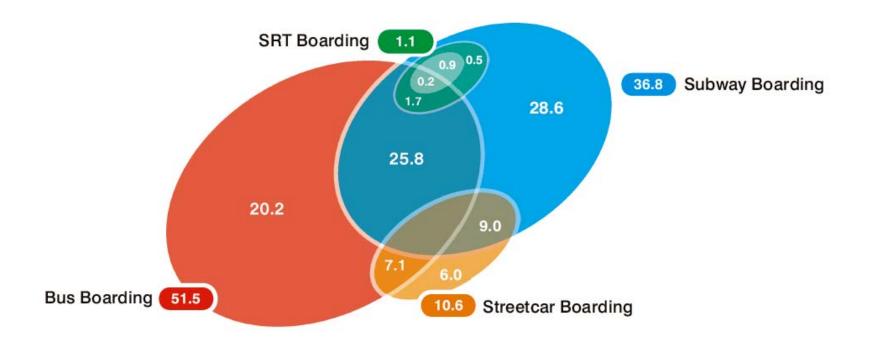
4 Subway Routes 11 Streetcar Routes 150 Bus Routes

Wheel Trans



Network

Fully Integrated & Multimodal (A True Strength)



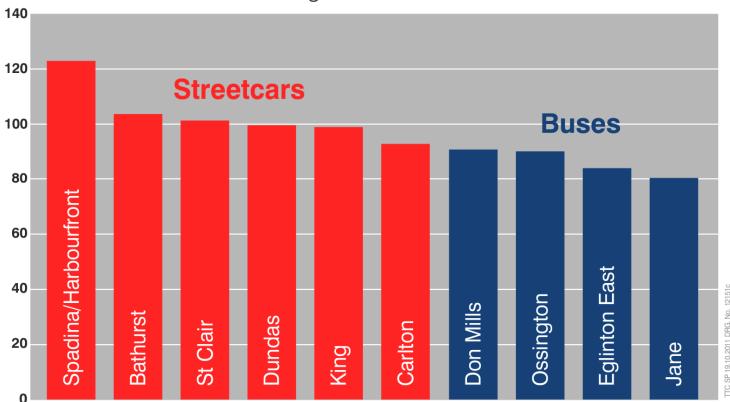
Network

Busies	st Routes	Ridership
1	Line 1 – Yonge University	750,000 / day
2	Line 2 – Bloor Danforth	500,000 / day
3	504 King	60,000 / day
4	510 Spadina / Harbourfront	55,000 / day
5	501 Queen	52,000 / day
6	Line 4 - Sheppard	50,000 / day
7	32 Eglinton West	50,000 / day
8	35 Jane	46,000 / day
9	Line 3 - SRT	45,000 / day
10	36 Finch West	44,000 / day

MATCHING MODE TO DEMAND

TTC's 10 Most Productive Routes

Passengers Per Service Hour



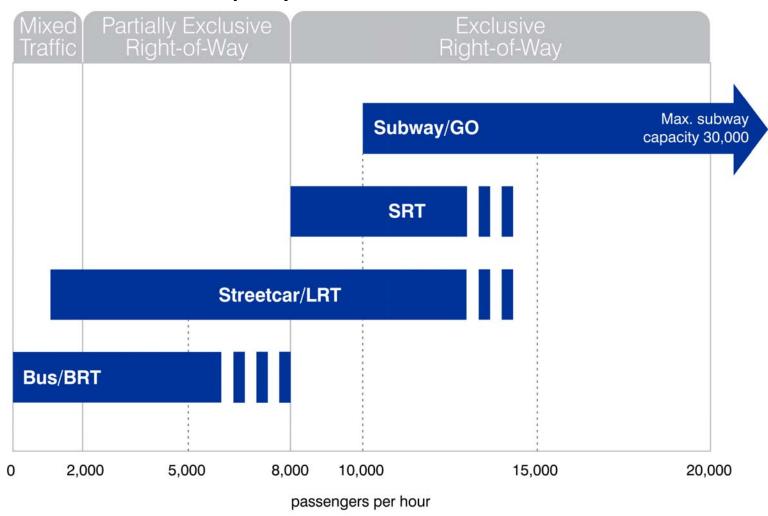
Matching mode to demand drives efficiency

- Subways efficient because of size of vehicle
- Streetcars come next
- Buses becoming more efficient with articulated buses



MATCHING MODE TO DEMAND (continued)

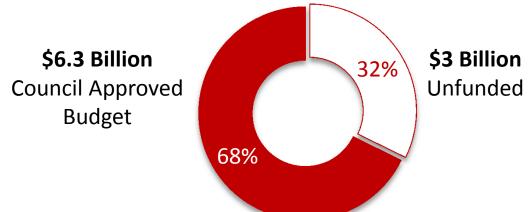
Capacity of different choices



2014-2023 Base Capital Budget

\$9.3 Billion over 10 Years

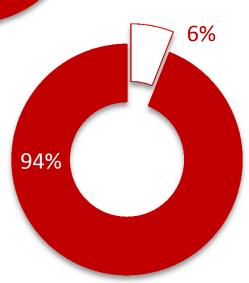
(TTC Requested Base Budget)



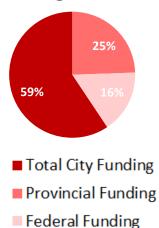


State of Good Repair

- Replace subway trains
- Replace buses
- New bus garage
- Subway track
- Bridges and tunnel



Funding Sources

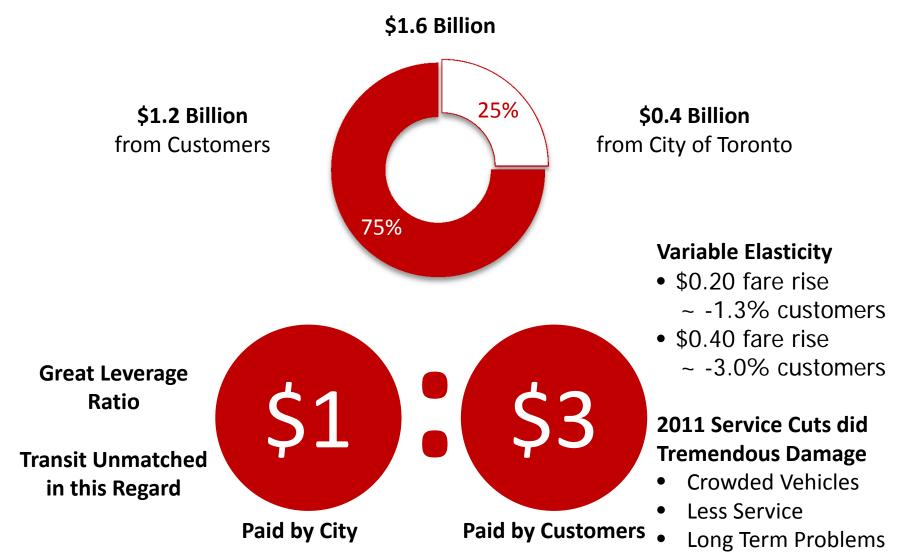


\$0.6 Billion

Other

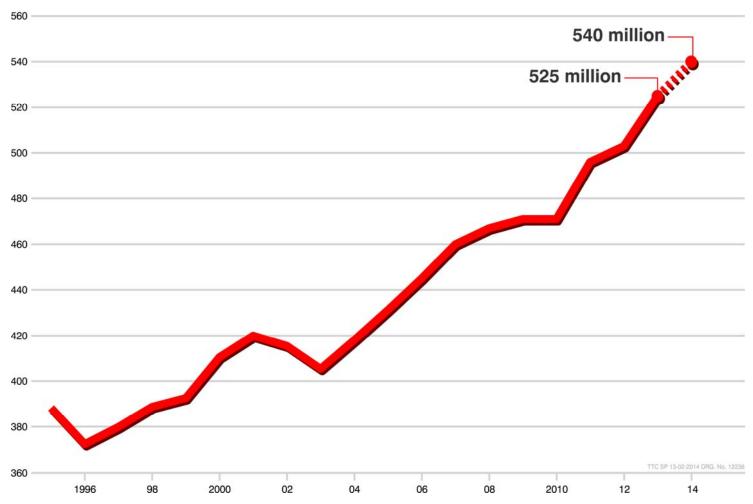
- Legislative
- Improvement, and
- Expansion

2014 Operating Budget



Ridership Demand







Operating Subsidy

Transit System	SUBSIDY (\$M)	REVENUE/ COST RATIO	TRIPS (M)	SUBSIDY/TRIP	
York Region	100	33%	22	\$4.49	
Durham Region	36	37%	10	\$3.46	
Brampton	52	45%	18	\$2.82	
Los Angeles	882	29%	349	\$2.53	
Mississauga	77	49%	35	\$2.21	
Philadelphia	527	36%	271	\$1.95	
Boston	506	38%	262	\$1.93	
Edmonton	151	43%	83	\$1.83	
Hamilton	38	48%	22	\$1.76	
Chicago	683	44%	407	\$1.68	
Ottawa	163	51%	101	\$1.62	
Vancouver	380	54%	235	\$1.62	
Calgary	150	53%	102	\$1.47	
Montreal	478	54%	413	\$1.16	
New York	2,365	60%	2,301	\$1.03	
TTC	411	73%	528	\$0.78	

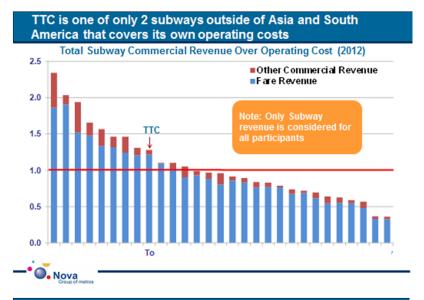
^{*}TTC 2013, Can 2012, US 2011 figures



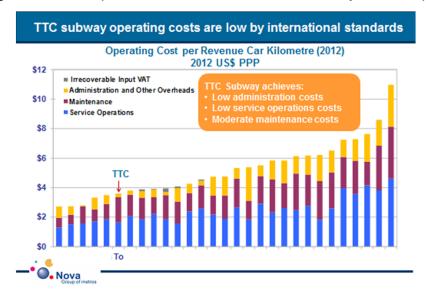
THE TTC AT A GLANCE

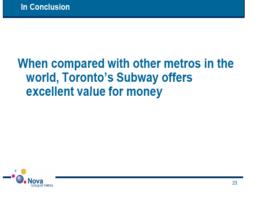
BENCHMARKS

COMET / NOVA world benchmarking studies (2012 numbers have improved)











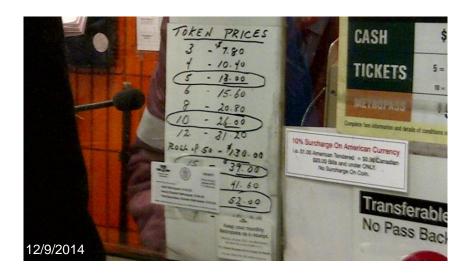
Making Progress



Laying the Foundations

2011 Quick Wins

- Immediate action taken
- Short term intervention required
- Challenge mediocrity
- Quick wins as evidence of credible management
- Credibility = support = funding
- Provided "goodwill" for inevitable disruptions
- Provided time to develop longer term plans





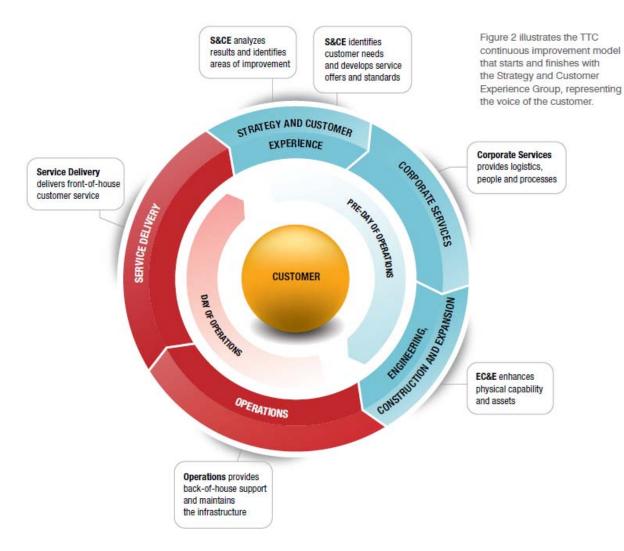
Laying the Foundations

2012 Immediate Priorities

- 1. Identify the vision, determine the philosophy
- 2. Develop a master plan, targets and tools
- 3. Get right people in right jobs in new structure
- 4. Hold everyone accountable
- 5. Delight the customer with quick wins
- 6. Re-engage employees
- 7. Re-engineer processes, systems and equipment
- 8. Visible, effective management
- 9. Rebuild stakeholder confidence
- 10. Get the basics right, all day, every day

Building the Team

Clear Purpose and Accountabilities



Building the Team

LEADERSHIP GROUP

Executive Team

- Broad range of experience and service
- Balance of new thinking and highly valuable corporate knowledge and experience

Time in Position



<5yrs



5 to 10



>10yrs

Time at TTC



Senior

Management Team

- International experience
- Attracting talent from other properties and from the private sector
- People want to work for the TTC again

Time in Position







Time at TTC



Building the Team

EMPLOYEE ENGAGEMENT

- Hearts and minds
- Capability vs Conduct
- Listening and engaging
 - Monthly "Meet the Exec"
 - 4 Town Halls for 2,000 staff
 - 100 Town Halls for 8,000 union employees
- Address issues such as:
 - Washroom cleanliness
 - Break rooms
 - Uniforms





Laying the Foundations

2013 - 2017 Corporate Plan

Developed a five year plan with seven Strategic Objectives:

- Safety
- Customer
- People
- Assets
- Growth
- Financial Sustainability
- Reputation

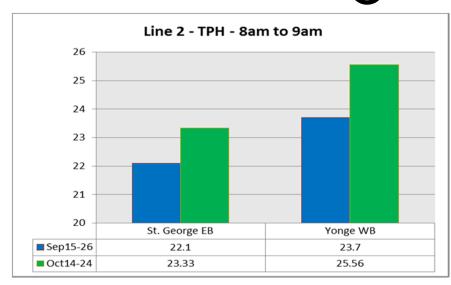


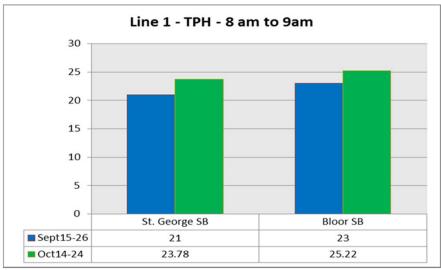
Each strategic objective supported by detailed action plans and tracking mechanisms

Subway Service



- New DCOO, new thinking
- Improved train throughput extra trains
- Improved journey times less holding of trains
- Improved end terminal operations less "blocking back"
- Safety and financial benefits



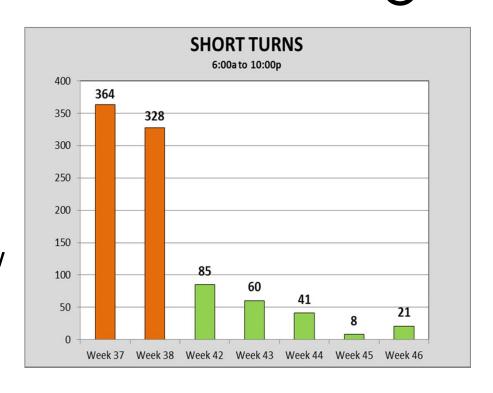




Bus & Streetcar Service



- New Chief Service Officer, new thinking
- Mandate to tackle bunching, gapping and short turns



- Intensive focus on 29 Dufferin bus and 512 St Clair streetcar
- Very positive customer feedback
- Techniques to be rolled out to other routes



(As of December 3, 2014)

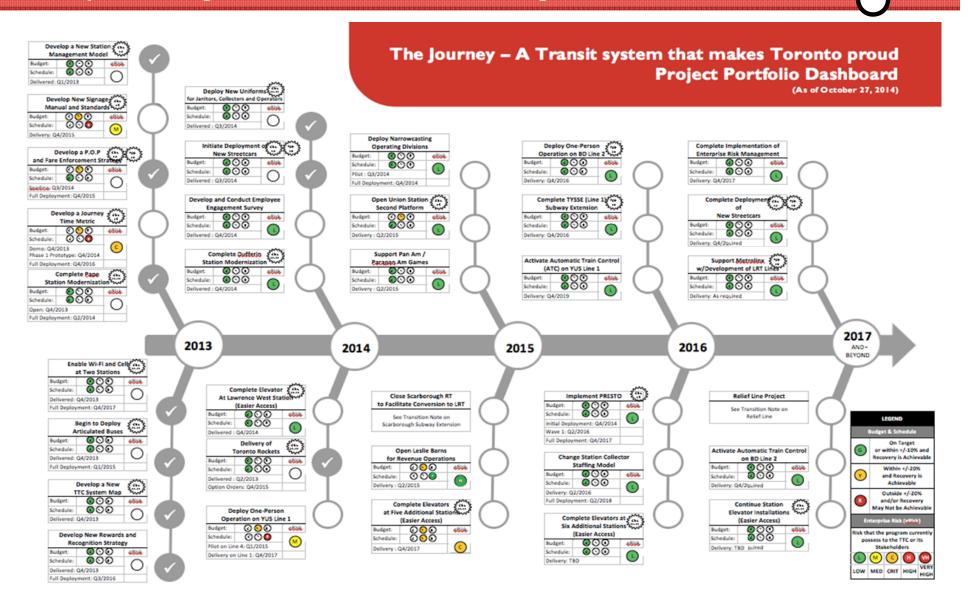
Key Initiative	Date Completed	Key Initiative	Date Completed
Develop a New Station Management Model	Q1 2013	Deploy Articulated Buses	Q4 2013
Delivery of Toronto Rockets	Q2 2013	Duty Station Manager Introduction	Q1 2014
Develop Corp Fire Safety Program	Q2 2013	Improved Wheel Trans Accessibility	Q2 2014
Approve Emergency Management Program	Q3 2013	Implement System Cleanliness - Stations	Q2 2014
Develop Positive Political Engagement	Q4 2013	Establish Support Persons Id	Q2 2014
Complete Pape Station Modernization	Q4 2013	Pilot Narrowcasting at Operating Divisions	Q3 2014
Enable Wi-Fi and Cell at Two Stations	Q4 2013	Corporate Emergency Plan	Q3 2014
Develop a New TTC System Map	Q4 2013	Carry Out Wheel Trans Survey	Q3 2014
Develop Employee Rewards and Recognition	Q4 2013	Accommodate Customer Call Volume	Q3 2014
Implement Operator Refresher & Recert.	Q4 2013	Develop a P.O.P & Fare Enforcement Strategy	Q3 2014



(As of December 3, 2014)

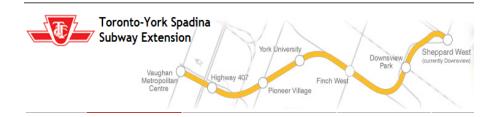
Key Initiative	Date Completed	Key Initiative	Date Completed
Deploy New Uniforms	Q3 2014	Pilot Increase Subway Run Time	Q4 2014
Create Case for a Revenue Protection Team	Q3 2014	Pilot Double Step Backs at End of Terminal	Q4 2014
Create Subway Car Fleet & Facility Plan	Q3 2014	Complete Emergency Mgmt Simulations	Q4 2014
Initiate New Streetcar Deployment	Q3 2014	Complete Station Modernization at Dufferin	Q4 2014
Create Bus Fleet & Facility Plan	Q3 2014		
Create Streetcar Fleet & Facility Plan	Q3 2014		
Carry Out Town Halls	Q4 2014		
Conducted Employee Engagement Survey	Q4 2014		
Complete Subway Stn Track Level Cleaning	Q4 2014		
Complete Subway Stn Wall Cleaning	Q4 2014		

Project, Program, and Portfolio Management



MEGA-PROJECT 1: SPADINA EXTENSION

- Tunnels are complete
- Stations progressing
- Track being laid
- Schedule is at risk
- International panel brought in to review options on remaining work
- Everything possible will be done to protect budget and schedule



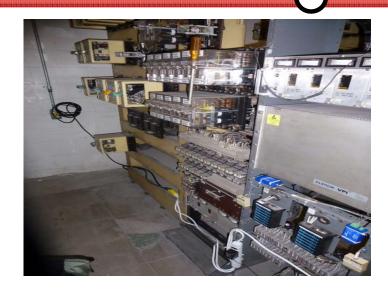






MEGA-PROJECT 2: AUTOMATIC TRAIN CONTROL (ATC)

- Union to Eglinton signals are original 1954 equipment
- System is safe but increasingly unreliable
- First task is to replace existing equipment and make it reliable
- Then install ATC
- This is painstaking, safety critical work that can only be undertaken when trains are not running
- The capacity hike and transformed reliability will be worth the wait





MEGA-PROJECT 3: PRESTO

- Contract signed in 2013
- 14 stations in operation today
- New streetcars went live last month
- 11 additional stations will be online in 2015
- Full roll-out by 2017
 - Exploring options to expedite
 - New faregates a visible change
- Allows for new pricing models
- Free up "Collectors"





MEGA-PROJECT 4: NEW STREETCARS

- 204 state-of-the art streetcars
- Very positive customer feedback
- Car house opens Q2 2015
- Presto enabled
- Roll-out plan and fleet plan developed
- Additional mitigation on 504 King
- Proof of Payment and fare inspection regime



- **MEGA-PROJECT 5: CULTURE CHANGE**
 - Our hardest challenge but arguably, the most important
 - To be world class, we need our customers to feel valued
 - We want staff to "think like a customer"
 - Employee engagement is therefore critical
 - Signature policy of the CEO
 - Early, encouraging signs of progress



Delivering Efficiencies

- Since 2011 significant savings \$35+ million / yr
- Corporate downsizing
 - Eliminated 300 administrative positions = \$21.6m / yr
- Articulated buses
 - More efficient vehicles = \$5.7m / yr
- Contracted out garbage, public washrooms, service line = \$2m / yr
- Joint purchasing with City
 - Employee benefits, electricity, diesel = \$3m / yr
- Push province to change accident claims
 - "No crash, no cash" = \$2-5m / yr
- New Collective Agreement
 - No new WT garage (\$190M), same fleet, reduced OT (\$1M+)





OPPORTUNITIES TO IMPROVE TRANSIT NOW

- 1. All door boarding and POP on streetcars
- Reduce waiting and crowding on bus & streetcar routes
- 3. Ten-minute-or-better route network
- 4. Express bus route network
- 5. Transit priority measures
- 6. Improve service reliability
- 7. Operate all routes all day, every day
- 8. Time-based transfer
- 9. Expand overnight bus and streetcar service



OPPORTUNITIES TO IMPROVE TRANSIT NOW

- Significant improvements to on-time performance via:
 - Queue jump lanes
 - Transit signal priority
 - Parking restrictions
 - Signal changes (left turn etc.)
 - Implementation of CAD/AVL = reduction in bunching/gapping/short turns
- Time-based transfers in 2015
- Off-peak improvements in 2015
- Expanded overnight service in 2015
- Peak improvements in 2017
- Increased express buses in 2017
- Net annual cost by end of 2017 = \$51m



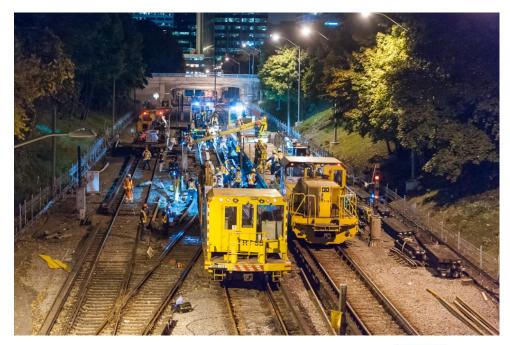
OPPORTUNITIES TO IMPROVE TRANSIT NOW

- New streetcars on most routes
 - +40% capacity
- Marked improvement in subway performance
 - Reduction in signal failures
 - Reliability and capacity with SRT improvements
- Transit Priority on arterials
- PRESTO delivered





- Introducing business case methodology
- Asset management strategy underway
 - Life cycle costing
 - Preventative maintenance rather than on failure
- Enterprise RiskManagement
- Health, Safety and Environment
- All help guide priority



- Fare purchase Debit and Credit
 - 2012 expanded Metropass from 8 stations to all 69
 - All products at all stations by end of 2014
- Station partnerships
 - Development entrance connections and refurbishment
- Bunching and Gapping
 - Have improved on-time by 10% cut short turns by 50%
 - Modern control system (CAD/AVL) purchased and now being executed
- New signal system on Line 1 (+25% capacity)

- One person operation on subway
 - Eliminate Guard position for savings and improved reliability (pilot early 2015)
- Surface Vehicle Control (CAD / AVL)
 - Unified control room, deploy supervisors, address bunching / gapping / short turns
- Automate processes (SAP)
 - Finance / HR etc
- Top to bottom organizational review

TAKING THE TOUGH DECISIONS (1)

- We run our buses for longer hours, and for more years than most other properties
- We need to double bus reliability to equal best practice
- A two year program will achieve this and deliver more buses on the road
- This is an example of shortterm pain for long-term gain





TAKING THE TOUGH DECISIONS (2)

- In many areas, track is 50-60 years old
- Track and signals are safe but worn-out and increasingly unreliable
- We must bite the bullet and undertake work that should have been addressed 10 years ago
- This will mean more weekend closures, bus shuttles and cost but the benefit will be worth it



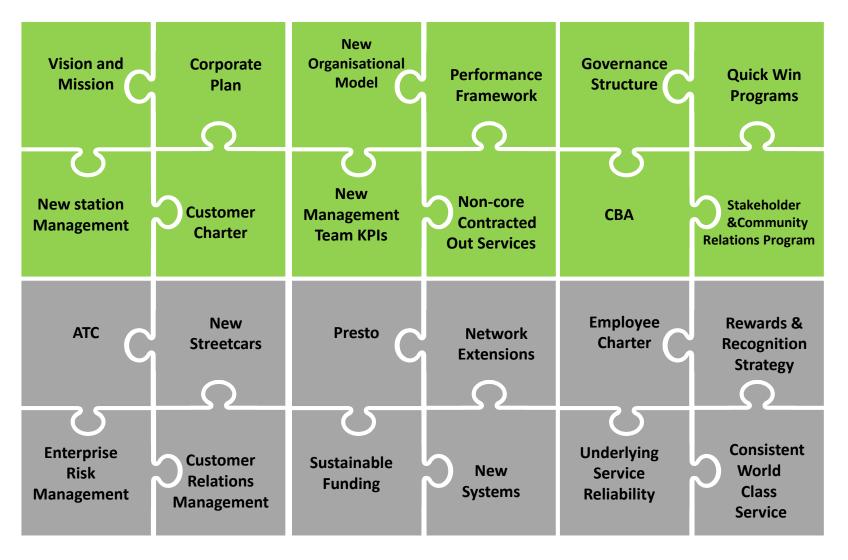




Pulling It All Together



PULLING IT ALL TOGETHER



Next Steps and Final Thoughts



NEXT STEPS AND FINAL THOUGHTS

Continue to Make Progress:

- Aggressive internal targets:
 50% cut in delays (all modes)
 over the next 5 years
- Support Pan Am Games
- Refreshed 5 year plan



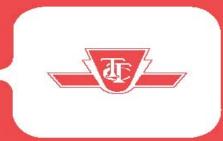
What we need from you:

- Clear and strong stewardship and advocacy
- Challenge when appropriate
- Time to enable us to embed change

Thank you

Our Vision — A transit system that makes Toronto proud





Toronto Transit Commission • Five-Year Corporate Plan 2013-2017