# 1ST REPORT OF THE LTC LONG TERM GROWTH REPORT WORKING GROUP

Meeting held on December 7, 2011, commencing at 12:21 p.m.

PRESENT: Councillor N. Branscombe (Chair), Councillors J. L. Baechler, J. P. Bryant J. Swan, H. Usher and S. White and F. Berry and D. Winninger and H. Lysynski (Secretary).

ALSO PRESENT: G. Barrett, J. Braam, S. Brook, A. Cook, B. Debbert, L. Ducharme, M. Elmadhoon, J. Ford, A. Hynes, K. Killen, I. Listar, J. Lucas, S. McNally, S. Meksula, D. Menard, N. Musicco, L. Palarchio, K. Paleczny, C. Parker, C. Roy, C. Smith, B. Turcotte, J. Yanchula and P. Yeoman.

#### YOUR COMMITTEE RECOMMENDS:

#### Positive Economic Impacts from Transit Investment in London

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- 1. That the following actions be taken with respect to the <u>attached</u> presentation from Professor J. Casello, School of Planning, Department of Civil and Environmental Engineering, University of Waterloo, with respect to the positive economic impacts from transit investment in London:
- a) the Civic Administration **BE ASKED** to report back to the Civic Works Committee with respect to the following:
  - i) identifying the "true" cost of owning/operating a car;
  - ii) identifying the "true (inclusive cost of transportation economic, environmental, etc.;
  - the options of doing nothing or remaining status quo with respect to the Transportation Master Plan; and,
  - iv) identifying the cost of both alternatives and translating them into property tax costs;
- b) the London Transit Commission (LTC) **BE ASKED** to determine if a utility model could be undertaken, such as the parking authority; and,
- c) Professor Casello's presentation **BE FORWARDED** to the Civic Administration and the Municipal Council, and be placed on the City of London website.

### II YOUR COMMITTEE REPORTS:

#### Election of Chair and Vice- Chair

2. That the LTC Long Term Growth Report Working Group elected Councillor N. Branscombe as its Chair and Councillor J. L. Baechler, as its Vice-Chair for the term ending November 30, 2012.

#### Conventional Transit — Passenger Riding and Service Performance Update

- 3. (5) That the LTC Long Term Growth Report Working Group received the <u>attached</u> presentation and a communication dated December 7, 2011 from J.D. Ford, Director of Transportation and Planning and K.S. Paleczny, Director of Finance and Administration, London Transit Commission, with respect to an update on conventional transit, passenger riding and service performance.
- 4. That the LTC Long Term Growth Report Working Group noted and filed the following:

# 1st Report of the LTCWG

a) (1) the 1st Report of the LTC Long Term Growth Report Working Group from its meeting held on June 16, 2010;

#### Committee Appointments

b) (2) a Municipal Council resolution adopted at its meeting held on November 7, 2011 with respect to the appointment of Councillors H.L. Usher and S. White to the LTC Long Term Growth Report Working Group;

#### Resignation

c) (3) a Municipal Council resolution adopted at its meeting held on November 7, 2011 with respect to the resignation of Councillor D. Brown from the LTC Long Term Growth Report Working Group; and,

#### Transportation Master Plan

d) (4) an information report from the Acting Director, Roads and Transportation, with respect to the present status of the Transportation Master Plan.

**Next Meeting** 

5. That the LTC Long Term Growth Report Working Group will hold its next meeting at the Call of the Chair.

The meeting adjourned at 1:58 p.m.

# Positive Economic Impacts from Transit Investment in London

Jeffrey M. Casello Ph.D., P.E.
School of Planning
Department of Civil and Environmental Engineering
University of Waterloo

Presented to: Long Term Working Group – London City Council December 7, 2011



### **Presentation Overview**

- Understanding the benefits of "successful" public transport
- ❖ Assessing the success of London Transit
- Comparing recent investments / Land use changes amongst peer cities
- **❖** Making recommendations

The Economic impact of Transit Investment A National Survey

Prepared by

McCormick Rankin Corporation

Dr. Leff Casello, University of Waterloo

fox

The Canadian Urban Transit Association

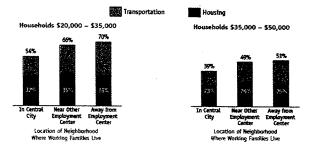
Final Report - 31 January 2010

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# Benefits of Public Transportation

#### Successful Transit Systems:

- Lower household transportation costs:
  - ✓ Transportation costs range from 15 40% of household expenditures; Larger burden in low-income households.
  - ✓ Presence of transit saves Canadian households \$5B annually;



WATERLOOPUBLICTRANSPORTATIONINITIATIVE Center for Clean Air Policy, (2009)

Advancing Transit Solutions through Research

# Benefits of Public Transportation

#### **Successful Transit Systems:**

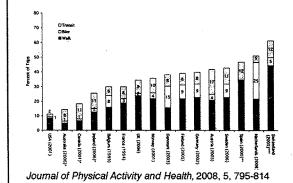
- Improve accessibility / mobility:
  - ✓ Likelihood of full time employment increases by 30% with access to transit (Kawabata, 2003);
  - ✓ Sanchez (1999) notes link between labor participation and access to transit;
  - ✓ As population ages, importance grows;
- ❖ Increase safety of transportation:
  - ✓ Transit fatality rate approximately 1/20<sup>th</sup> of autos;
  - ✓ Transit saves Canada approximately \$2.5B in reduced accidents / property damage

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# Benefits of Public Transportation

#### **Successful Transit Systems:**

Complement walking, cycling and active modes:





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# Benefits of Public Transportation

#### **Successful Transit Systems:**

- ❖ Mitigate Congestion:
  - √ 1 km of rail transit is 4x more effective than the 1 km of freeway;
  - ✓ In US cities, presence of LRT has slowed congestion growth;
  - ✓ Each pass-km of transit travel reduces congestion costs by \$0.30
  - ✓ In US, absence of transit would increase travel costs by \$18B
  - ✓ In Canada: estimated savings of \$5B.



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# Benefits of Public Transportation

#### **Successful Transit Systems:**

- ❖ Improve public health:
  - ✓ Transit riders average 19 minutes of daily walking;
  - ✓ 29% of transit riders average > 30 minutes;
  - ✓ Transit systems reduce obesity expenditures by \$4800 \$9900 per year;
  - ✓ In Canada:

RESULT		
Social and Community Benefit Account	Unit	Project Case
Public Health - Air Quality Hospital Admissions Avoided	Hospital admissions	157
Public Health - Air Quality Economic Damage Avoided	Economic Damage \$	\$115,312,394

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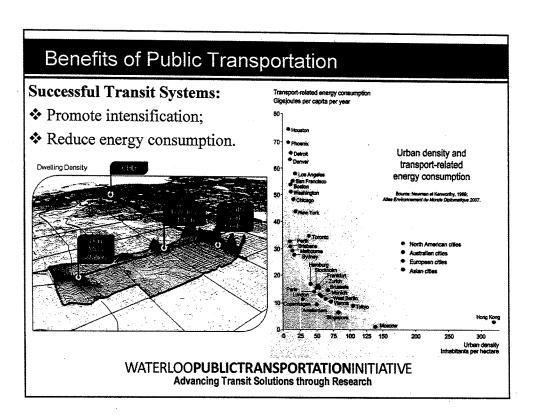
## Benefits of Public Transportation

#### **Successful Transit Systems:**

- ❖ Improve the local and global environment:
  - ✓ GHG emissions ½ to ¼ of auto emissions;
  - ✓ Emissions reductions save \$0.051 / passenger mile;

RESULTS		
Environmental Account	Unit	Project Case
GhG Emissions Savings	Tonnes/Year	2,396,237
Monetary Value of GhG Emissions Savings	\$ (Total)	\$110,161,465
Critical Air Contaminants (CAC) Emission Savings	Tonnes/Year	119,319
Monetary Value of (CAC) Emissions Savings	\$ (Total)	\$22,390,790
Summary Metric: Environmental Benefits	\$ (Total)	\$132,552,255

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### Summary

#### **Successful Transit Systems:**

- Lower household transportation costs;
- Improve accessibility / mobility;
- ❖ Increase safety;
- Complement cycling and walking;
- ❖ Mitigate congestion;
- Contribute to public health;
- ❖ Improve local / global environments.

Is London Transit "Successful?"

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# LTC as a Successful System

#### **Using Traditional Metrics:**

❖ What is the R/C ratio – how much revenue is recovered from fares?

City	R/C	Rank
Toronto	70.4%	1
Légovelove	3.4.56	
Hamilton	51.4%	3
Windsor	48.5%	4
Mississauga	47.6%	5
Ottawa	47.2%	6
Barrie	46.6%	7
Brampton	43.5%	8
Kingston	43.3%	9
Guelph	42.6%	10
York Region	39.9%	11
Waterloo Region	37.6%	12
Oakville	35.8%	13
Thunder Bay	34.4%	14
Ontario	59.0%	-
Ontario + GO	61.6%	-

Data Source: 3-year average values from 2008-2010 CUTA Transit Fact Book

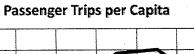
# WATERLOOPUBLICTRANSPORTATIONINITIATIVE Advancing Transit Solutions through Research

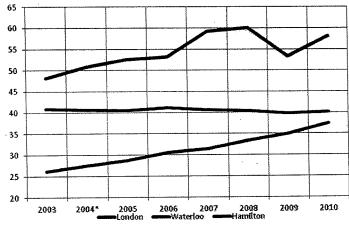
### LTC as a Successful System

### **Using Traditional Metrics:**

Data Source: 3-year average values from 2008-2010 CUTA Transit Fact Book

♦ How well-utilized is the system?





# LTC as a Successful System

#### **Using Traditional Metrics:**

♦ How efficiently does LTC deliver service?

City	Direct Operating Costs \$/rev-veh-kms	Rank
<b>Oakville</b>	\$2.20	1
Thunder Bay	\$2.30	2
Kingston	\$2.31	3
Sprack		/ / / / / /
Toronto	\$2.60	5
Guelph	\$2.61	6
Brampton	\$2.72	7
Mississauga	\$2.72	7
Ottawa	\$2.78	9
Hamilton	\$2.86	10
Barrie	\$2.88	11
Windsor	\$2.92	12
Waterloo Region	\$2.94	13
York Region	\$4.53	14
Ontario	\$2.73	-
Ontario + GO	\$2.77	T -

Data Source: 3-year average values from 2008-2010 CUTA Transit Fact Book Ontario + GO

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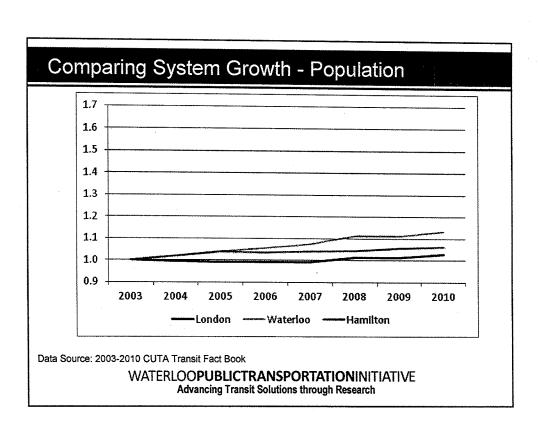
### Summary

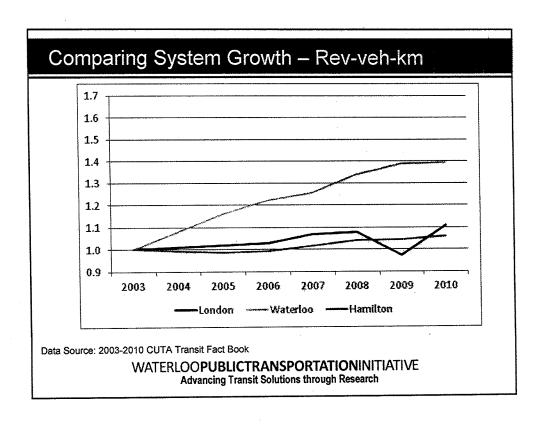
#### Compared to peer cities / agencies, LTC:

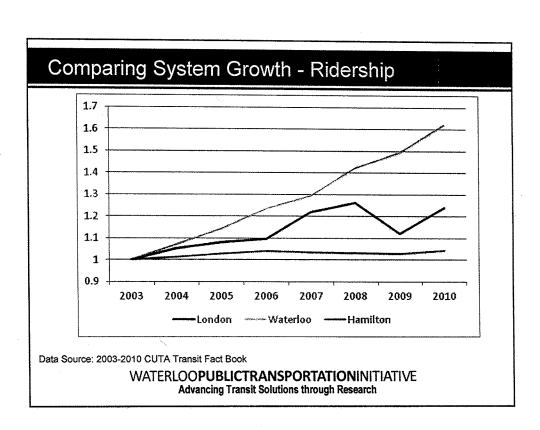
- ❖ Has very positive R/C ratios;
- ❖ Has very high utilization;
- ❖ Delivers services very efficiently.

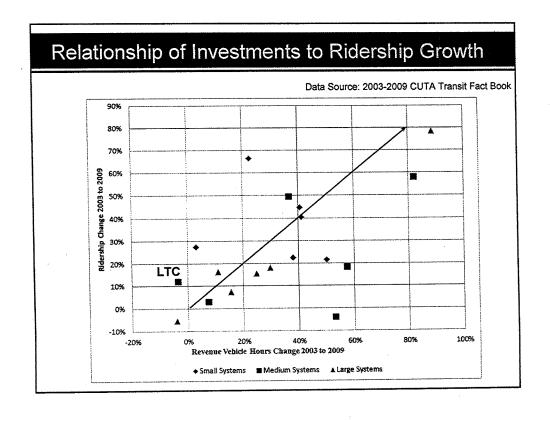
Can London Transit be "More Successful?"

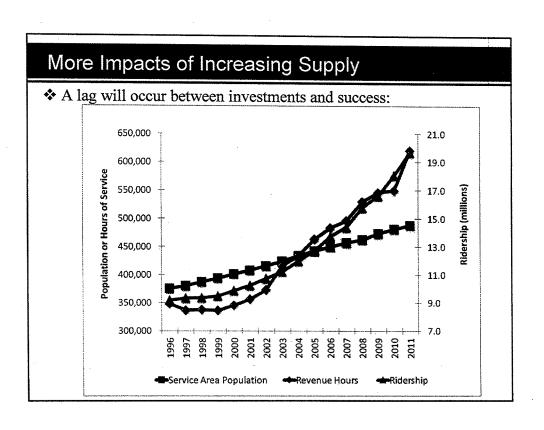
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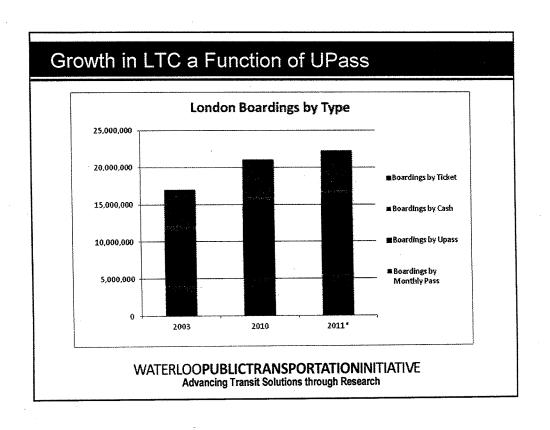




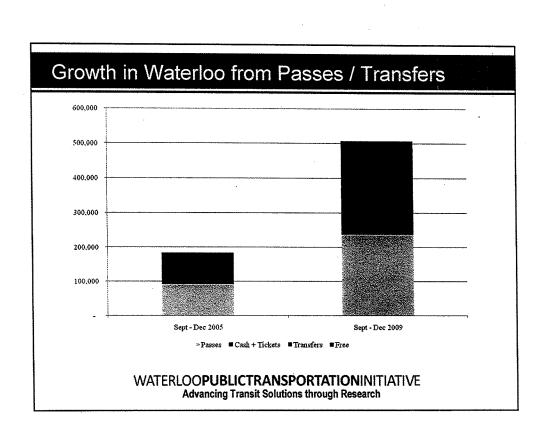


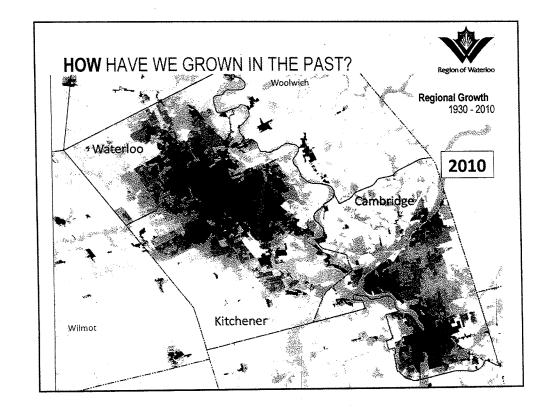


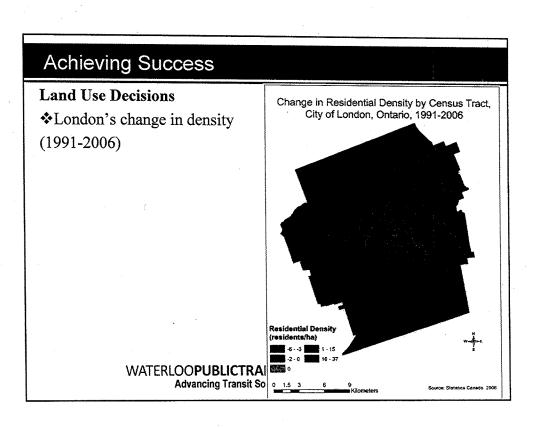


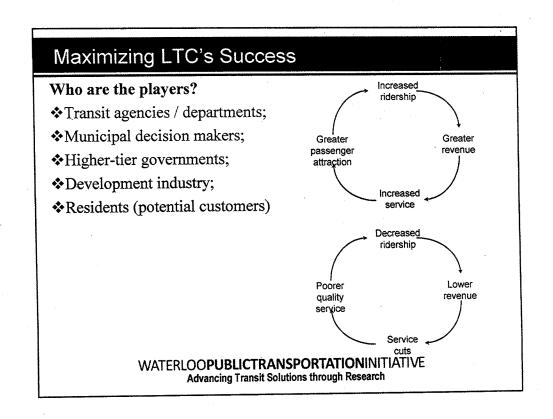


Agenda Item # Page #





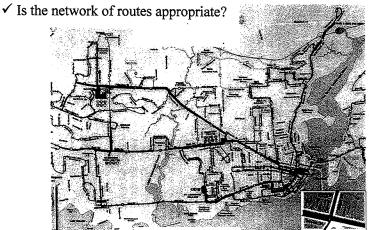




# **Achieving Success**

### Who are the players / what are the metrics?

❖Transit agencies / departments:

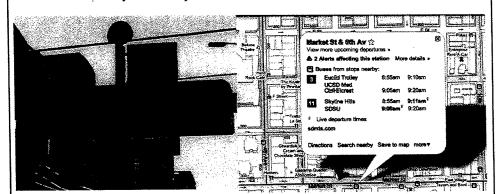


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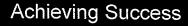
## **Achieving Success**

### Who are the players / what are the metrics?

- ❖Transit agencies / departments:
  - ✓ Is the system reliable?
  - ✓ Does the system compete with alternative modes?

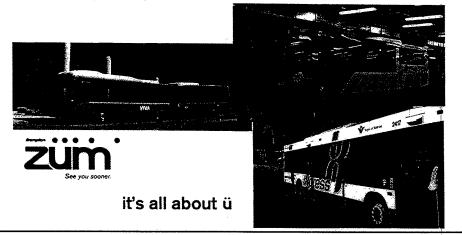


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#### Who are the players / what are the metrics?

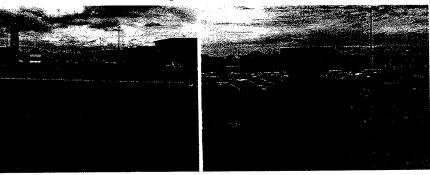
- ❖Councils / staff who develop and implement policy:
  - ✓ Is there a sense of innovation?
  - ✓ Protect and promote your brand!



## **Achieving Success**

#### Who are the players / what are the metrics?

- ❖Councils / staff who develop and implement policy:
  - ✓ Are decisions (land use, parking, design) made that are contrary to transit goals?
  - ✓ Are economic incentives possible?



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# Going Forward

#### Recommendations

- **\$LTC**:
  - ✓ The system is poised to grow very rapidly!
  - ✓ Make good decisions infrastructure, technology, routing;
  - ✓ Continue to deliver service efficiently;
  - ✓ Use the data that you're gathering to document quality;
  - ✓ Create and emphasize your image.
- ❖ Municipal decision-makers:
  - ✓ Consider express / ROW upgrades;
  - ✓ Understand long term costs / benefits of land use decisions;
  - ✓ Think long term;
  - ✓ Ask the right questions of your transit planners.

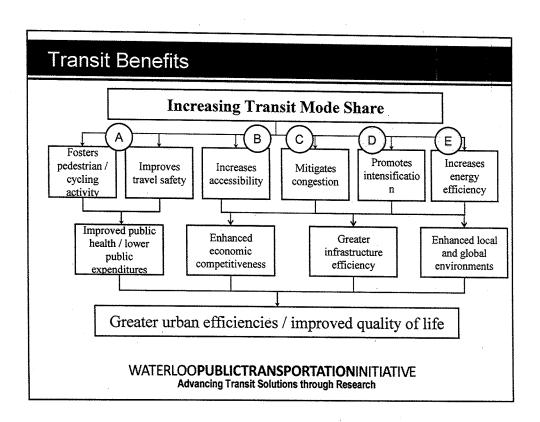
# WATERLOOPUBLICTRANSPORTATION INITIATIVE Advancing Transit Solutions through Research

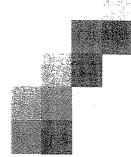
## Going Forward

#### **Concluding Remarks**

- ❖The socio-political climate is right
- ❖We'd love to help
- http://www.civil.uwaterloo.ca/WPTI
- ❖Thanks and Questions?

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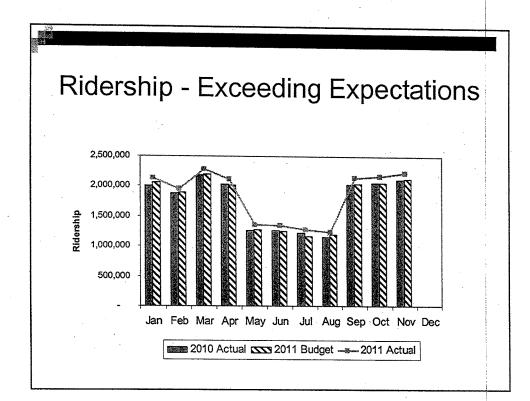


Conventional Transit
Passenger Riding and
Service Performance
Update



# Measuring Performance

- Quantity of Service
  - How much did we deliver?
- Quality of Service
  - How well did we deliver it?



# Service Levels

- Ridership is growing at 5% over 2010
- Service hours have increased by 2% over 2010

Ridership / Service Hrs = Rides per Service Hour

Year	Rides per Service Hour	% Change
2010	39.46	
2011	44.93	14%

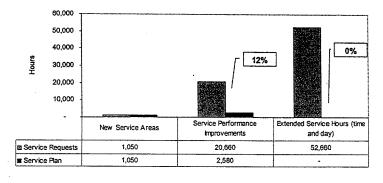
# The Challenge – Maintaining the Balance

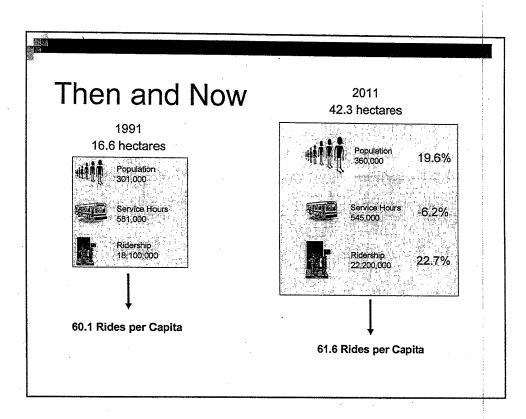
- Too much service
  - poor return on investment
- Too little service
  - increased incidents of overcrowding (133%)
  - increased issues with schedule adherence (88%)
  - increase incidents of missed passengers (116%)

# Addressing the Issues

Service is not meeting expectations

2011 Service Plan vs Requests





# Addressing the Issues

- Requirements to maintain and build ridership:
  - Increase current service frequency
  - Expand coverage/catchment area
  - Provide extended hours of service (time of day & day of week)
  - Add express bus services reduce travel time
  - Provide more direct routes reduce transfer requirements
- TMP 2030 and related Implementation Plan is expected to focus on transit

# Addressing the Issues

### ■ 2011 Measures

- Adjusted fleet makeup to increase 60' Articulated buses to help with overcrowding issues
- Provision of additional rush hour buses when possible

# ■ Future Measures

- Implementation of TDM initiatives
- Service reductions on poor performing routes to offset increases on high demand routes
- Increased service hours (excluding TMP implementation)