3RD REPORT OF THE

LTC LONG TERM GROWTH REPORT WORKING GROUP

Meeting held on November 18, 2015, commencing at 4:03 PM, Committee Room #4, Second Floor, London City Hall.

PRESENT: Councillor P. Squire (Chair); Councillors P. Hubert, M. Salih, and M. van Holst; D. Sheppard and J. Martin (Secretary).

ABSENT: Councillors J. Helmer and H. L Usher; and E. Southern.

ALSO PRESENT: J. Braam, A. Dunbar, J. Ford, K. Paleczny and E. Soldo.

I. CALL TO ORDER

1. Disclosures of Pecuniary Interest

That it BE NOTED that no pecuniary interests were disclosed.

II. SCHEDULED ITEMS

2. Rapid Transit Plan

That it BE NOTED that the attached presentation from E. Soldo, Director, Roads and Transportation, with respect to the Rapid Transit Plan, was received.

3. London Transit Service Plan Update

That it BE NOTED that the attached presentation from J. Ford, Director, London Transit Commission and K. Paleczny, General Manager, London Transit Commission, with respect to the London Transit Service Plan update, was received.

III. CONSENT ITEMS

4. 2nd Report of the LTC Long Term Growth Report Working Group

That it BE NOTED that the 2nd Report of the London Transit Commission Long Term Growth Report Working Group, from its meeting held on May 21, 2015, was received.

V. SUB-COMMITTEES & WORKING GROUPS

None.

VI. ITEMS FOR DISCUSSION

None.

VII. DEFERRED MATTERS/ADDITIONAL BUSINESS

None.

VIII. CONFIDENTIAL

None.

IX. ADJOURNMENT

The meeting adjourned at 5:15 PM.

Next Meeting Date – TBD

shift
MOVING LONDON FORWARD

Our Rapid Transit Initiative

STRATEGIC PRIORITIES AND POLICY COMMITTEE

NOVEMBER 9, 2015

London CANADA

Context

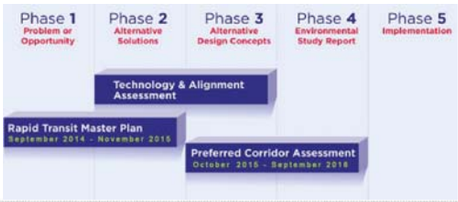
- Rapid Transit is the primary recommendation of the Smart Moves Transportation Master Plan (TMP), a cornerstone of the (draft) London Plan, and a key feature in Council's 2015-2019 Strategic Plan.

THELONDONPLAN

- Rapid Transit along with a complimenting land use strategy will facilitate greater mode shifts towards alternative transportation modes, helping to reduce traffic congestion and make transit a convenient, comfortable, and reliable travel option for residents.

Process

- The Rapid Transit Environmental Assessment (EA) is being undertaken to create a Rapid Transit Master Plan that adheres to the legislative requirements of the Environmental Assessment Act.
- The RT EA is progressing towards the stage of determining a preferred RT system and a network alternative based on a technology.

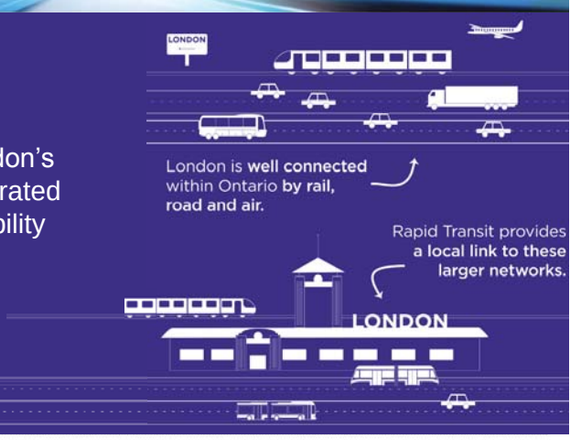


Rapid Transit Environmental Assessment

Problems and Opportunities

- Growing Congestion
- Transit Travel Times / Service Frequencies
- Growth Management
- Land Use and Density
- Existing Transit Ridership and Growth
- Commuter Travel Habits
- Catalyst for Change

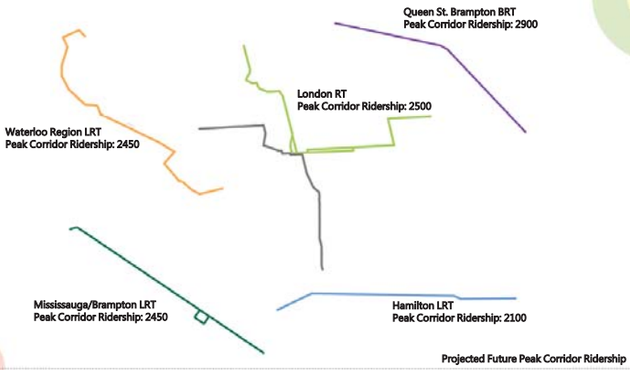
London's Integrated Mobility



London is Canada's largest region without Rapid Transit

. . . and carries more riders per capita than comparable cities

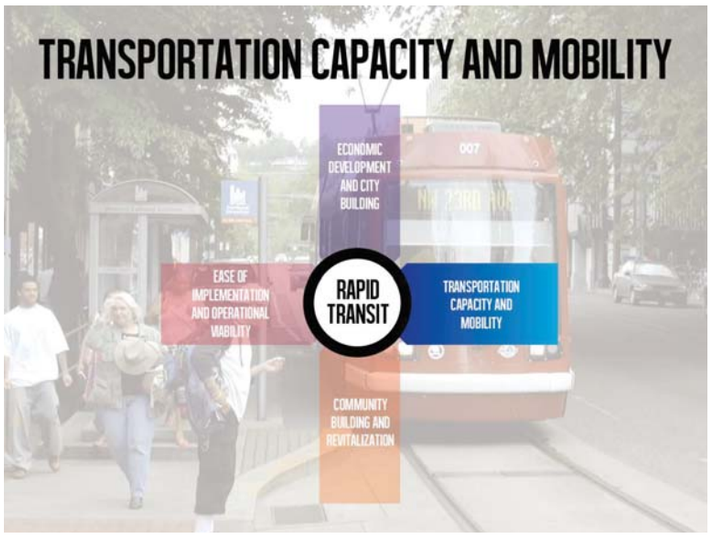
Rapid Transit System Comparisons



Rapid Transit Guiding Principles

THELONDONPLAN

EXCITING. EXCEPTIONAL. CONNECTED.



TRANSPORTATION CAPACITY AND MOBILITY

- Place new emphasis on creating attractive transportation choices
- Place new emphasis on creating attractive transportation choices
- Connect London to the surrounding region
- Become one of the greenest cities in Canada

COMMUNITY BUILDING AND REVITALIZATION

- Building strong and attractive neighbourhoods for everyone
- Planning for exceptional spaces and places
- Regenerating our urban neighbourhoods and main streets

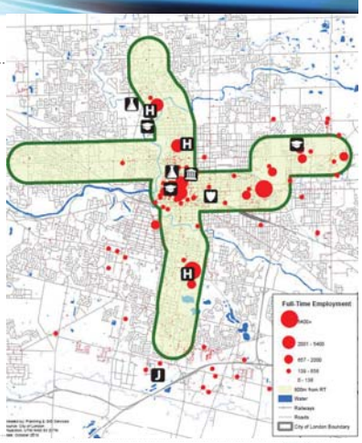
ECONOMIC DEVELOPMENT AND CITY BUILDING

ECONOMIC DEVELOPMENT AND CITY BUILDING

- Shaping our City around rapid transit
- Catalyst for development
- Growing inward and upward
- Downtown investment
- Build a mixed-use compact city
- Planning a smart city
- Building a city to attract talent and investment

Full-Time Employment

An 800-metre buffer from proposed RT corridors encompasses approximately 65% of all full-time employment in London.



EASE OF IMPLEMENTATION AND OPERATIONAL VIABILITY

Public Engagement

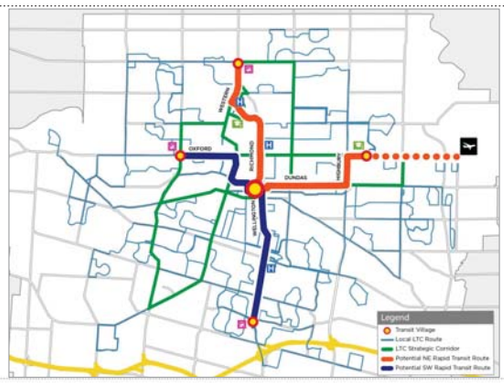
Public Engagement Initiative

- Over 50 events so far; 12,500 contacts
- Over 1,500 followers on Twitter, Facebook and YouTube
- Presentations to stakeholder groups
- Pop-up booths at public events
- MetroQuest Survey – 1,200 people submitted responses. Project eNewsletter
- Project Website

The top priorities for Rapid Transit are:

1. Fast travel time
2. Frequency
3. Walkable communities
4. Capital and Operating Costs
5. Coverage Area
6. Minimize Transfers
7. City Image
8. Comfortable Ride

Preliminary Recommended Corridors



Western University

Route alternatives through the Campus area

Potential Alignment: RT along University Drive and Middlesex Drive

Rapid Transit Technologies

Common Characteristics of Rapid Transit Technologies

- Frequent service along the RT corridors, allowing riders to use the service without needing to consult a schedule
- Express Service – Fewer stations – Stations located at major trip generators
- Dedicated lanes for rapid transit, physically separated from other traffic where feasible.
- Programed traffic signals to prioritize the movement of rapid transit vehicles
- Enhanced stations: Stations with larger, more prominent waiting areas, shelters, seating, bike racks, ticket vendors.

Network Alternatives

Base BRT

- Similar to Transportation Master Plan BRT alternatives
- No major capital works (Richmond Street tunnel and University Avenue bridge)
- BRT vehicles run in mixed traffic on Wellington Street between Baseline Road and Downtown

Full BRT

- Adds major structural projects, including a Richmond Street Tunnel under the CP Rail line and the bridge over the North Thames on University Drive to maximize transit operating speeds

Hybrid

- Same major structural projects as the Full BRT alternative
- Incorporates LRT along the preferred north and east corridors via downtown with BRT along the south and west corridors.

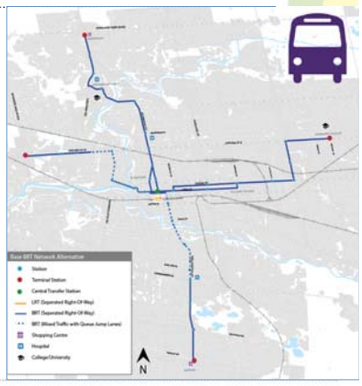
Full LRT

- This alternative incorporates a semi-exclusive LRT system along the entirety of the preferred RT route.

Network Alternatives – Base BRT

Characteristics

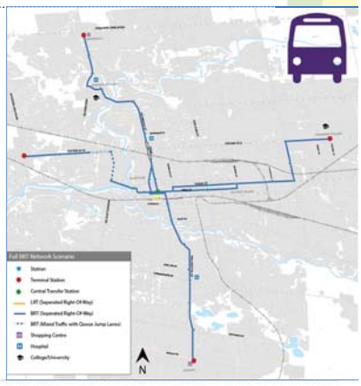
- **19** km of BRT along a semi-exclusive right-of-way
- **4.6** km of BRT in mixed traffic
- **31.4** million riders/year by 2035
- **$270** million capital cost
- **$13.8** million/year O+M costs
- **840,000** transit travel hours saved
- **12** million auto vehicle km saved
- Moderate potential impact on City Building and Social Community



Network Alternatives – Full BRT

Characteristics

- **22** km of BRT along a semi-exclusive right-of-way
- **1.6** km of BRT mixed traffic
- **31.6** million riders/year by 2035
- **$500** million capital costs
- **$12.2** million/year O+M costs
- **985,000** transit travel hours saved
- **12.9** million auto vehicle km saved
- Moderate potential impact on City Building and Social Community



Network Alternatives - Hybrid

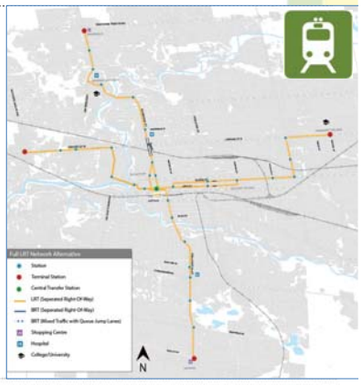
Characteristics

- **13.2** km of LRT along a semi-exclusive right-of-way
- **9** km of BRT semi-exclusive lanes
- **1.6** km of BRT in mixed traffic
- **32** million riders/year by 2035
- **$880** million in capital costs
- **$11.1** million/year in O+M costs
- **1,170,000** transit travel hours saved
- **14.7** million auto vehicle km saved
- High potential impact on City Building and Social Community

Network Alternatives – Full LRT

Characteristics

- **23.7** km of LRT along a semi-exclusive right-of-way
- **32.1** million riders/year by 2035
- **$1,150** million in capital costs
- **$11.5** million/year in O+M costs
- **1,226,000** transit travel hours saved
- **15.1** million auto vehicle km saved
- Highest potential impact on City Building and Social Community



Network Comparison

Criteria	Base BRT	Full BRT	Hybrid	Full LRT
Capital Cost	●	◔	◐	◕
Operating Cost	◐	◐	◐	◐
Economic Development and City Building	◐	◔	●	●
Transportation Capacity and Mobility	◐	◔	◔	◔
Community Building and Revitalization	◐	◔	●	●
Ease of Implementation and Operational Viability	●	◔	◐	◐

Base BRT, Full BRT, and Hybrid are viable rapid transit solutions and an enhancement to the current transit system.

Benefits Case

Description	Base BRT	Full BRT	Hybrid	Full LRT
COSTS - FINANCIAL ACCOUNT				
Capital Costs (CAPEX)	$ 280	$ 497	$ 880	$ 1,142
Operating Costs to 2049	$ 370	$ 319	$ 287	$ 252
Total Costs	$ 650	$ 816	$ 1,167	$ 1,394
BENEFITS - AGENCY				
Additional Fares	$ 84.65	$ 90.88	$ 103.33	$ 106.45
BENEFITS - TRANSPORTATION USERS				
Auto User Time Savings	$ 112	$ 114	$ 114	$ 119
Transit User Time Savings	$ 292	$ 344	$ 409	$ 429
Auto Operating Cost Savings	$ 38	$ 41	$ 47	$ 48
Safety Savings	$ 22	$ 23	$ 27	$ 28
Sub-total	$ 465	$ 523	$ 597	$ 623
SUMMARY				
Total Costs (2015 $)	$ 650	$ 816	$ 1,167	$ 1,394
Total Benefits Transportation User and Agency Benefits(2015 $)	$ 550	$ 614	$ 700	$ 730
Benefit - Cost Ratio	0.85	0.75	0.60	0.52
SOCIAL BENEFITS - ENVIRONMENTAL				
GHG Emissions Savings	$ 2.03	$ 2.18	$ 2.47	$ 2.55
SOCIAL BENEFITS - ECONOMIC DEVELOPMENT				
Short Term GDP Gains	$ 123	$ 227	$ 399	$ 520
Long Term GDP Gains	$ 16	$ 14	$ 12	$ 13
Land Value Uplift	$ 80	$ 90	$ 110	$ 115
Total Social Benefits	$ 221.1	$ 333.3	$ 523.1	$ 650.5
Benefit-Cost Ratio including Social	1.19	1.16	1.05	0.99
City Building and Social Community (City Image, Urban Regeneration Benefits, Catalyst for Development)	✔	✔✔	✔✔½	✔✔✔

Preliminary Preferred Network Characteristics

- A city-wide rapid transit long term solution that is scalable in implementation
- High quality stations and corridors
- Grade separation of rapid transit from freight rail lines (Richmond Street tunnel under the CP Rail line) to limit delays
- A semi-exclusive LRT line in the highest demand corridors (North and East)
- A semi-exclusive BRT line in the lower demand corridors (South and West)
- A supporting network of feeder buses providing direct access to the rapid transit corridors

Potential Cross Sections Visuals

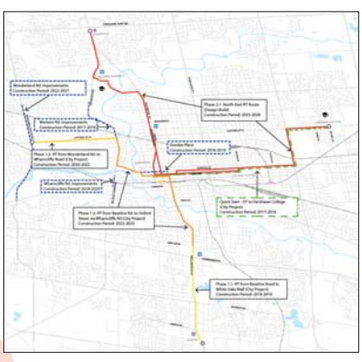
Potential Cross Sections Visuals

Potential Cross Sections Visuals

Potential Cross Sections Visuals

Potential Cross Sections Visuals

Potential Project Phasing (subject to funding)



Project	Year
Rapid Transit Projects	
Quick Start	2017-2018
Wellington Street, South of Baseline Road	2018-2019
Oxford Street West	2020-2022
Wharncliffe Road	2022-2023
Wellington Street, North of Baseline Road	2022-2023
North-East RT Route	2023-2026
Related Improvements to the Road Network	
Western Road	2017-2019
Dundas Place	2018-2019
Wonderland Road	2022-2027

Rapid Transit Funding

- The new federal government has promised to investment in significant improvements to public transit across Canada
- The Province plans to allocate $15 billion dollars in public transit projects outside of the GTHA as part of the *Moving Ontario Forward* initiative
- Projects outside of the GTHA have been funded through 1/3 partnerships with the Province and Federal governments as the projects are municipally driven, owned and operated.
- City of London *Moving Ontario Forward* submission – Funding up to $1.1 billion for Rapid Transit, work together to select the right option

Rapid Transit Summary

- The City of London's financial commitment of approximately $125 million for Rapid Transit implementations, combined with an investment from provincial and/or federal government, will facilitate significant social, economic, and environmental benefits for London and Southwestern Ontario
- Final recommended rapid transit solution and implementation will be scalable based on available funding envelopes and financial affordability
- The Hybrid (BRT/LRT) network alternative will be utilized as the preliminary preferred alternative for funding dialogue and the basis for the next round of community engagement and public input for the Rapid Transit Environmental Assessment.

5 Year Service Plan

Route Review – 5 Year Service Plan

Guiding Principles

- Add capacity to busy routes that experience chronic overcrowding
- Improve weekend and late evening service
- Simplify the network
- Continue to build on existing Express Routes and identify new opportunities
- Identify a Frequent Transit Network as a Catalyst for Ridership Growth
- Address Underperforming Routes and Route Segments and ‘Right-size’ the system
- Enhance connections to future Rapid Transit network

5 Year Service Plan

2015 Service Changes

- Changes intended to address route performance issues – overcrowding, schedule adherence, duplication and poor economic performance, additional weekend service and new Semi-express route on Adelaide corridor
- Implemented in early September and late November
- Added approx. 17,000 annual service hours to the system

5 Year Service Plan

2015 Key Changes

- 92 Semi-express on Adelaide corridor
- 91 Semi-express added weekday peak service during spring and summer periods
- Improved/Additional Sunday services
- Eliminate Route 24 from east of Victoria Hospital and extend route west to North Talbot community

5 Year Service Plan

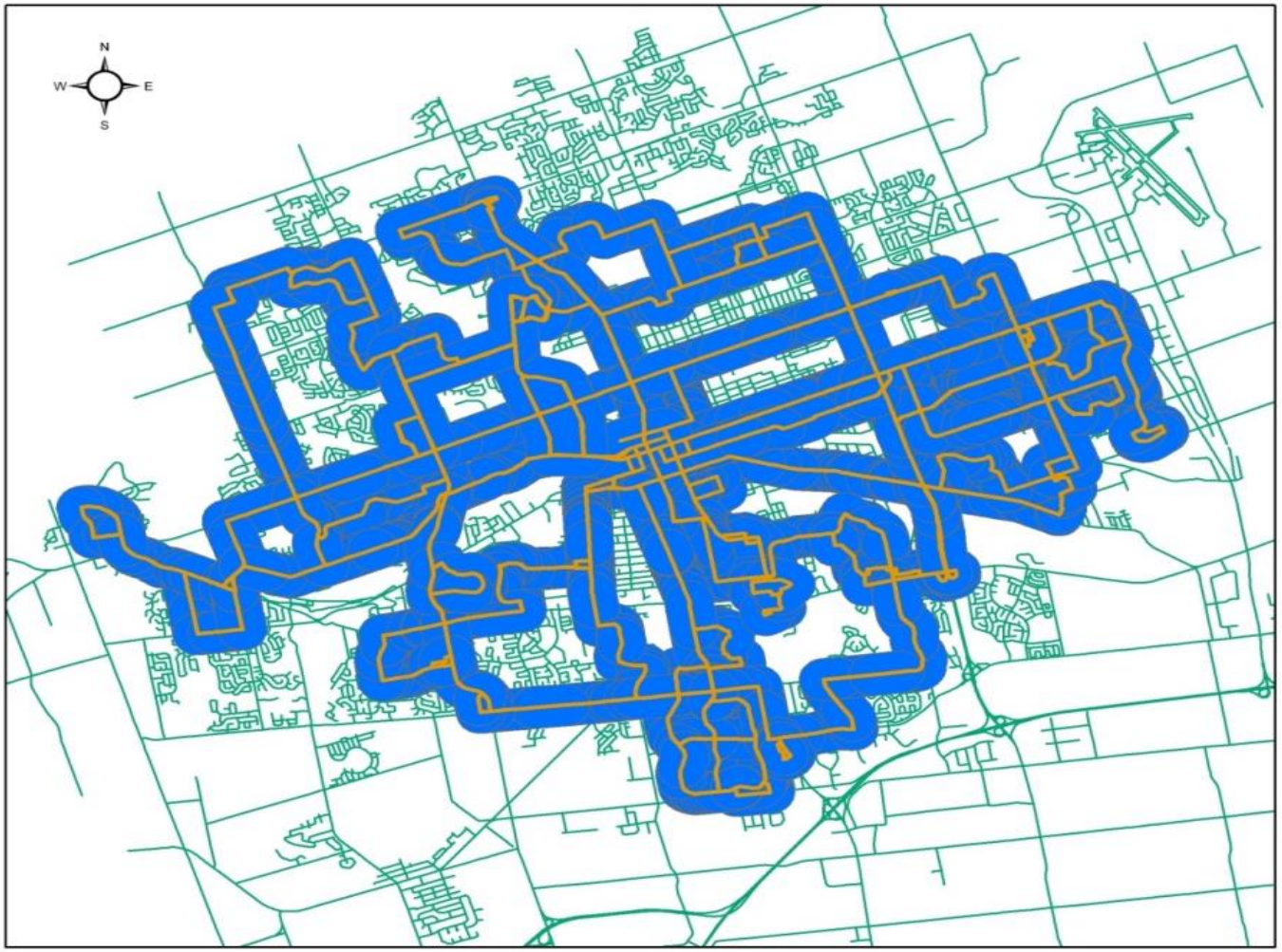
2015 Key Changes

- Early indications the changes have been well received
- 92 Semi-express ridership performing quite well
- Over the upcoming months, additional counts and assessments of the changes will be undertaken

2016 Draft Service Plan

- The 2016 draft service plan is consistent with the Route Structure Review document recommendations for 2016
- 2016 draft plan will impact approximately **54,000** hours of which 17,700 are new

2016 Service Plan - Affected Areas of London



Legend

- Routes Affected by 2016 Service Plan
- 400m Buffer of Proposed 2016 Route Modifications
- London Street Network

2016 Draft Service Plan

- Due to the large number of changes proposed for 2016, the timing for the service planning process has been amended to present the draft plan in September with final plan scheduled for January 2016
- This timing change will allow for adequate time to implement changes for September 2016

2016 Draft Service Plan

- Draft Changes for 2016 include:
  - Enhanced Weekend service
  - Enhanced Weekday service (both peak and off-peak)
  - Improved connections between nodes- i.e. route 3 Hamilton Road extended to Argyle Mall
  - Optimized service levels to “right size” the overall transit system

2016 Draft Service Plan

- Status
  - Series of 10 public meetings to receive input to the proposed changes (5 held to-date)
  - Information on website (750 surveys completed to-date)
  - Promotion of changes and public meetings
    - On-board
    - Website
    - Newspaper
    - Radio
    - Social media
    - Copy of report to all members of Council
  - Further assess priorities for final recommendations

2016 Draft Service Plan

Questions?