

National Capital Heavy Construction Association
January 15, 2018

O-Train Light Rail Transit Stage 2 Look Ahead

John Manconi, General Manager
Transportation Services Department
City of Ottawa





Current
Bus, Para, Trillium Line

2018
Bus, Para, Trillium and
Confederation Line



In 2018...

- **Ottawa's 30 year old Bus Rapid Transit system will be converted to Light Rail and enter revenue service;**
- **First Bus Rapid Transit (BRT) conversion to Light Rail; and,**
- **Opening of busiest Light Rail Transit (LRT) in North America; approximately 11,000 pph/d during peak periods.**

5

The Need

- **Ottawa's population is projected to grow 30% by 2031;**
- **Public transportation is already at capacity in the downtown core;**
- **Highways near capacity;**
- **Every new bus added in the downtown slows our existing BRT; and,**
- **Ottawa's prosperity depends on moving people more efficiently.**

6

Ottawa's Transit Challenge

Ottawa residents
take **transit**, on average



125
times annually
That's more than residents in
any city of comparable size in
North America



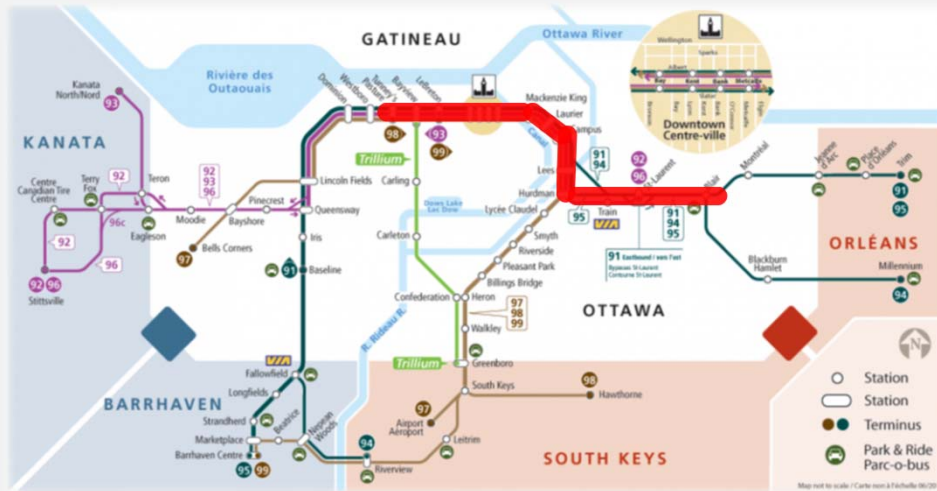
Without the LRT
tunnel we would
need to send
an articulated bus
down through the
downtown at the

impossible rate of
**1 every
18 seconds**
in order to meet the demand
expected by 2031.

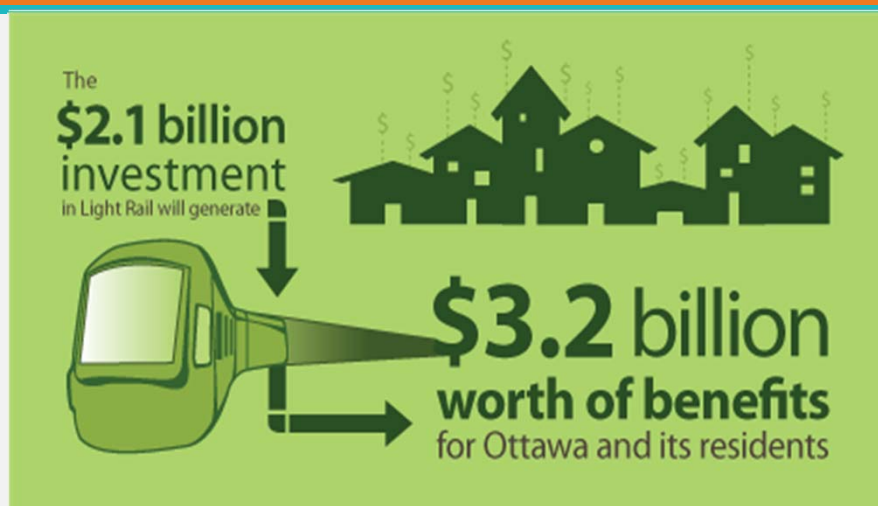
Transportation Master Plan



Conversion to LRT - Stage I

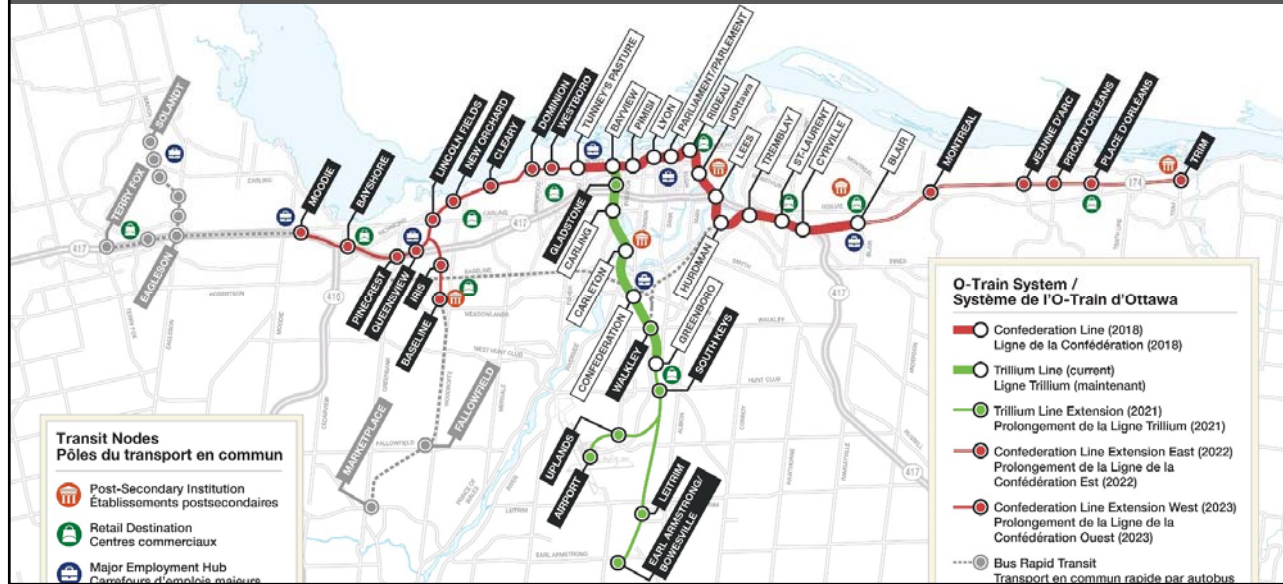


Project Benefits – Stage 1

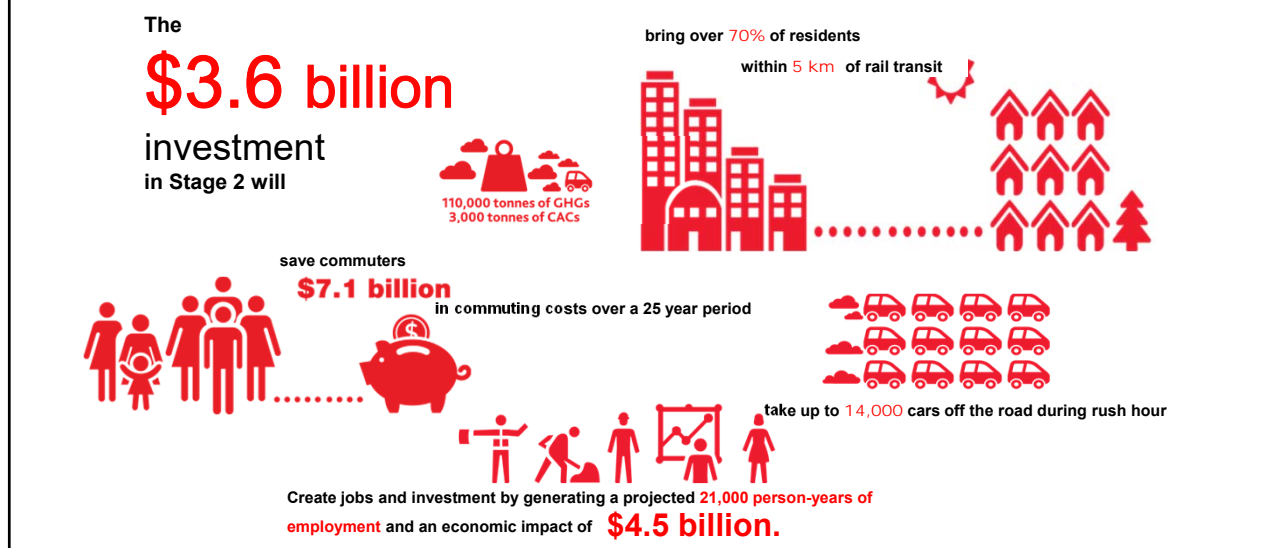


(economic, environmental and operational savings)

Stage 2



Project Benefits – Stage 2



Trillium Line South

- **Extending the existing Trillium Line from Greenboro to Earl Armstrong/Bowesville in Riverside South;**
- **Spur line to the Ottawa Macdonald-Cartier International Airport;**
- **Additional 12km of rail and seven stations – at Gladstone, Walkley, South Keys, Uplands, Airport, Leitrim and Earl Armstrong/Bowesville;**
- **An new Maintenance and Storage Facility at Walkley Yard;**
- **Increased Park and Ride capacity at Leitrim and Earl Armstrong/Bowesville;**
- **Enhanced pathway network by adding a parallel multi-use pathway along the length of the extension; and,**
- **Revenue Service planned for 2021**

Confederation Line East

- **Extension of the Confederation Line East from Blair Station to Trim Road;**
- **Additional 12.5 km of rail and five stations – at Montréal Road, Jeanne d’Arc, Orléans Boulevard, Place d’Orléans and Trim;**
- **New pedestrian and cycling connectivity; and,**
- **Revenue Service planned for 2022.**

Confederation Line West

- **Extension of Confederation Line West from Tunney's Pasture to Moodie and Baseline Stations;**
- **Additional 15 km of rail and 11 stations – at Westboro, Dominion, Cleary, New Orchard, Lincoln Fields, Iris, Baseline, Queensview, Pinecrest, Bayshore and Moodie;**
- **An anticipated Light Maintenance and Storage Facility at Moodie Drive;**
- **Provide opportunities to maximize cycling connections at stations; and,**
- **Revenue Service planned for 2023.**

Bundled Projects – Stage 2

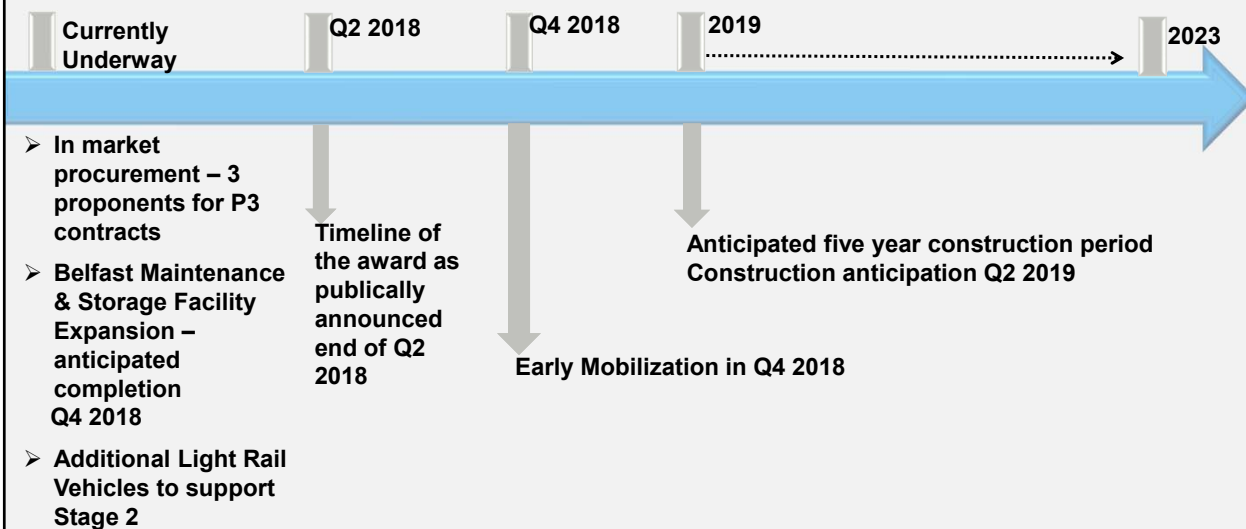
- **Other infrastructure projects have been identified for bundling with the Stage 2 LRT procurement to benefit from the cost-compression and fixed-price structure of the procurement model, and minimize disruptions to adjacent communities;**
- **Bundled projects included in the Stage 2 package that will be confirmed with contract award in 2018 include:**
 - **Ministry of Transportation's Highway 417 expansion project from Maitland Avenue to Highway 416 with Stage 2 LRT construction; and,**
 - **Approximately 20 City projects.**

City Bundled Projects – Stage 2

Examples of Recommended City Bundled Projects

- Upgrades to Storm and Sanitary Sewers at Byron Avenue and Woodroffe Avenue
- Upgrade to the Shefford Road Watermain Crossing of Highway 174
- Woodroffe Storm Water Management Pond
- Lawn Avenue Parkette Enhancement
- Rock Wall Stabilization along the West Transitway trench between Tunney's Pasture and Sir John A. Macdonald Parkway
- Jeanne D'Arc Boulevard Bridge Rehabilitation
- Richmond Road Complete Streets (Cleary Avenue to Berkeley Avenue)
- Rideau River Bridge Rehabilitation
- Greens Creek Culvert Replacement
- Dow's Lake Tunnel Rehabilitation
- Hwy 174 Various Culvert Replacements
- Existing Trillium Line Station Upgrades
- Highway 174 Concrete Base Removal

Stage 2 Timeline



O-Train Light Rail Transit Stage 2 Look Ahead

**John Manconi, General Manager
Transportation Services Department
City of Ottawa**

