

# The Olympic Line Experience: A Demonstration of the Downtown Streetcar

- Outline:
- Host City Transportation Context
- Vision for a Downtown Streetcar
- Decade of Streetcar Planning
- Realizing a Demonstration Project
- Operating a Railway for 60 Days
- The Olympic Line Experience
- Ridership Data & Public Response
- Awards & Next Steps

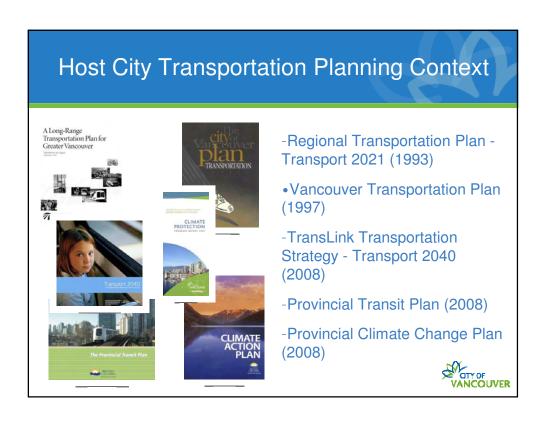
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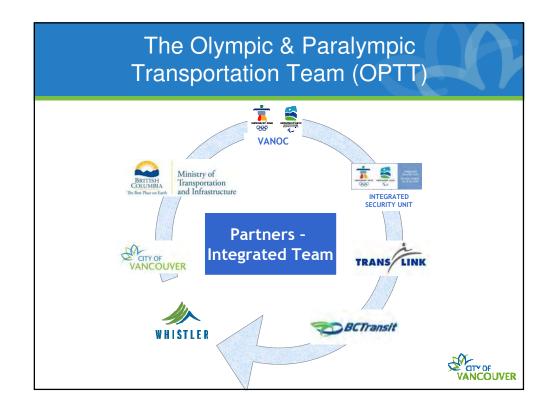
Dale Bracewell, P.Eng. Director, Olympic Transportation City of Vancouver

Streetcars: A Missing Link Vancouver, BC September 29th, 2010

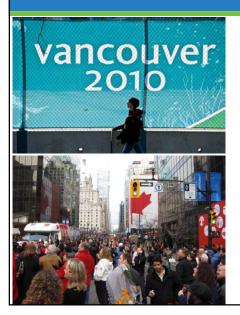
Engineering Services - Olympic Transportation







# Host City Olympic Transportation Goals



- A Successful Olympic Games
- A Functioning Urban City
- A Sustainable Olympic Games
- A Lasting Transportation Legacy



# Host City Transportation Challenges

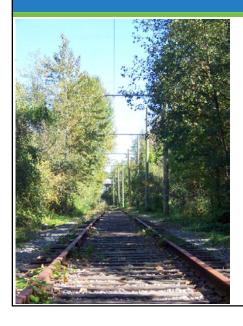




- Increased Travel
   Demand
  - Largest event ever in Vancouver's history
- Reduced Road Capacity
  - A new transportation system sharing our road network

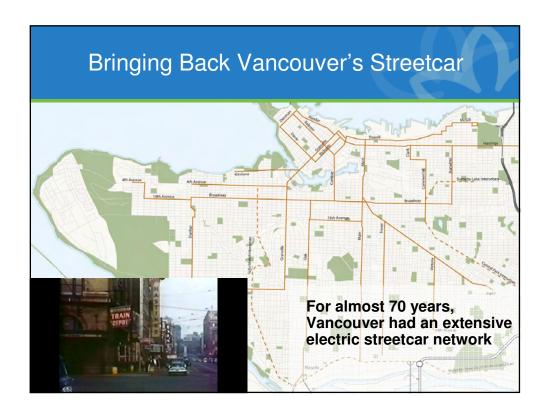


# The Olympic Line Vancouver's 2010 Streetcar



- Demonstration of modern streetcar service as a showcase project
- Free reliable and accessible public transit between Olympic Village Canada Line station and Granville Island
- Operational from January 21st to March 21st, 2010





### Vision for a Downtown Streetcar

- Modern, high quality, fully accessible transit system
- To support land-use Downtown with less need for vehicles
- Fully integrated with the regional public transportation network





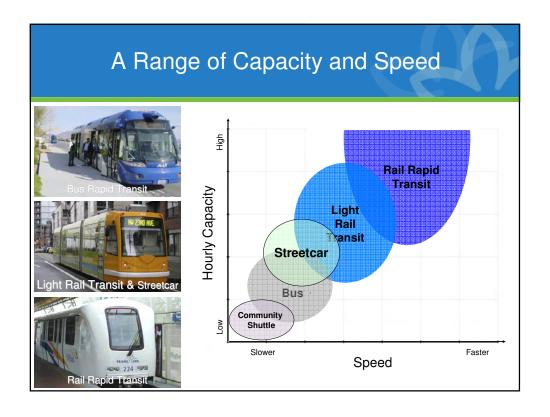


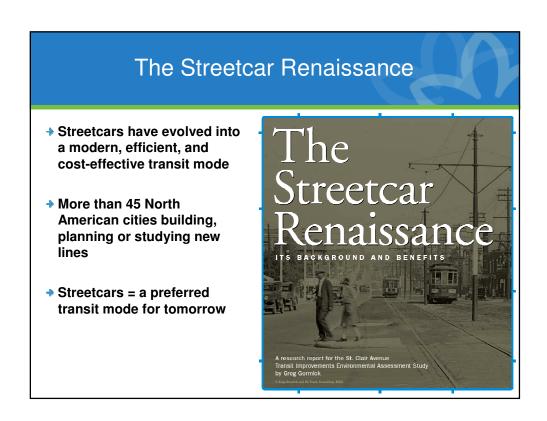
## Why a Downtown Streetcar?

- → Longer life span & lower operating costs
- → Promotes neighbourhood development and street life
- → Benefits more than just transit users
- → Flexible design & improves public space





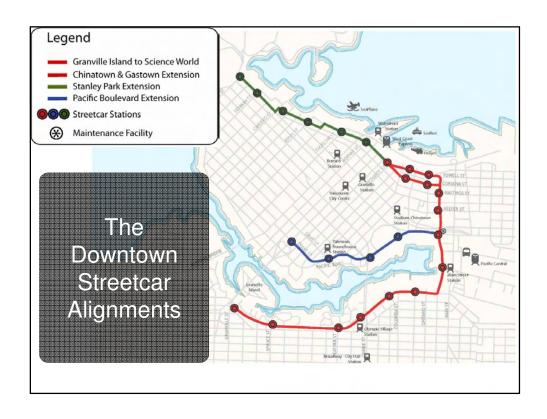




# Vancouver Streetcar Feasibility Study

- ◆ In 1996, the City purchased the rail right-of-way to Granville Island
- ◆ In 1998, the Downtown Historic Railway (DHR) operations began
- ◆ In 1999, the Vancouver Streetcar Feasibility Study was completed







- A long term network of transit services to serve Vancouver
- Expanding rapid transit to serve Central Broadway still the priority





## Benchmarking & Market Research Studies

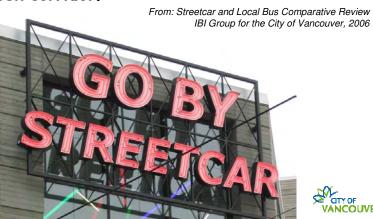
- → Key findings highlighted:
  - → Importance of some dedicated sections
  - → High levels of ridership should be attainable
- →San Franciso F-Line
  - →8 kilometres with 20,000 riders per day, tourist appeal





## Why Streetcars & Local Buses Both Work

"In summary, there are numerous benefits from a streetcar service that support its implementation in a well-chosen corridor."



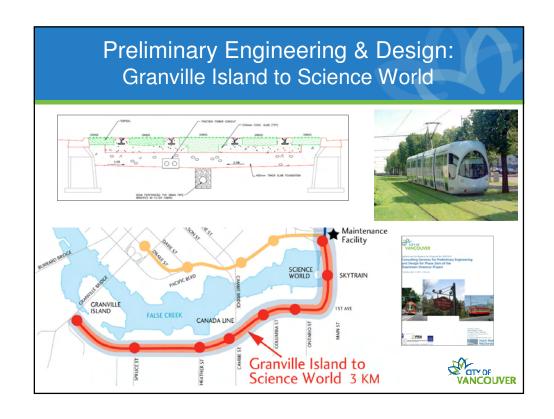


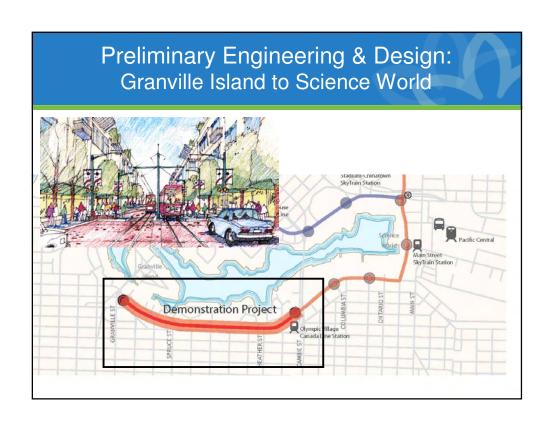
### Design, Layout, & Ridership Study

- →Track alignments and operational plans
- →Street perspectives of key locations
- → Ridership forecasting update
- →2021 Daily Boardings = 25,000 to 35,000
- → 2021 Annual Boardings = 7.2 to 10.0 million











# Olympic Line: Investment Partners



# **BOMBARDIER**

Provision of track infrastructure & maintenance

Provision of 2 FLEXITY vehicles & O&M services





Canada Mortgage & Housing Corporation (CMHC) Funding for infrastructure Brussels Transport Company (STIB) Loan of 2 FLEXITY vehicles





# Transporting the Olympic Line Streetcars



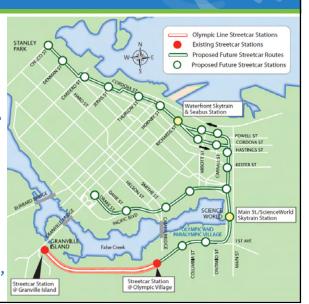
# The Olympic Line Streetcar - Interior Design

- →Uses materials such as wood, stainless steel and leather
- → Comfortable, large windows, low noise, air conditioning



# Olympic Line Operational Data

- → Free transit service:
  - 18 hours per day
  - 7 days per week
- → 2 streetcars single track with passing lane
- → 2 stations Granville Island & Canada Line
- → 1.8 km of new track infrastructure
- → 7-minute peak period headways
- → 1,500 passengers/hour, per direction



### The Olympic Line Operations Team

- City of Vancouver & Bombardier Project Management
- Hatch Mott MacDonald Design Consultants
- Bombardier Vehicle Provider
- PNR RailWorks Trackwork Contractor
- Mott Electric Power Systems Contractor
- City of Vancouver Signals and Traffic Management
- Bombardier Operations Staff Vehicle and Overall O&M
- City Operations Staff Wayside O&M
- Volunteer Streetcar Operators TRAMS
- City Host City Team Platform Attendants
- BC Safety Authority Regulating Authority









# If you didn't get a chance to ride the Olympic Line - Vancouver's 2010 Streetcar...

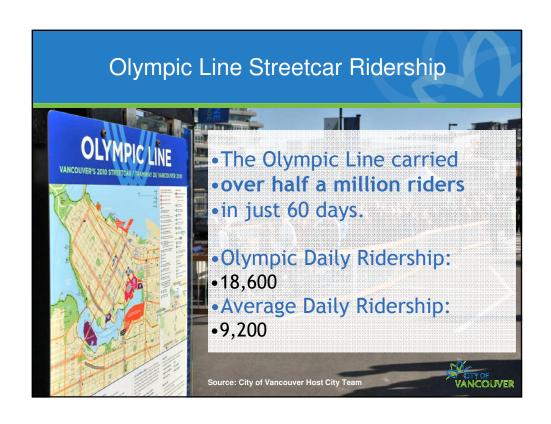


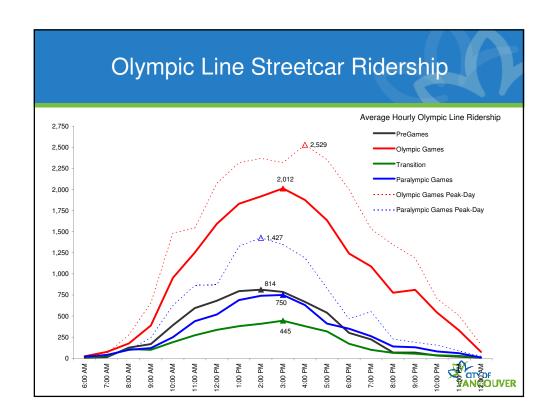




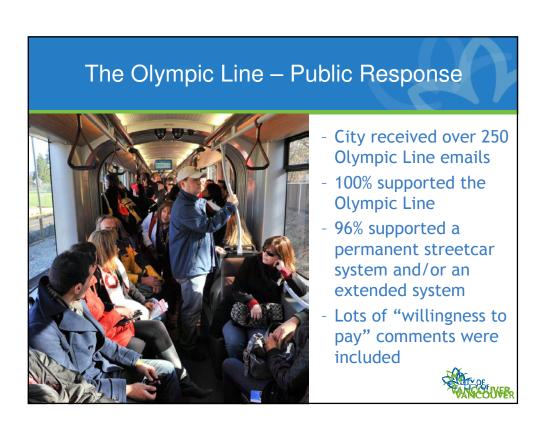












## The Olympic Line - Awards





- Vancouver 2010 Winter Games Sustainability Star
- Canadian Urban Transit
   Association (CUTA) 2010
   National Transit Corporate
   Recognition Awards Exceptional
   Performance/Outstanding
   Achievement Award
- American Public Transit
   Association (APTA) 2010
   Adwheel Awards PR/Awareness
   Special Event 1st Place

# The Downtown Streetcar - Next Steps



- A successful demonstration but more work to be done
- Will require new partnerships
- The City continues to preserve rights-of-way
- Seeking opportunities to move the project forward
- More information at:
- vancouver.ca/streetcar

